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(51) INT CL<sup>7</sup>  
**G06F 17/60**

(52) UK CL (Edition T )  
**G4A AUXF**

(56) Documents Cited

<b>EP 0902381 A2</b>	<b>WO 99/49404 A1</b>
<b>WO 01/63528 A1</b>	<b>WO 01/48643 A1</b>
<b>WO 01/16768 A1</b>	<b>WO 01/11513 A1</b>
<b>WO 00/75843 A1</b>	<b>WO 00/04476 A1</b>

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(58) Field of Search  
UK CL (Edition T ) **G4A AUXF**  
INT CL<sup>7</sup> **G06F 17/00 17/60**  
Online: **WPI, EPODOC, JAPIO**

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**Harlan Hamlin**  
**John Choi**  
**Vladimir Bulkin**

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**Mark Newmister**  
**Michael Glick**

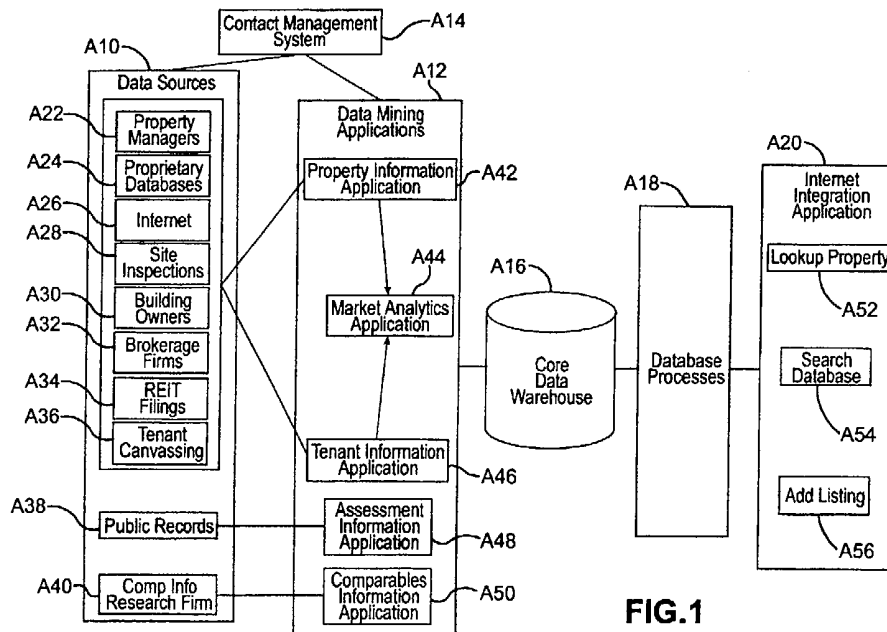
(74) Agent and/or Address for Service

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**Forrester House, 52 Bounds Green Road, LONDON,**  
**N11 2EY, United Kingdom**

(54) Abstract Title

**Real estate trading on internet**

(57) A web-based marketplace facilitates the efficient and secure buying and selling of commercial properties. It facilitates mortgage lending and provides enough information to allow lenders to underwrite a property. A mobile data gathering and dissemination vehicle provides data and receives data relevant to vehicle position in real time.



**FIG. 1**

At least one drawing originally filed was informal and the print reproduced here is taken from a later filed formal copy.

This print incorporates corrections made under Section 117(1) of the Patents Act 1977.

**GB 2 367 160 A**

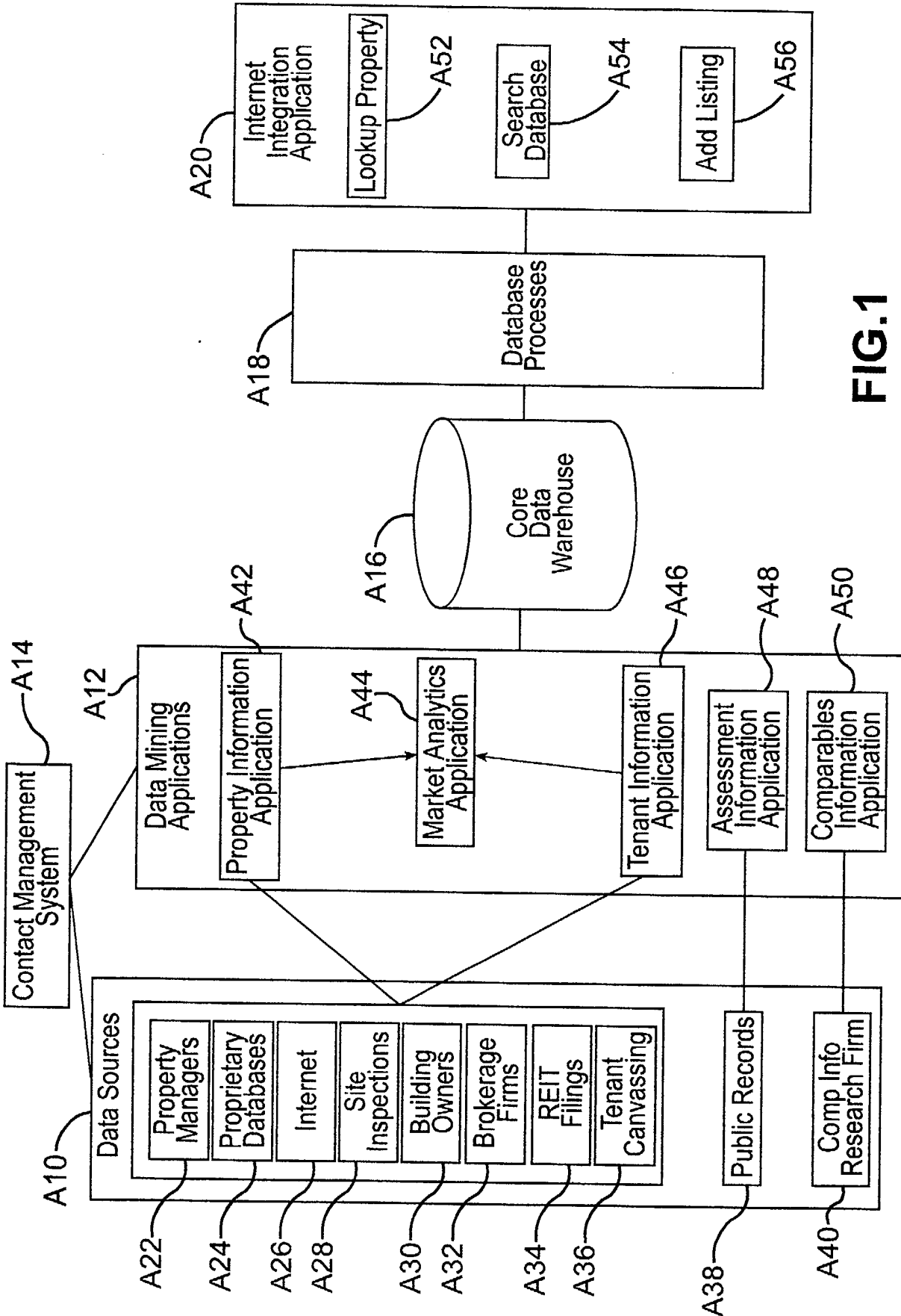
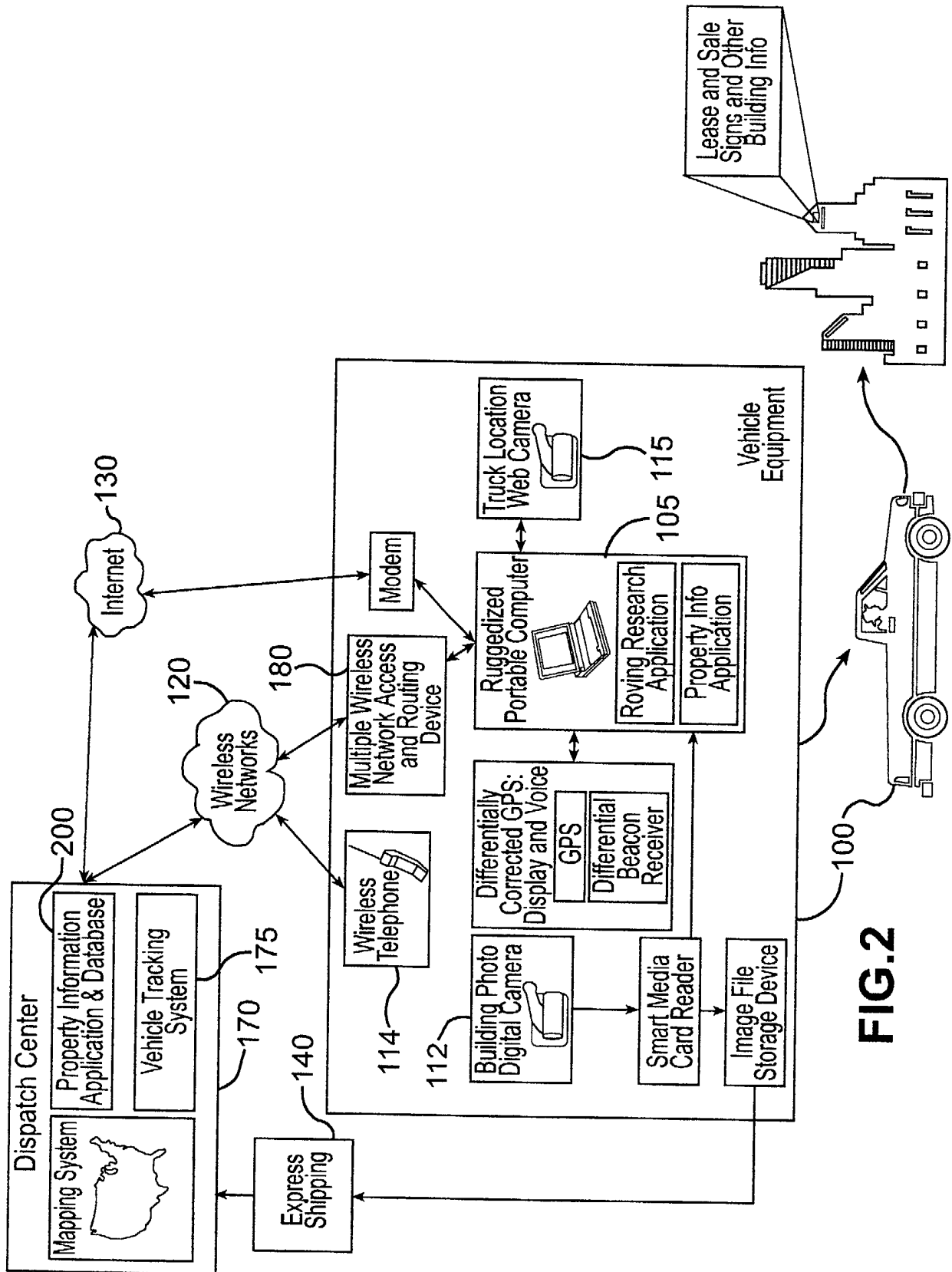
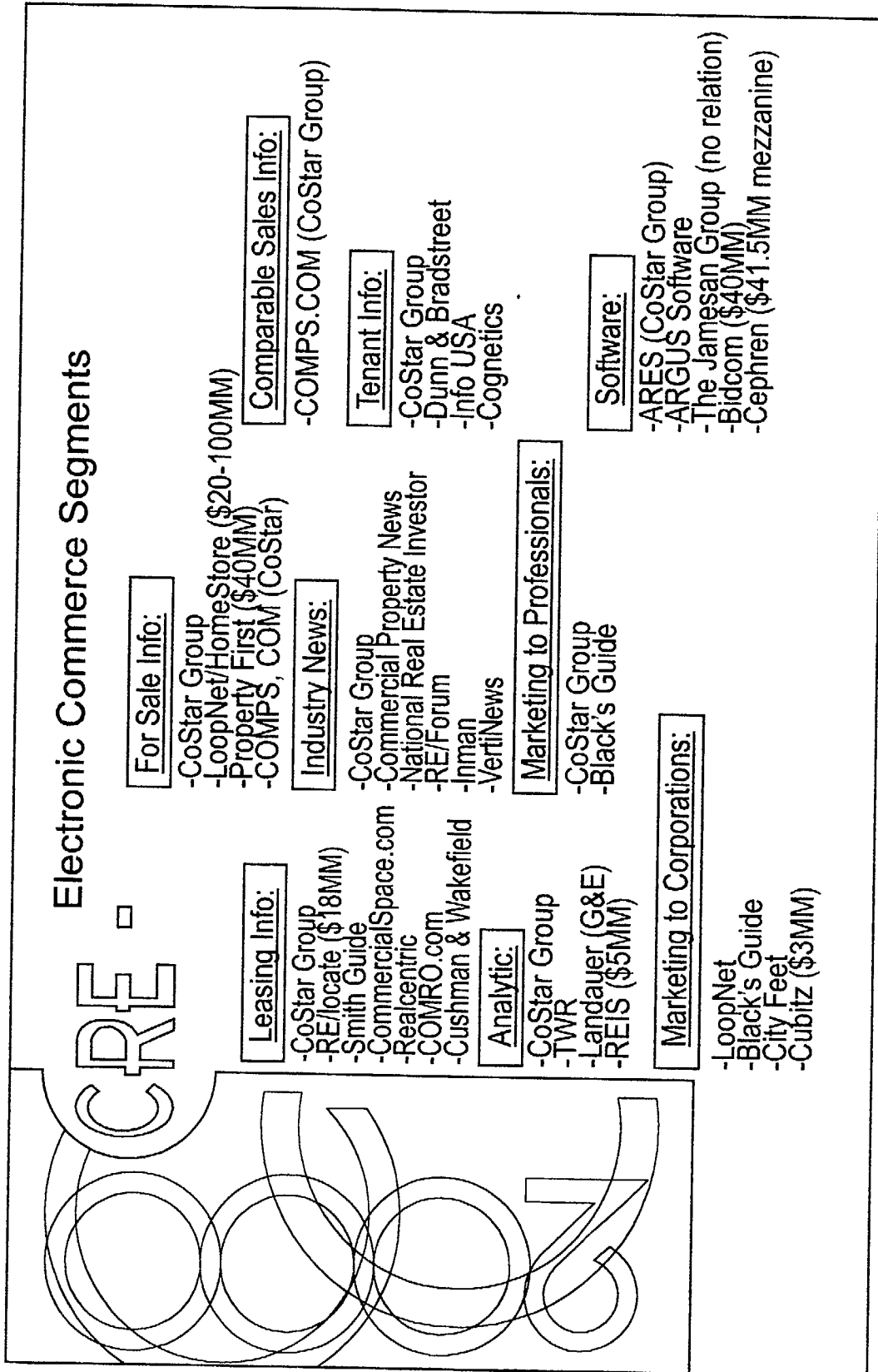


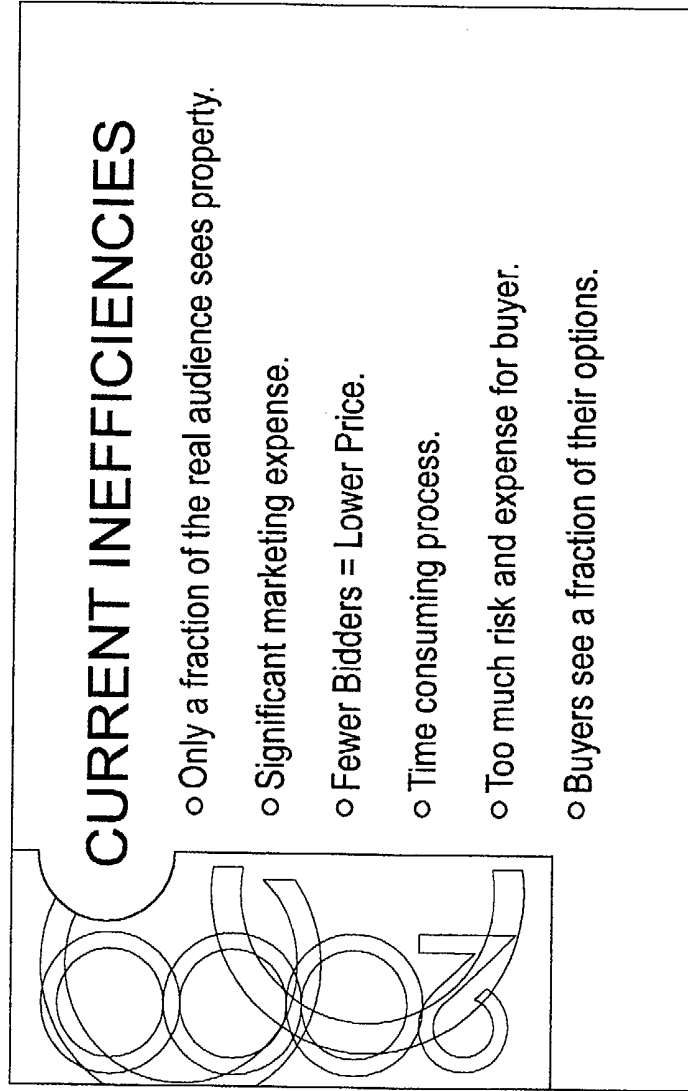
FIG.1



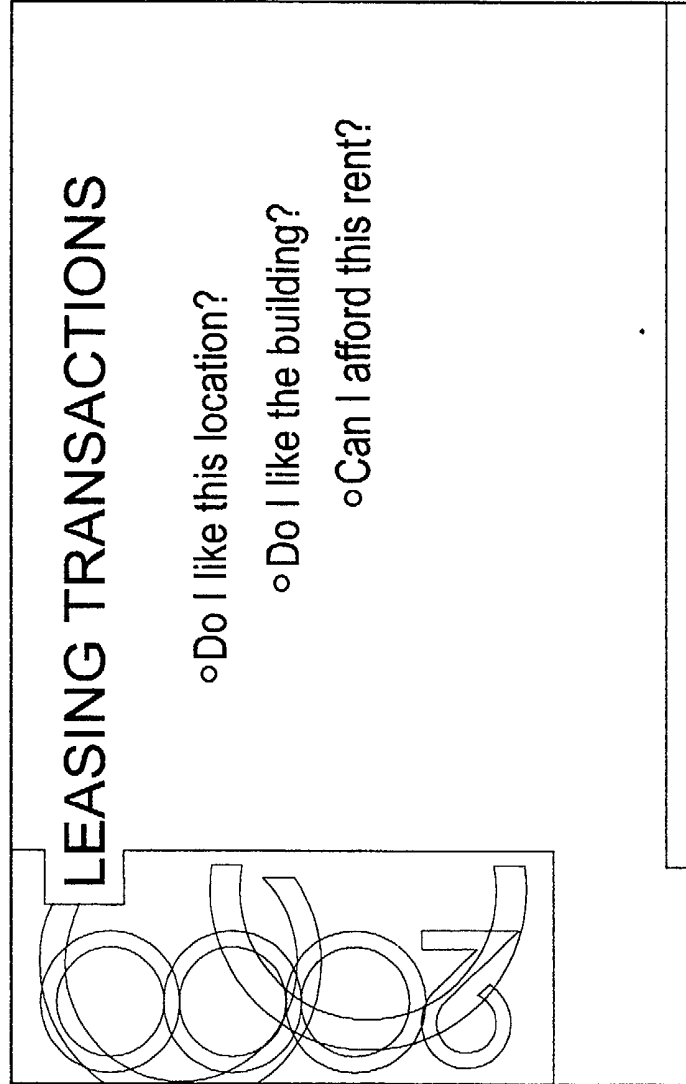
**FIG.2**



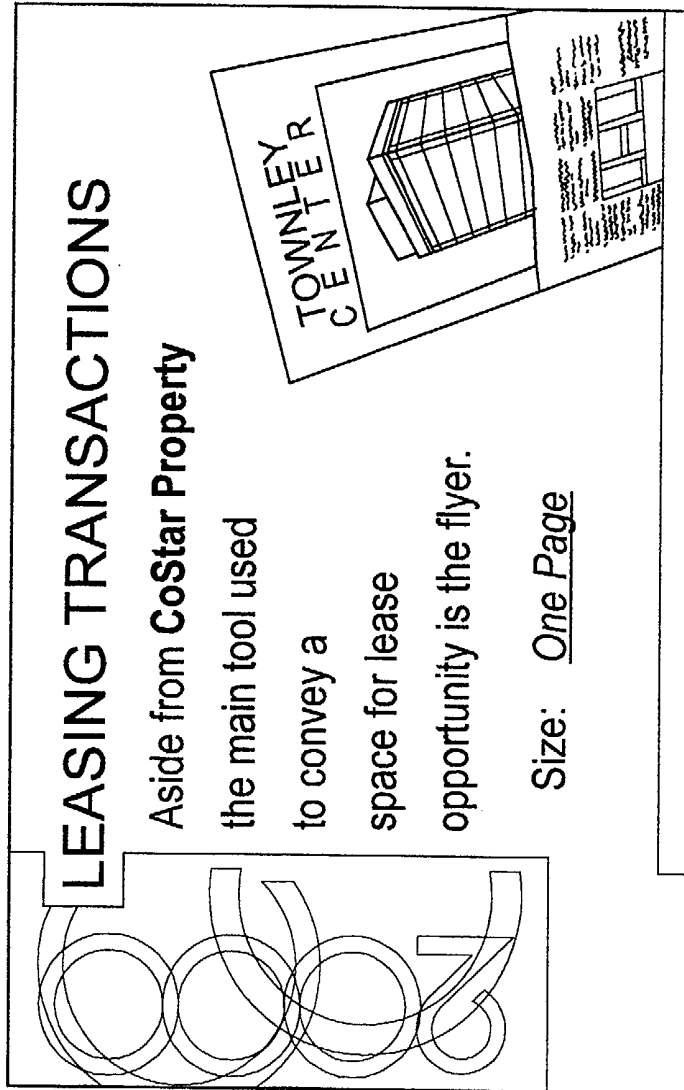
**FIG.3**



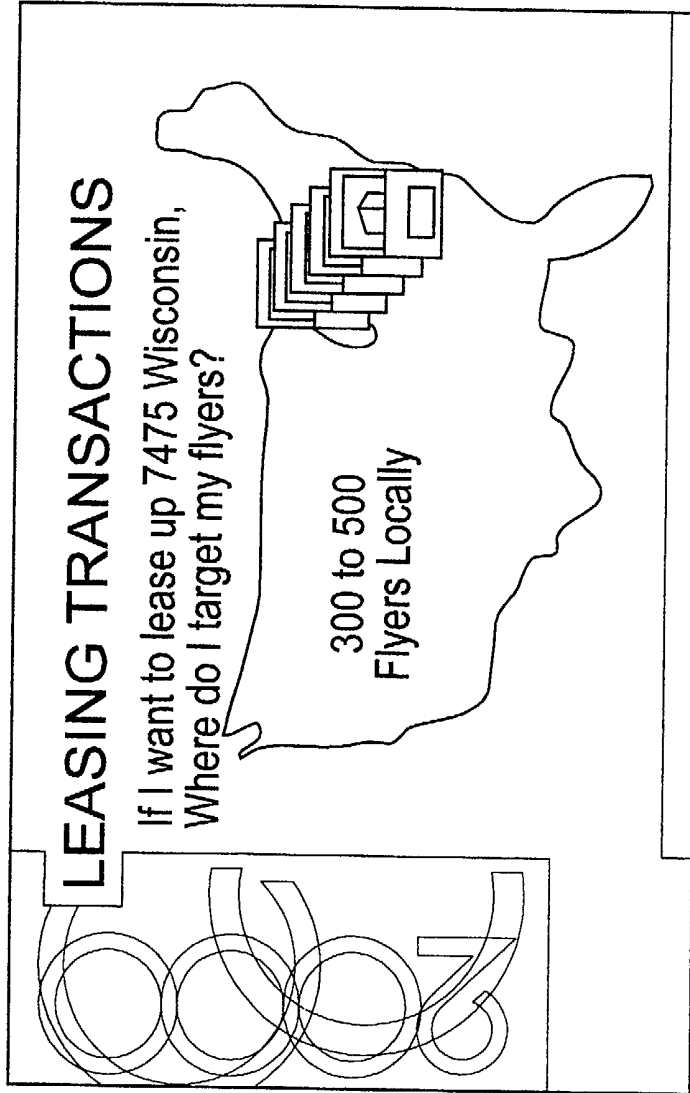
**FIG.4**



**FIG.5**

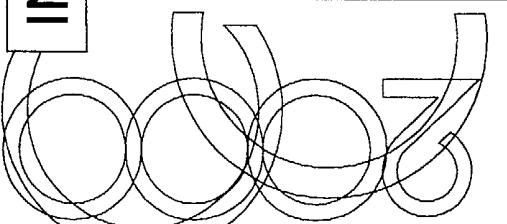


**FIG.6**



**FIG.7**

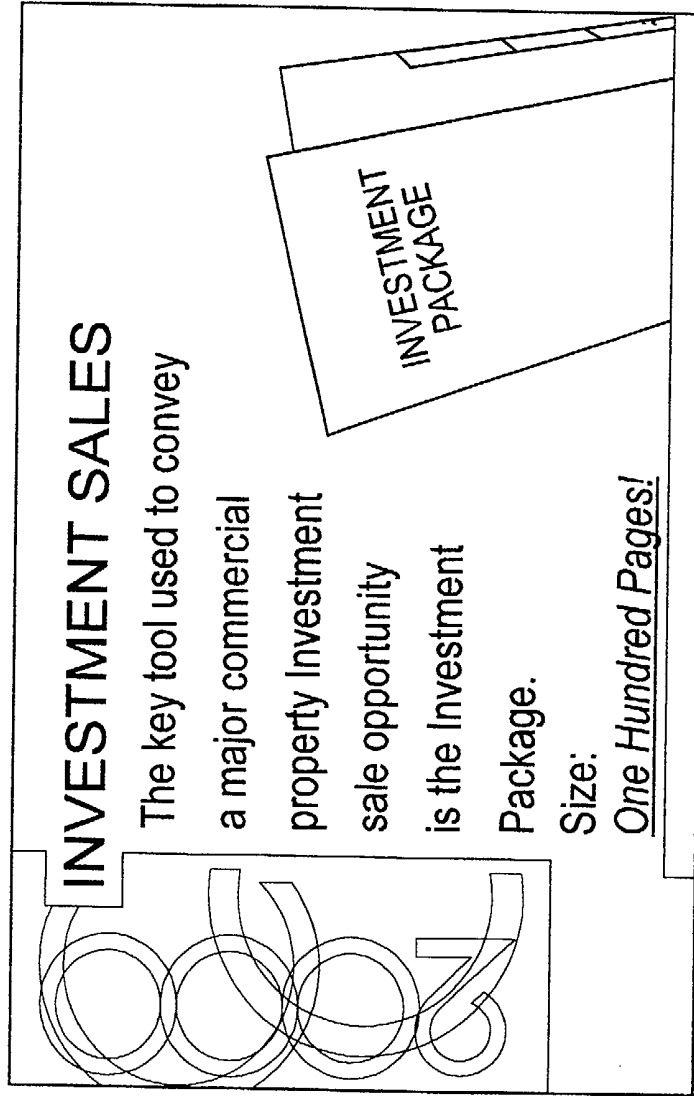




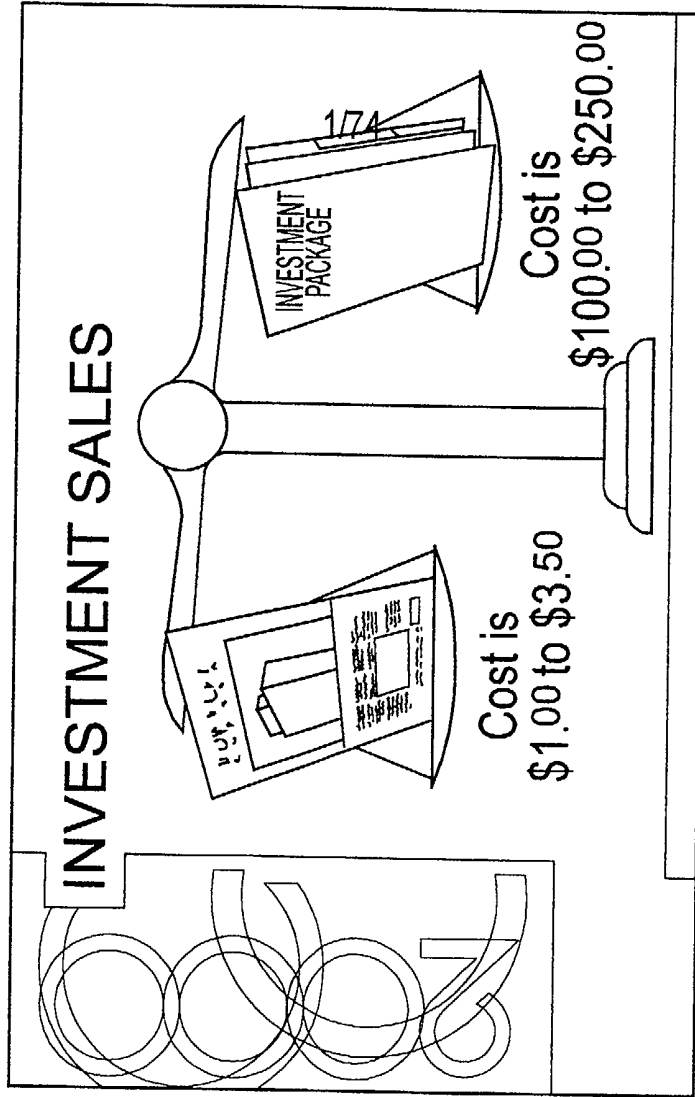
## INVESTMENT SALES

- Is this the right type of property?
- Do we invest in properties in this area?
  - Is this building leased up enough?
  - When do the tenants leases expire?
  - Are these good credit tenants?
  - Does this building have enough income?
  - When these tenants lease roll will I get good rents?
    - Does this market have a low vacancy rate such that I can re-lease quickly?
  - When I have to re-lease, who will my competitors be?
- Based on other sales in this area is this a fair price?
- What multiple of revenues are other buildings selling for?
- Can I get reasonable financing for this property?
- Will you accept an offer of \$35 million?
- Will you accept these legal terms of sale?
- Did my engineers find structural or environmental flaws?

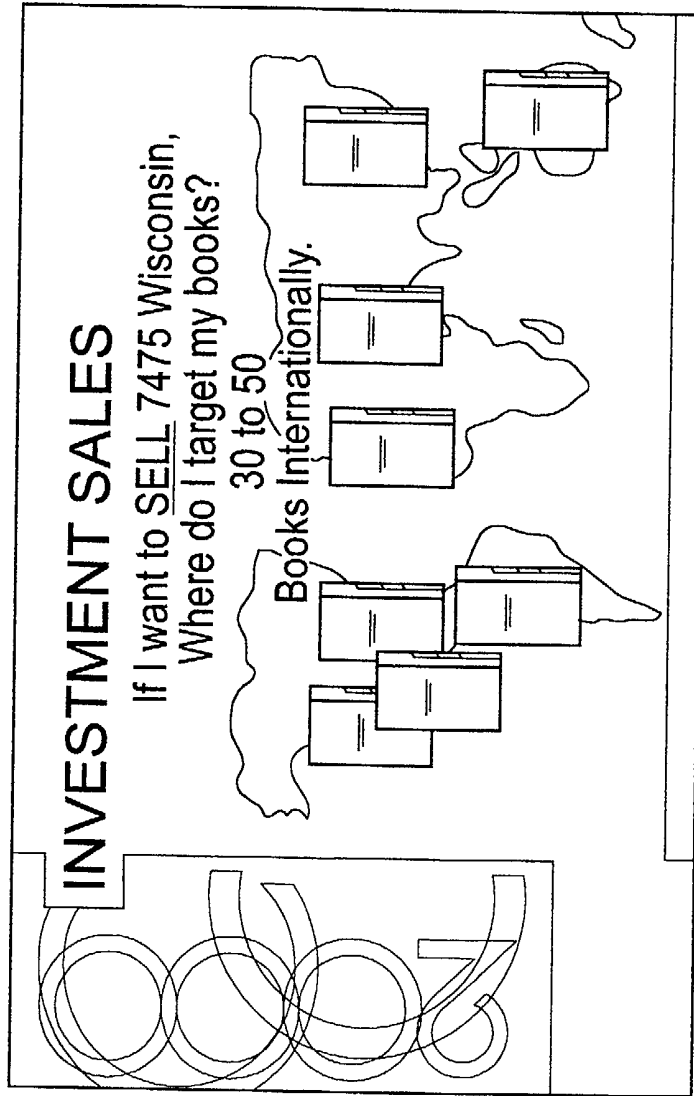
**FIG.8**



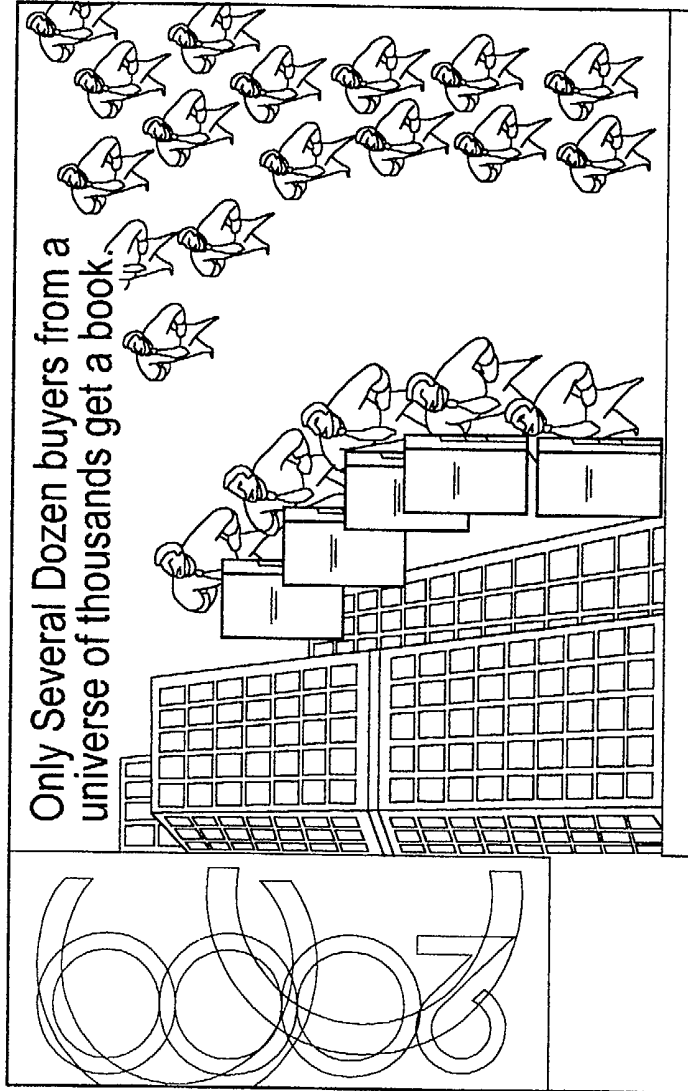
**FIG.9**



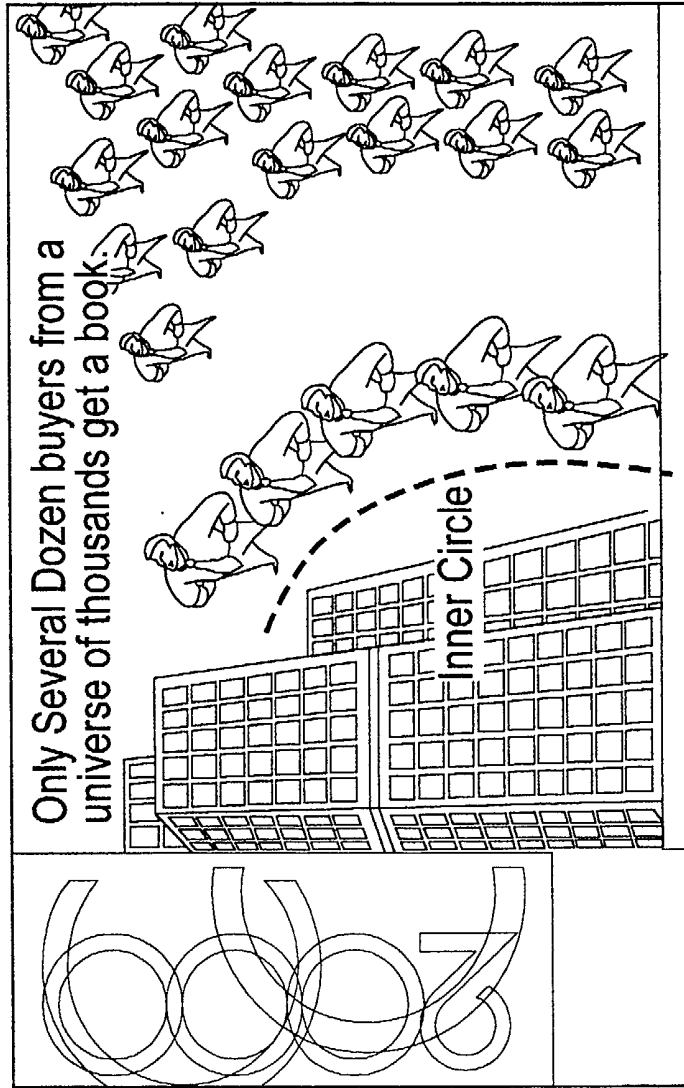
**FIG.10**



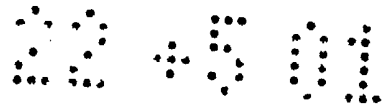
**FIG.11**



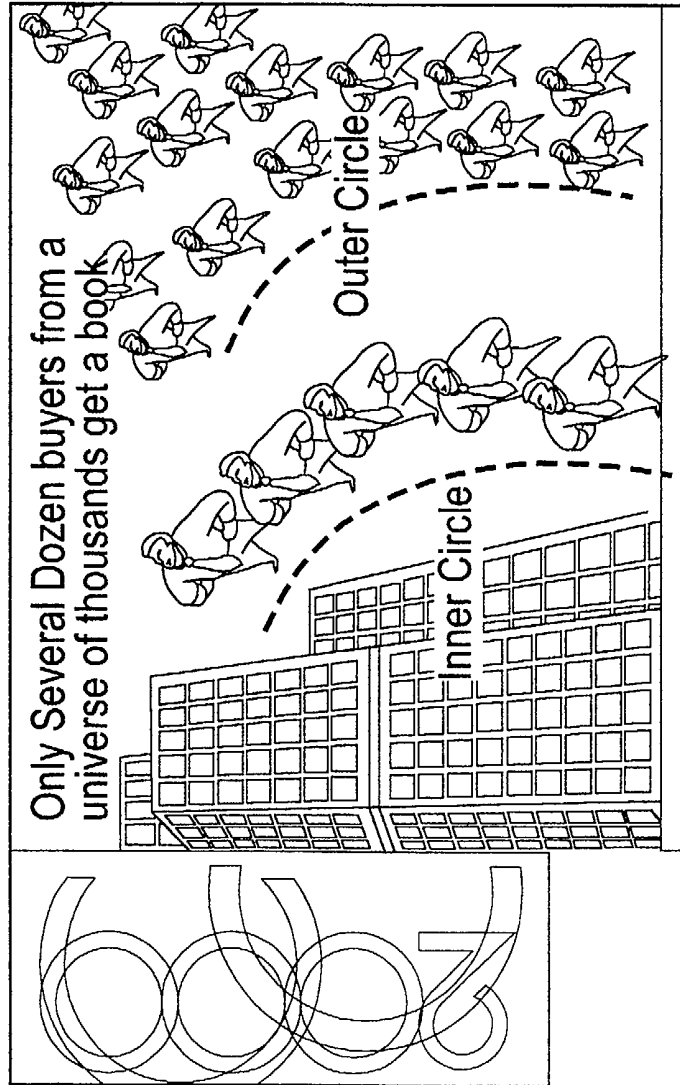
**FIG.12**



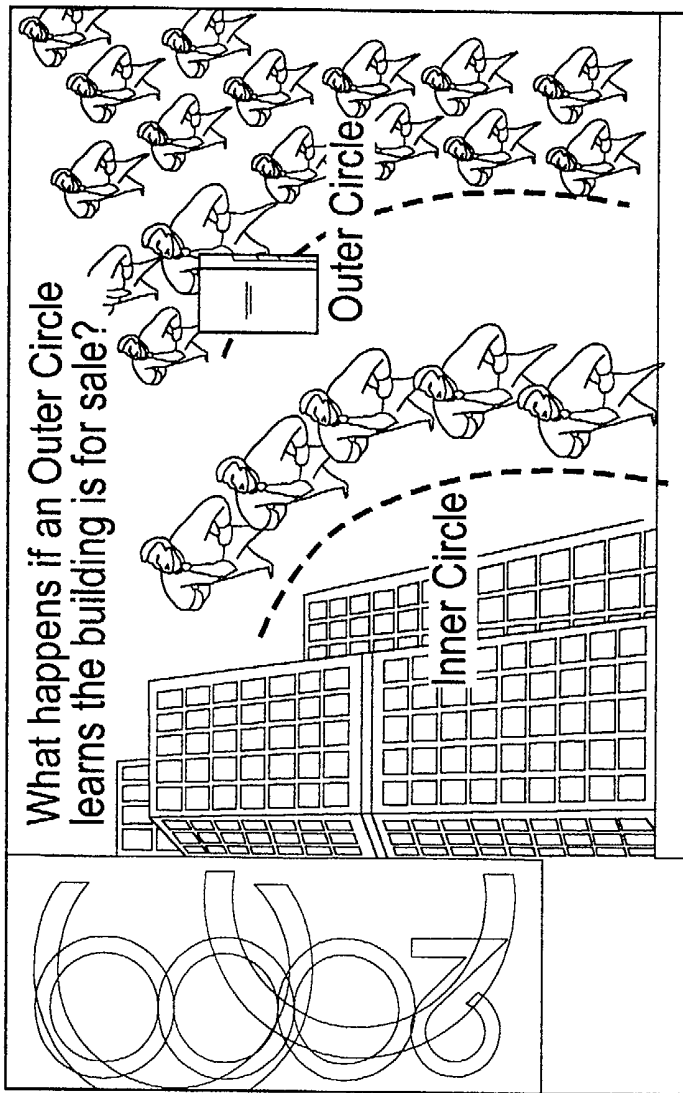
**FIG.13**



14/74



**FIG.14**



**FIG.15**

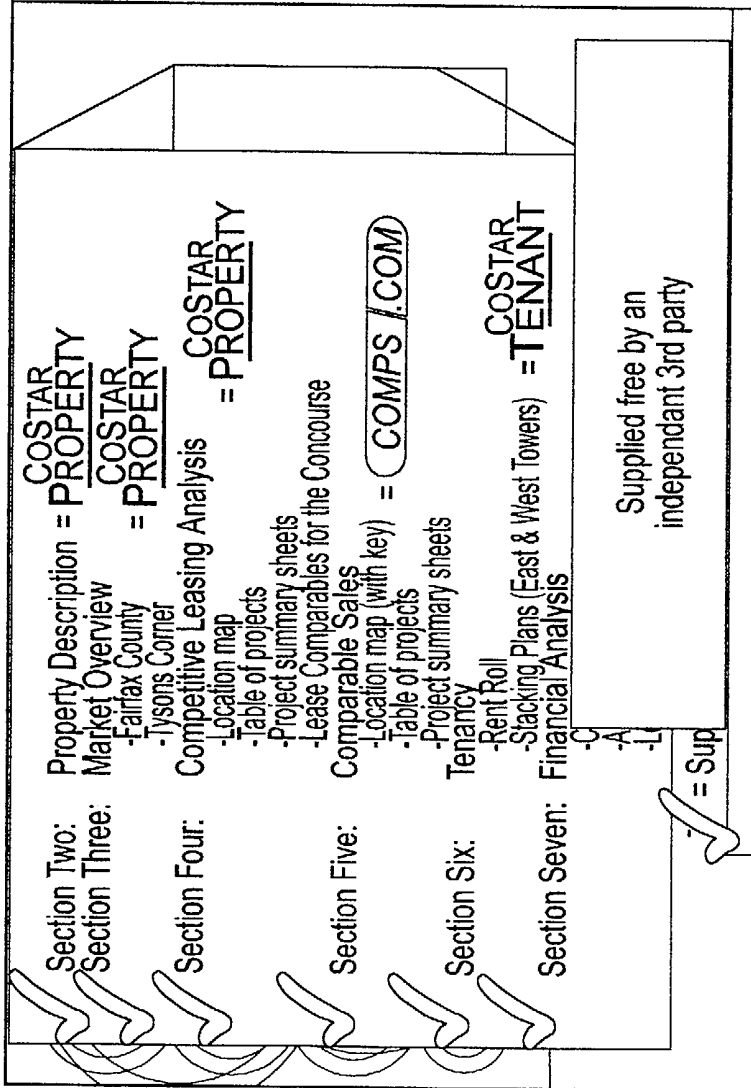


**CONCOURSE**  
**TABLE OF CONTENTS**

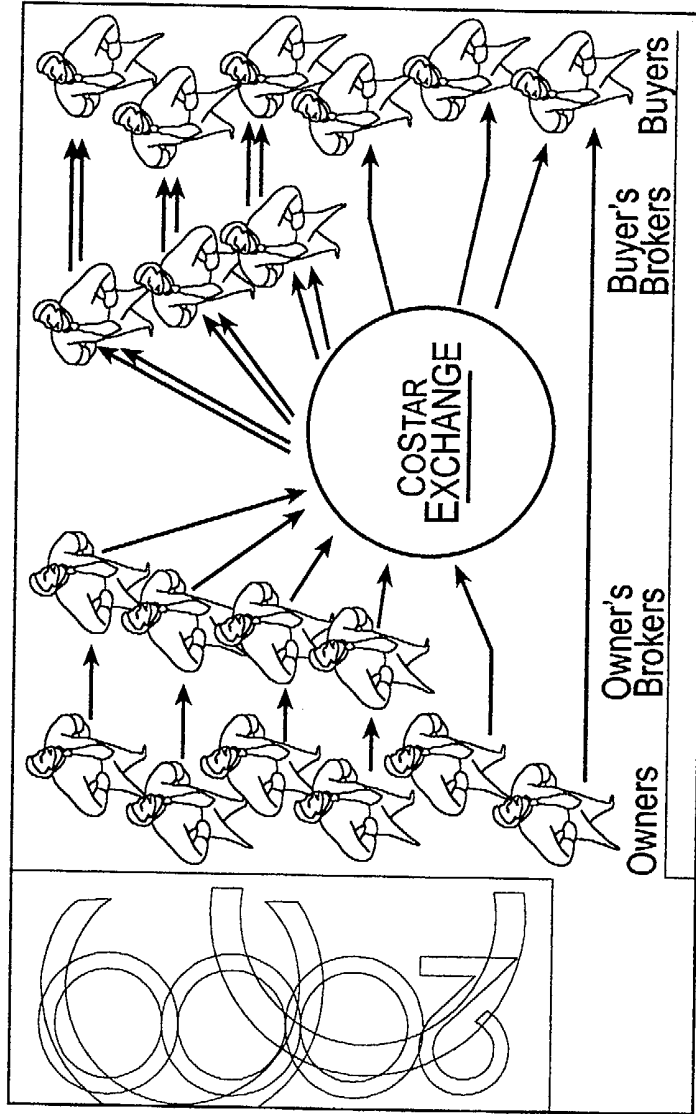
Section Two:	Property Description
Section Three:	Market Overview -Fairfax County -Tysons Corner
Section Four:	Competitive Leasing Analysis -Location map -Table of projects -Project summary sheets -Lease Comparables for the Concourse
Section Five:	Comparable Sales -Location map (with key) -Table of projects -Project summary sheets
Section Six:	Tenancy -Rent Roll -Stacking Plans (East & West Towers)
Section Seven:	Financial Analysis -Cash Flow Proforma -Assumptions -Lease-up Currently Vacant Space

✓ = Supplied by the Seller!

**FIG.16**



**FIG.17**



**FIG.18**

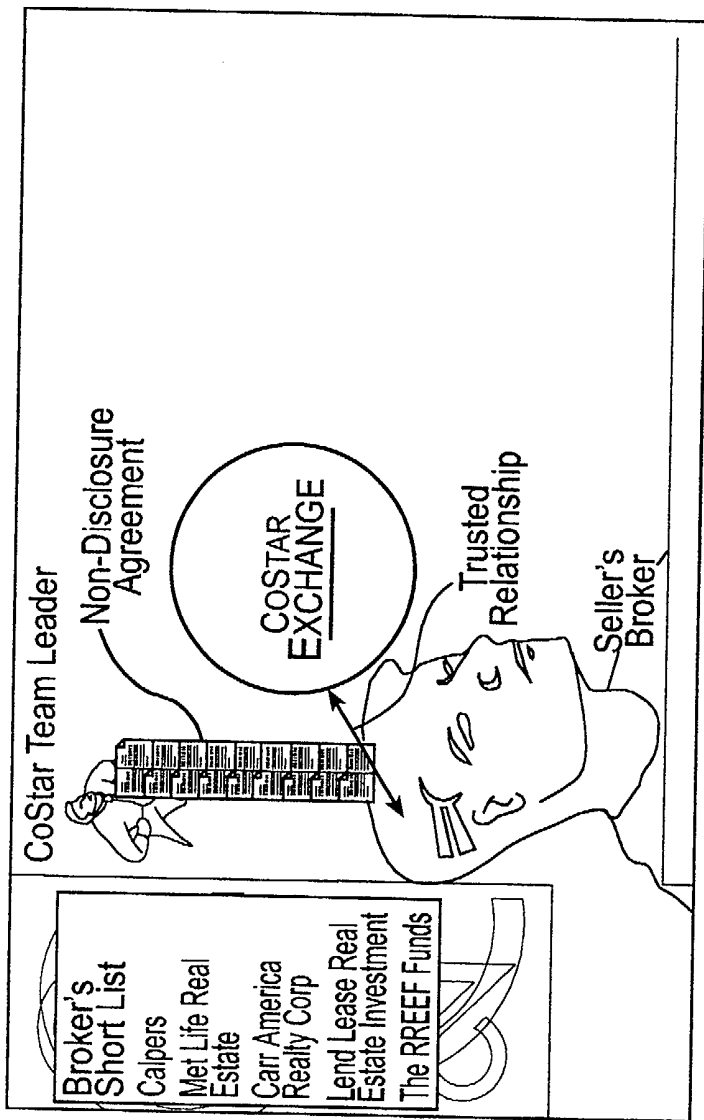


FIG.19

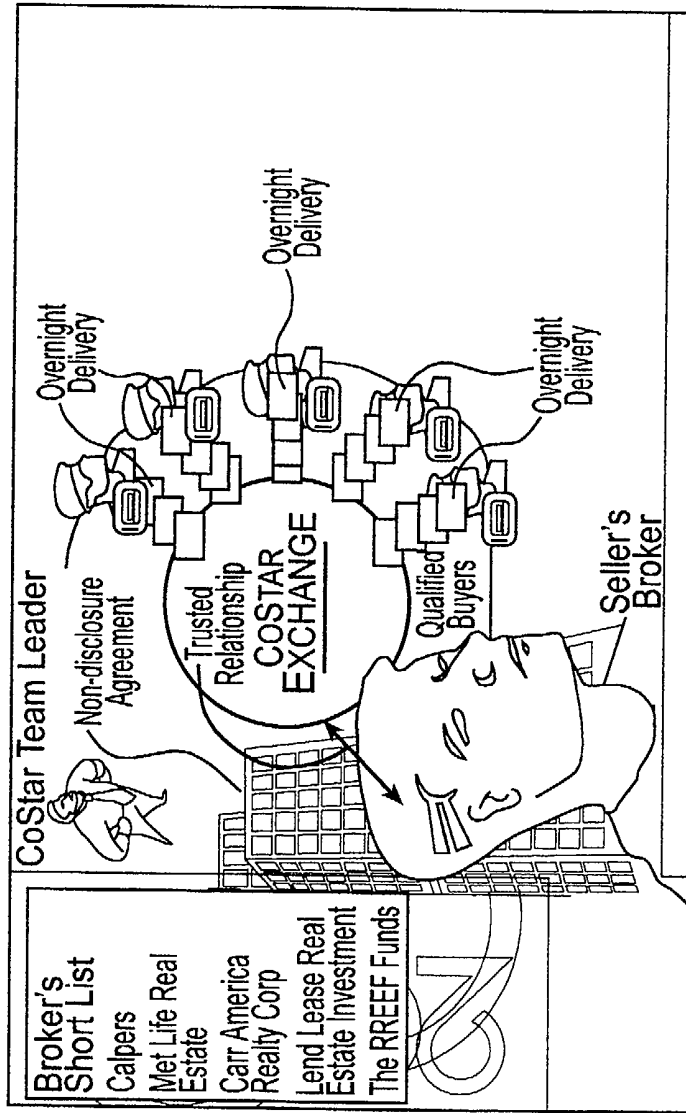
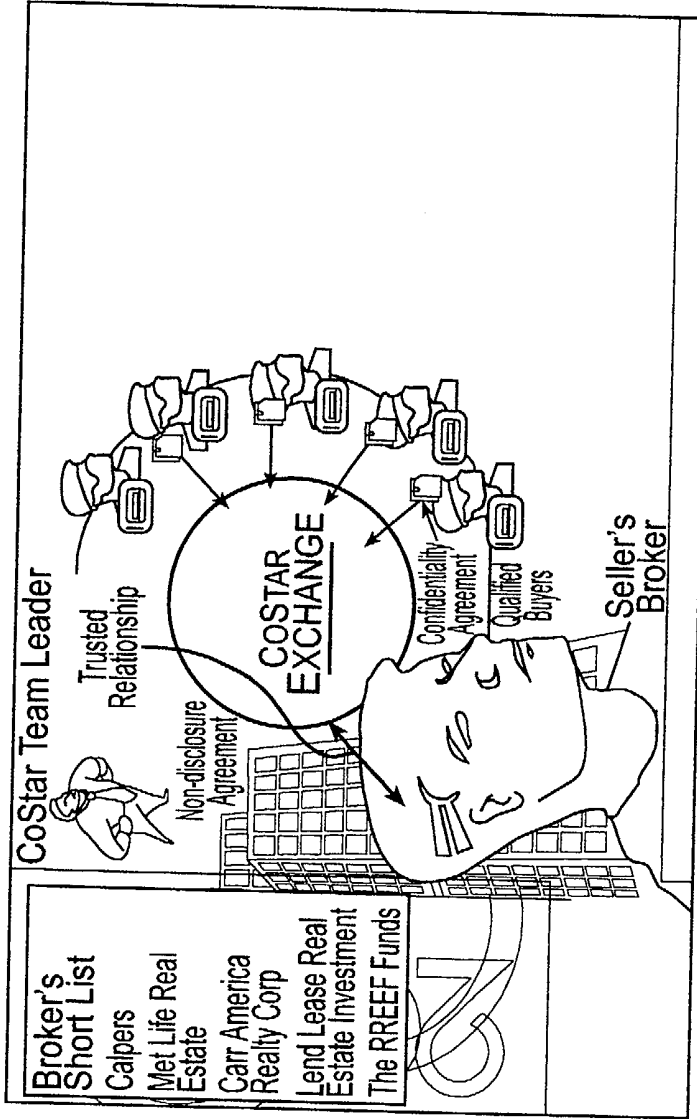


FIG.20



**FIG.21**

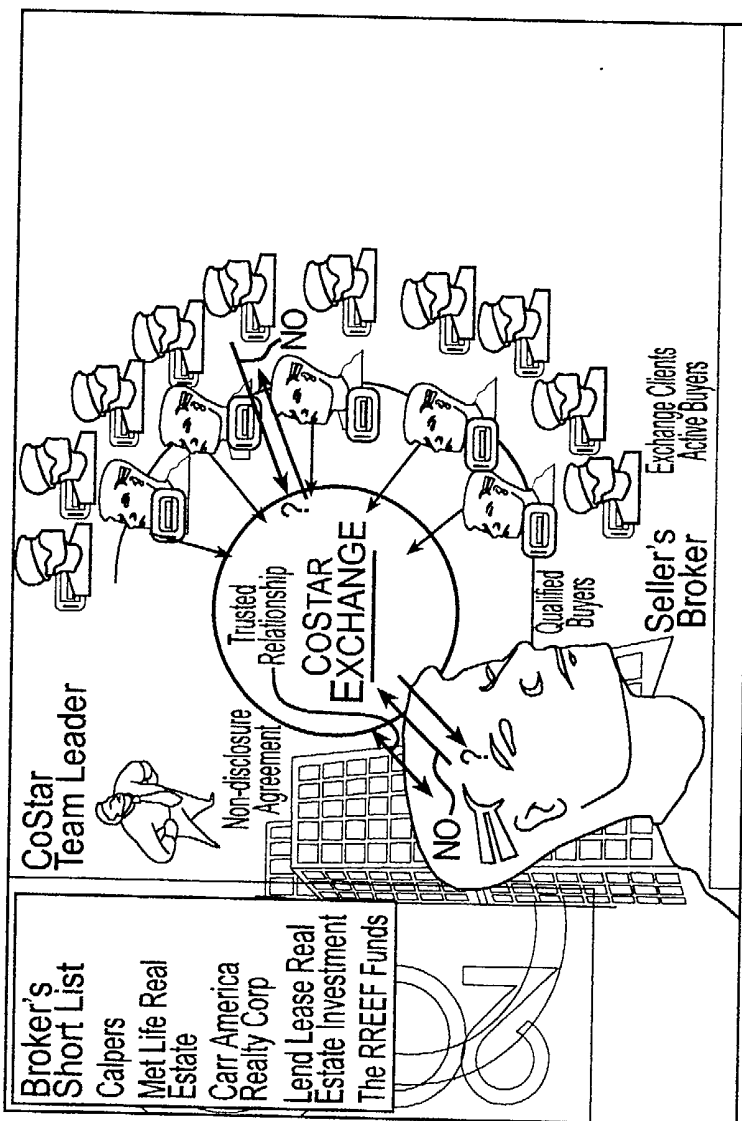


FIG.22

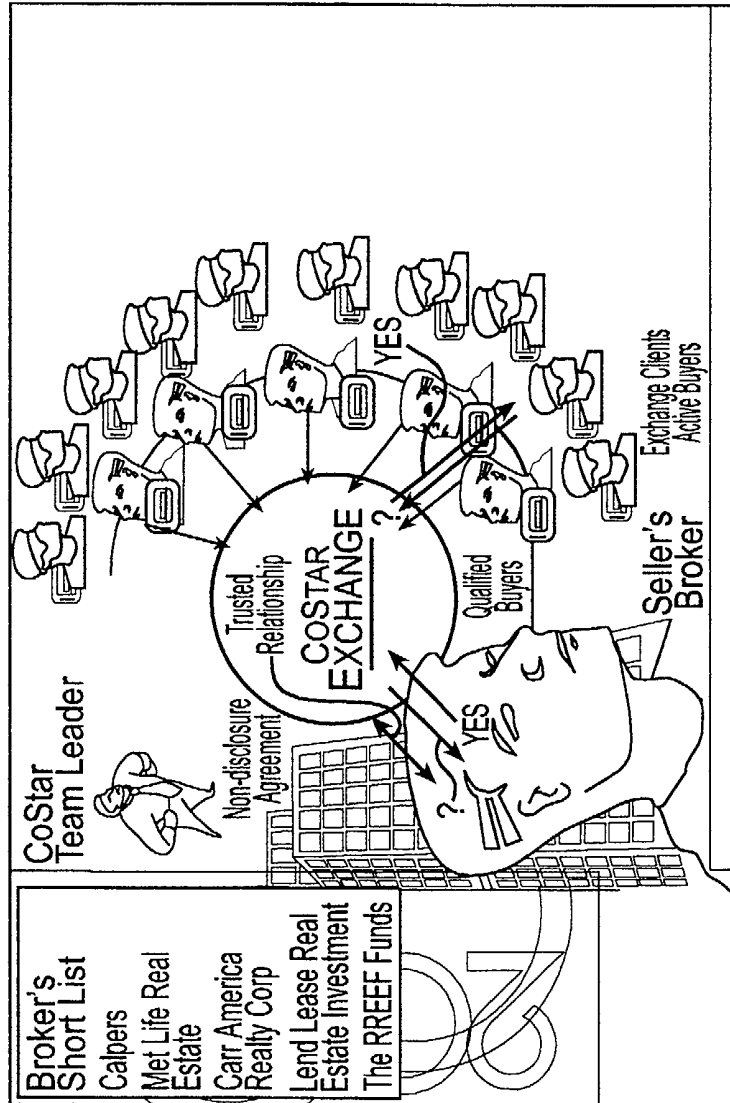


FIG. 23



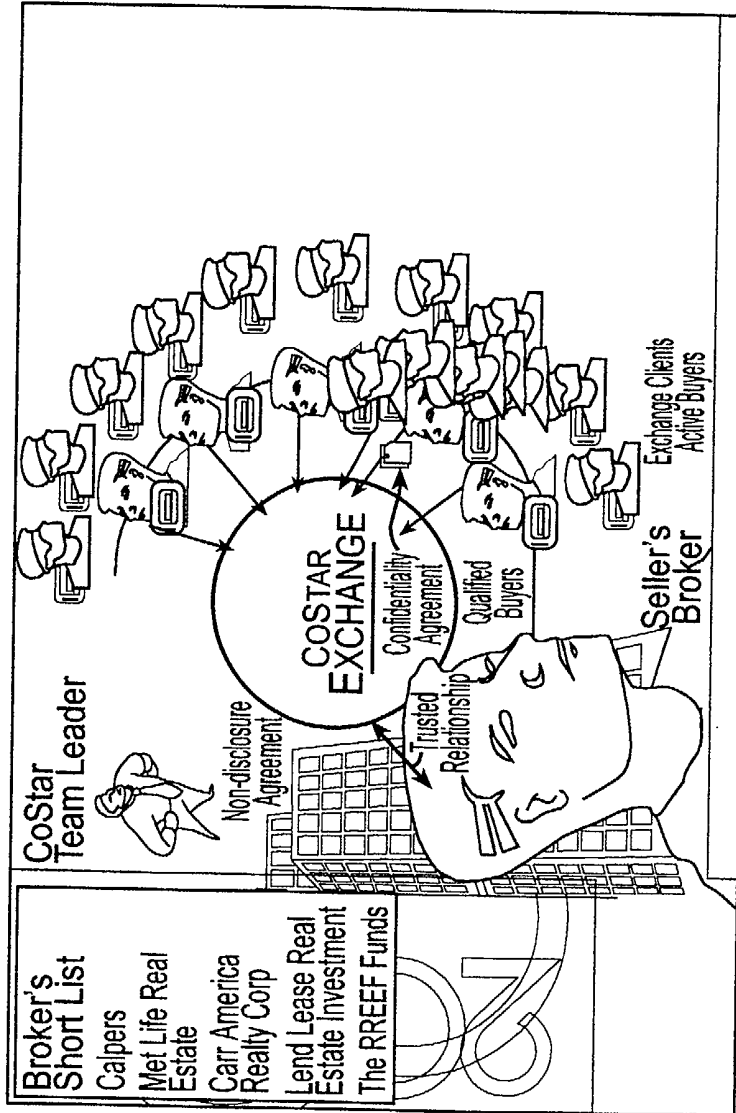


FIG.24

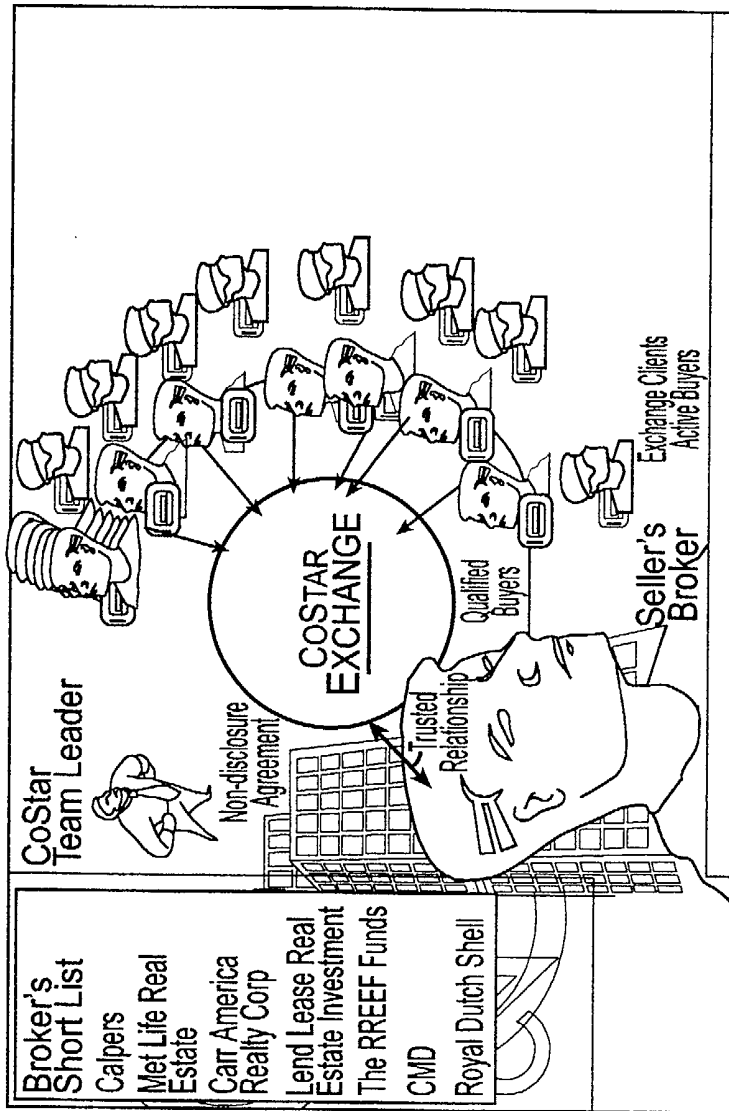


FIG.25

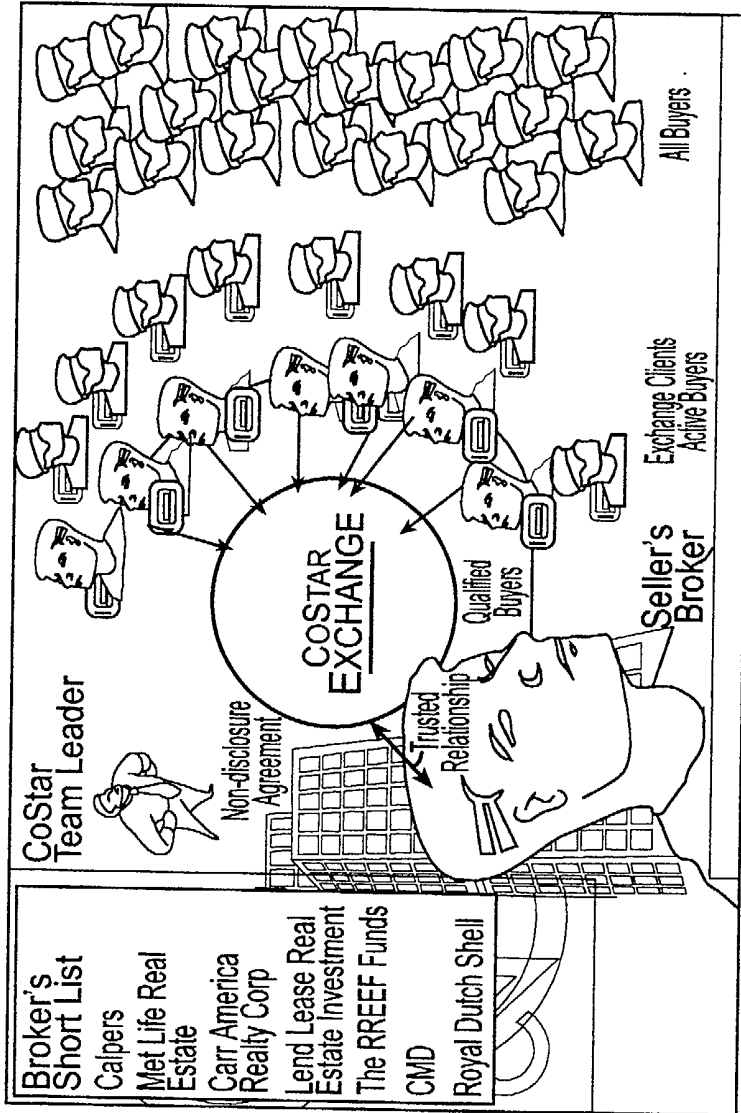


FIG.26

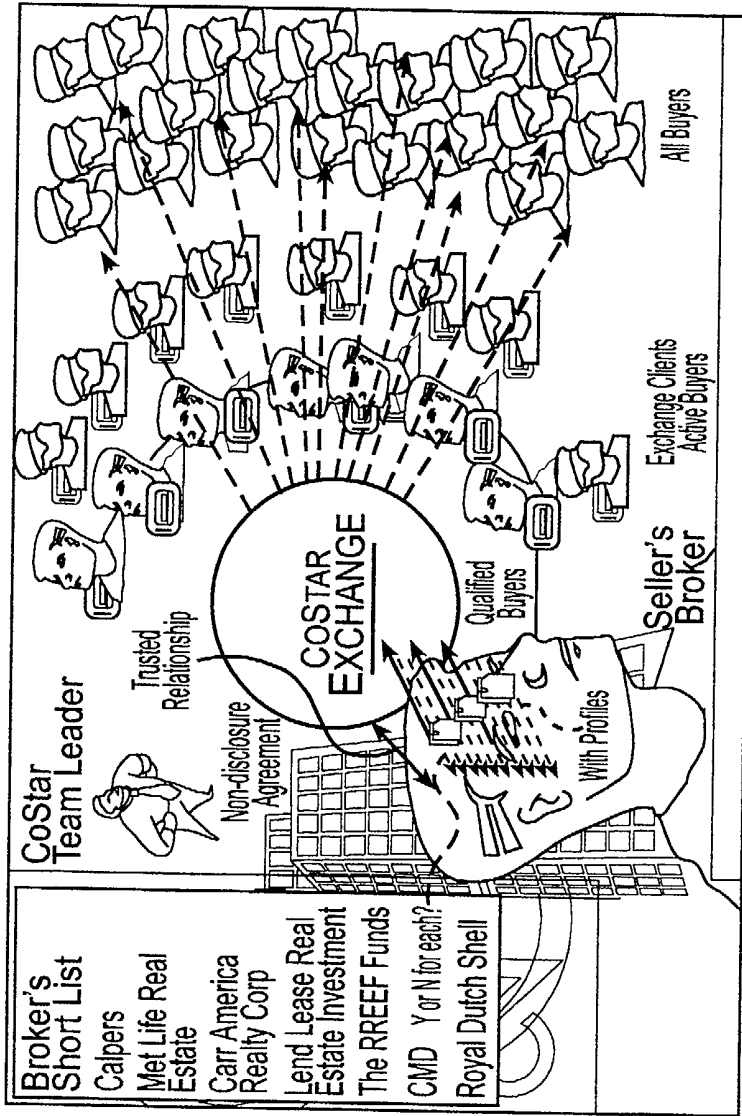


FIG.27

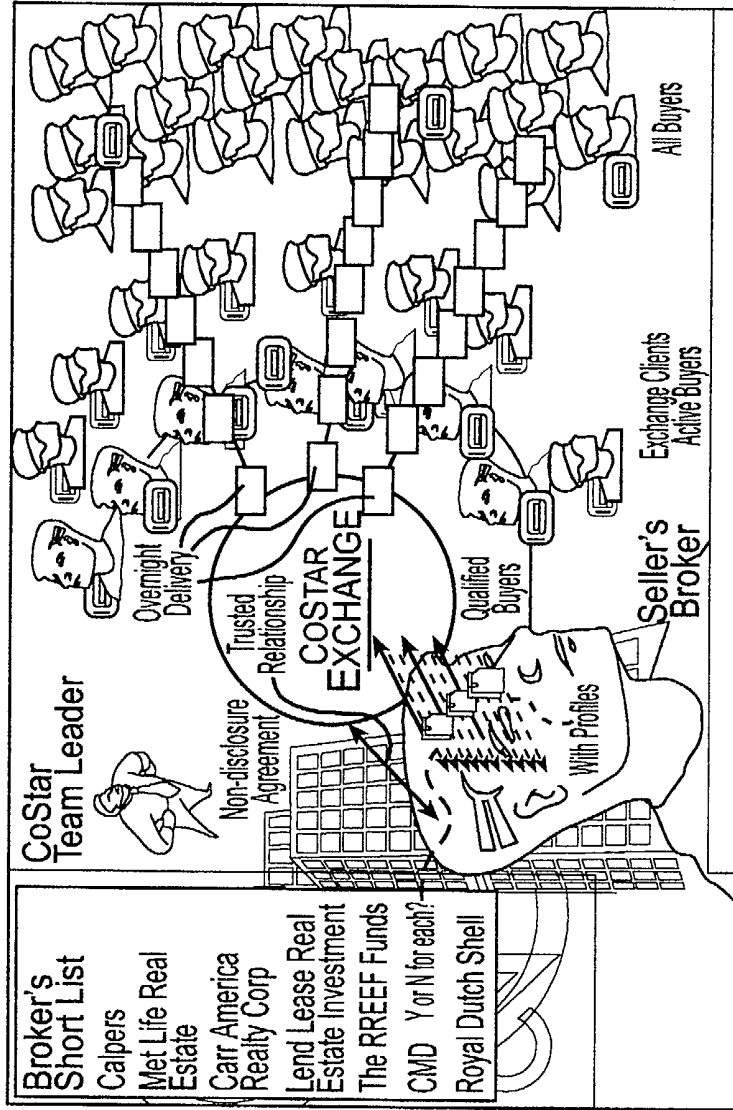


FIG.28

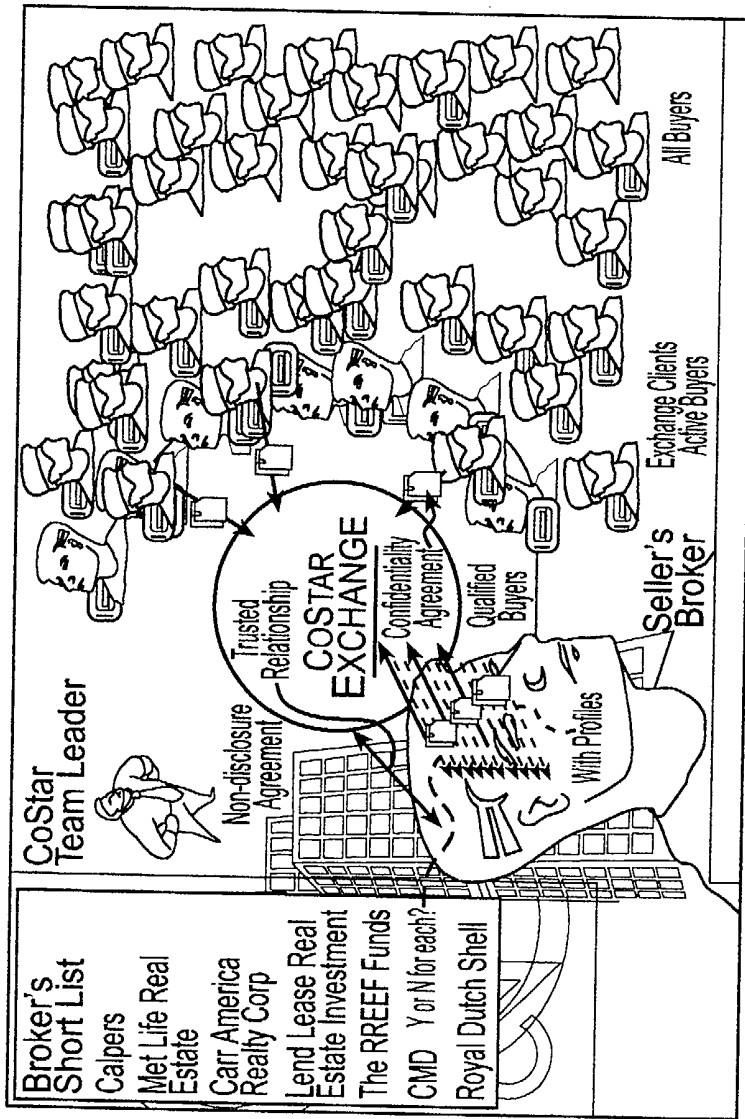


FIG.29

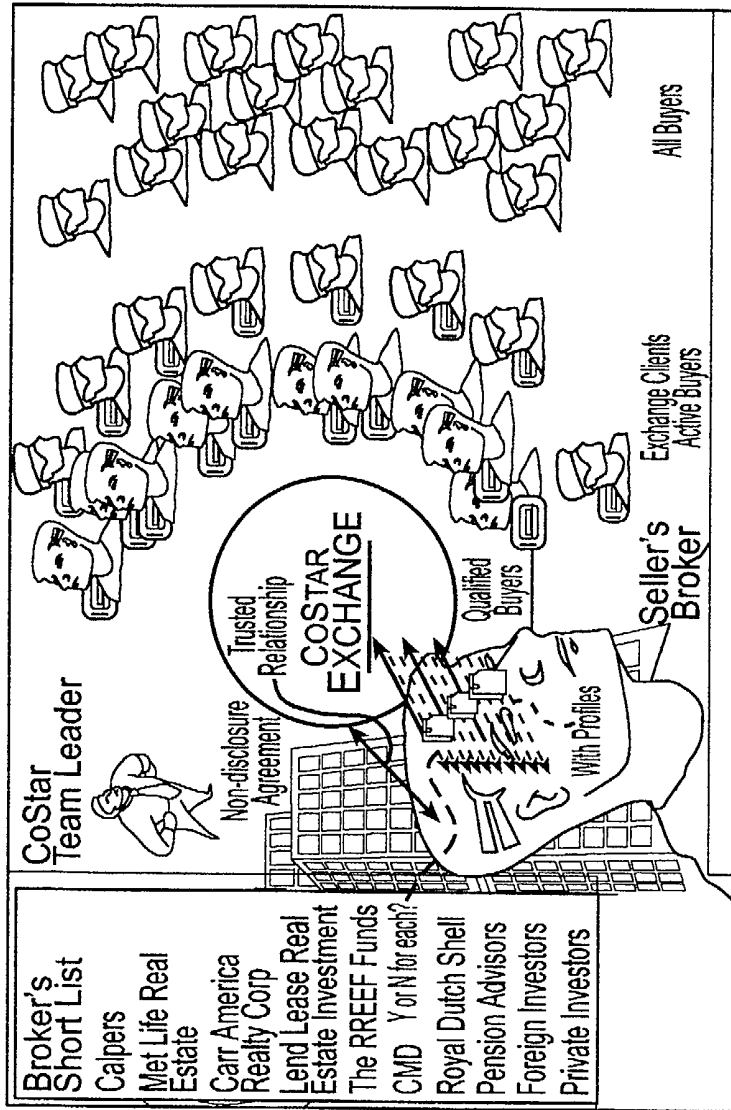
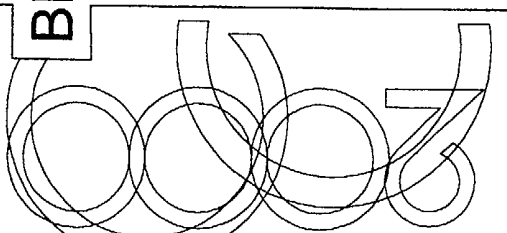


FIG.30

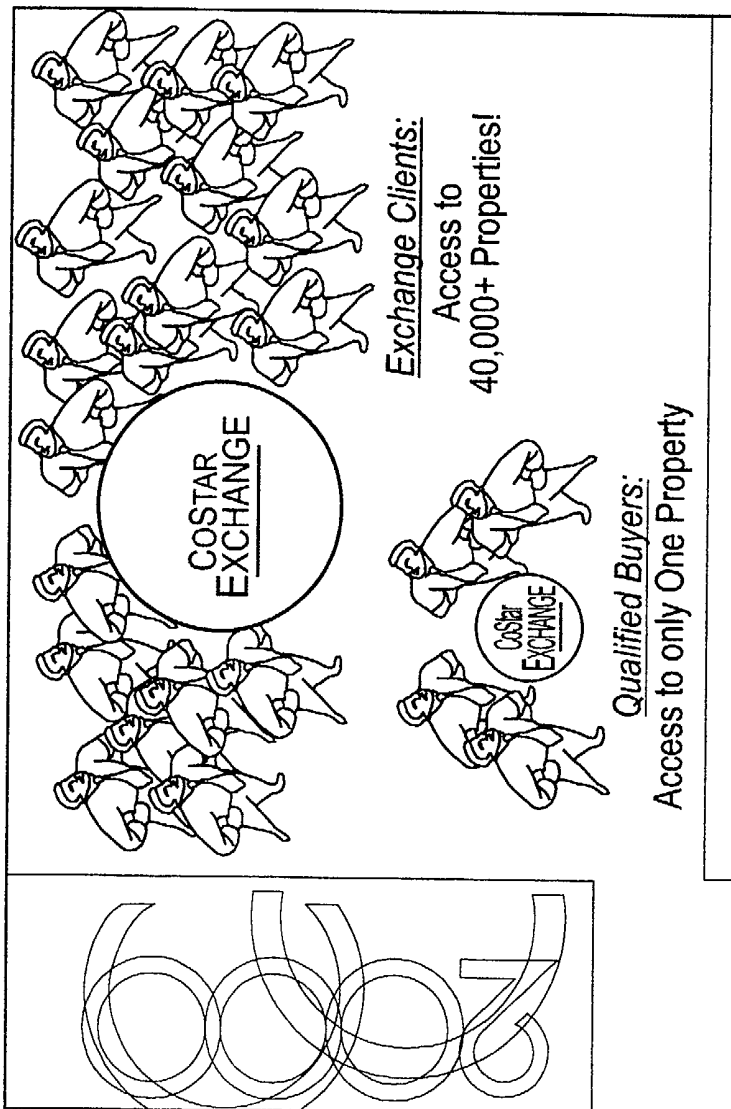


**BENEFITS** to Seller or Seller's Broker

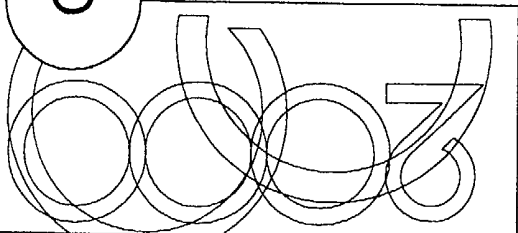
- Free Service.
- Highly secure and controlled distribution.
- Broadens reach.
- Allows development of private buyer network.
- Accelerates transaction.
- More qualified buyers.

**FIG.31**





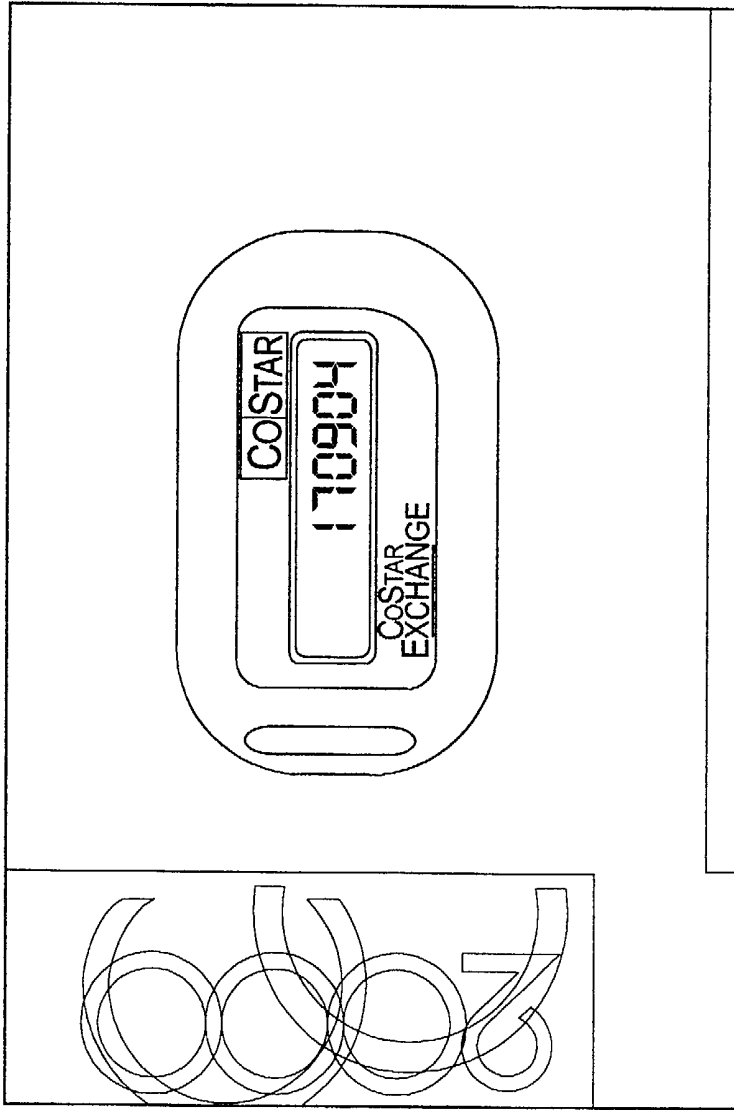
**FIG.32**



## OUR REVENUE MODEL

- Subscription Service, similar to CoStar.
- Banner advertising revenue.
- Lender referral fees.
- Buyer/Seller matching Fees.
- Click through revenue.
- Enhanced listings fees.
- Cost savings on comps.com data collection.

**FIG.33**



**FIG.34**

The screenshot shows a web browser window displaying the CoStar Group website. The browser's address bar shows the URL: <http://www.costargroup.com/show/main/home6/default6.htm>. The website header includes the CoStar Group logo and navigation tabs for "For Sale", "For Lease", "Tenants", and "Sale Comps". A main banner features a 3D bar chart with callouts labeled "104" and "106", and the text "COSTAR EXCHANGE \$30.6 Billion Commercial & Investment Sale Properties". Below the banner are buttons for "Lookup Property", "Search Database", and "Add Listing", along with a list of services: "Saved searches, alerts, subscription membership, professional profile, demo, FAQ, Confidential listings, buyer/seller match, forms & contracts, help". A large text block states: "Exchange is truly an industry breakthrough - with 39,417 detailed listings - integrated into the widest range of on-line services ever offered. Never before has the commercial real estate market had such capability in searching, sorting, reporting, tracking and underwriting - for so many properties." On the right side, there is a "Top News" section dated "Monday, December 28, 1999", featuring an article titled "Money Centric" by Mark Heschmeyer with the sub-headline "Forget real estate, these days REITS are making serious money in the telecom business..." and a "Go to full story..." link. Below the news are several category buttons: "Regional" (with "Franklin Court Sold for \$115 Million"), "Boardroom" (with "Where Are We Growing?"), and "REIT" (with "Shopping Center REITs Join Forces"). A "Top Events" section lists "1/12/00 DC CCIM Annual Forecase". On the left side of the page, a vertical navigation menu includes: "News", "Market Trends", "Events", "Products", "Company Info", "Stockholders", "Support", "Contact Us", "Employment", and "Site Map". A bracket labeled "100" encompasses the navigation menu and the main content area. A callout labeled "108" points to the "Employment" link in the navigation menu.

FIG.35

Microsoft Internet Explorer  
 File Edit View Favorite Tools Help

**COSTAR EXCHANGE**

Lookup

New Search

Saved Searches

Add Listing

Alerts

Profile

Buyer Match

Forms/Contracts

Demo

FAQ

Help

Saved Searches

Listed are searches that you previously saved. To view the results, click the Search Description. You can change the Notification for a search by clicking it's current status.

Description	Created	Notification?
<a href="#">Saved Search 1 Office for M. Smith</a>	01/02/99 06:01:26 PM	YES
<a href="#">Saved Search 2 Office in VA for Rob Jones</a>	01/02/99 08:23:22 PM	YES
<a href="#">Saved Search 3 Industrial for Mike</a>	01/03/99 11:54:48 AM	NO
<a href="#">Saved Search 4 Industrial in DC</a>	01/03/99 02:45:51 PM	NO
<a href="#">Saved Search 5 Hotels for sale in NW region</a>	01/03/99 03:12:43 PM	YES
<a href="#">Saved Search 6 Vacant lots on east coast</a>	01/05/99 01:28:23 PM	YES
<a href="#">Saved Search 7 Office, DC, MD, &amp; VA</a>	01/05/99 06:31:30 PM	YES

< Back to [Results List](#)

Done Internet

FIG.36

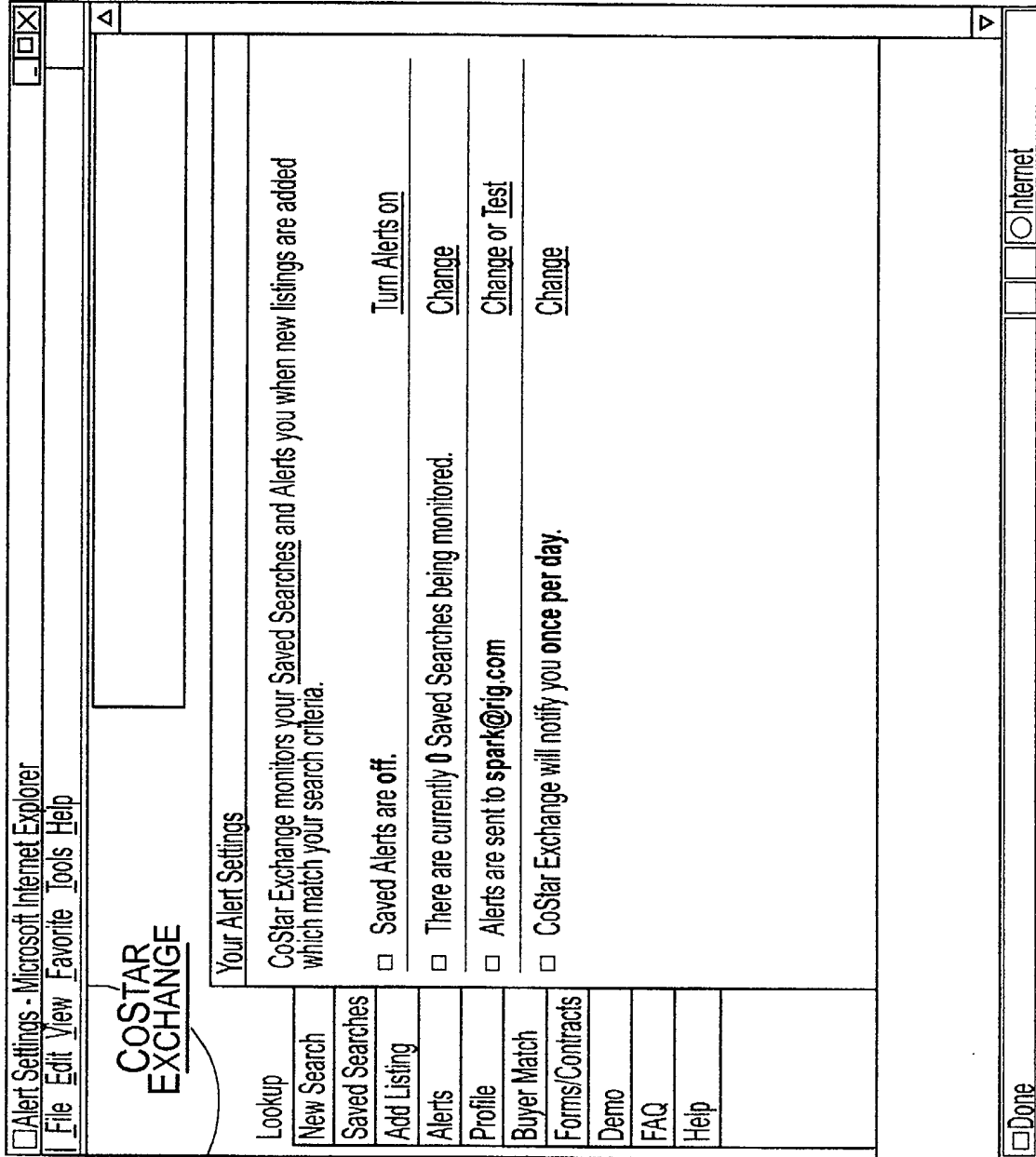


FIG.37

Professional Profile - Microsoft Internet Explorer

File Edit View Favorite Tools Help


## COSTAR EXCHANGE

**Professional Profile**

Your Professional Profile will help us customize your interactive experience on this site. Please fill it out completely. Enter any information you believe helps us to accurately reflect your professional background in commercial real estate.

**All information is confidential.** Your profile will be shared only with your approval when you request Propriety Listing Information or submit capabilities identification. Please read [privacy policy](#) for more details.

Thank You.



First Name:   
 Last Name:   
 Title:   
 Company:   
 E-mail Address:   
 Telephone:   
 Fax:   
 Address 1:   
 Address 2:   
 City:   
 State:   
 Zip:

Principal:   
 Broker:   
 Other CRE Professional:

Memberships:  ▾

Property Interest:  Office  Industrial  
 Multi-Family  Hospitality  
 Retail  Land  Other

Location Interests:  ▾

Transaction Range (\$):  to

Purchase Structure:  Leveraged  Cash

Transaction History: Please summarize up to 10 key transactions you have been involved in during the past two years. Include for each: property value, type, city and closing date(s).  
 (e.g. \$4,500,000 Office, LA, 3/99)  ▾

I'm interested in:  Subscription Membership  
 Listing Properties in Exchange  
 Banner Advertising

Done

FIG.38

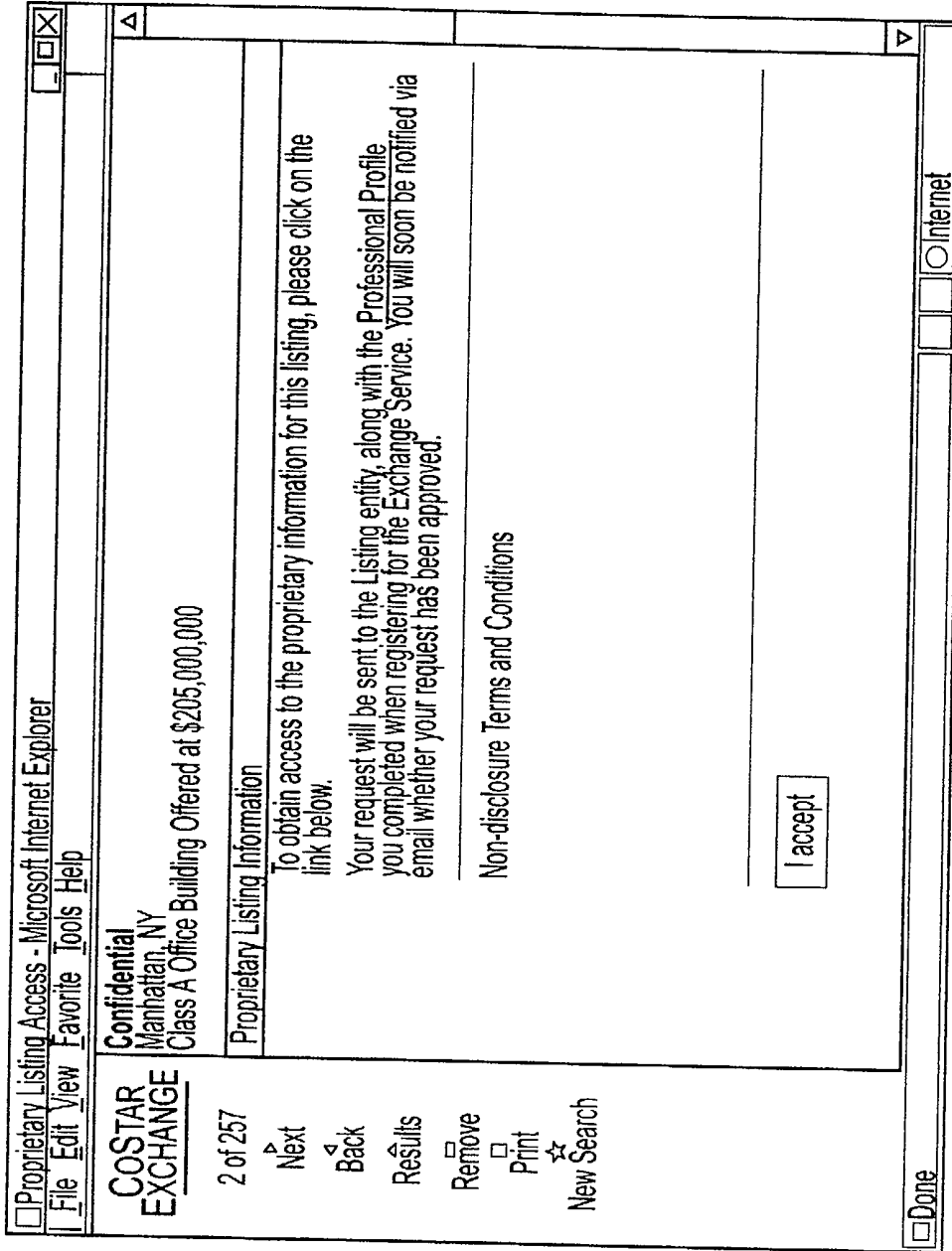
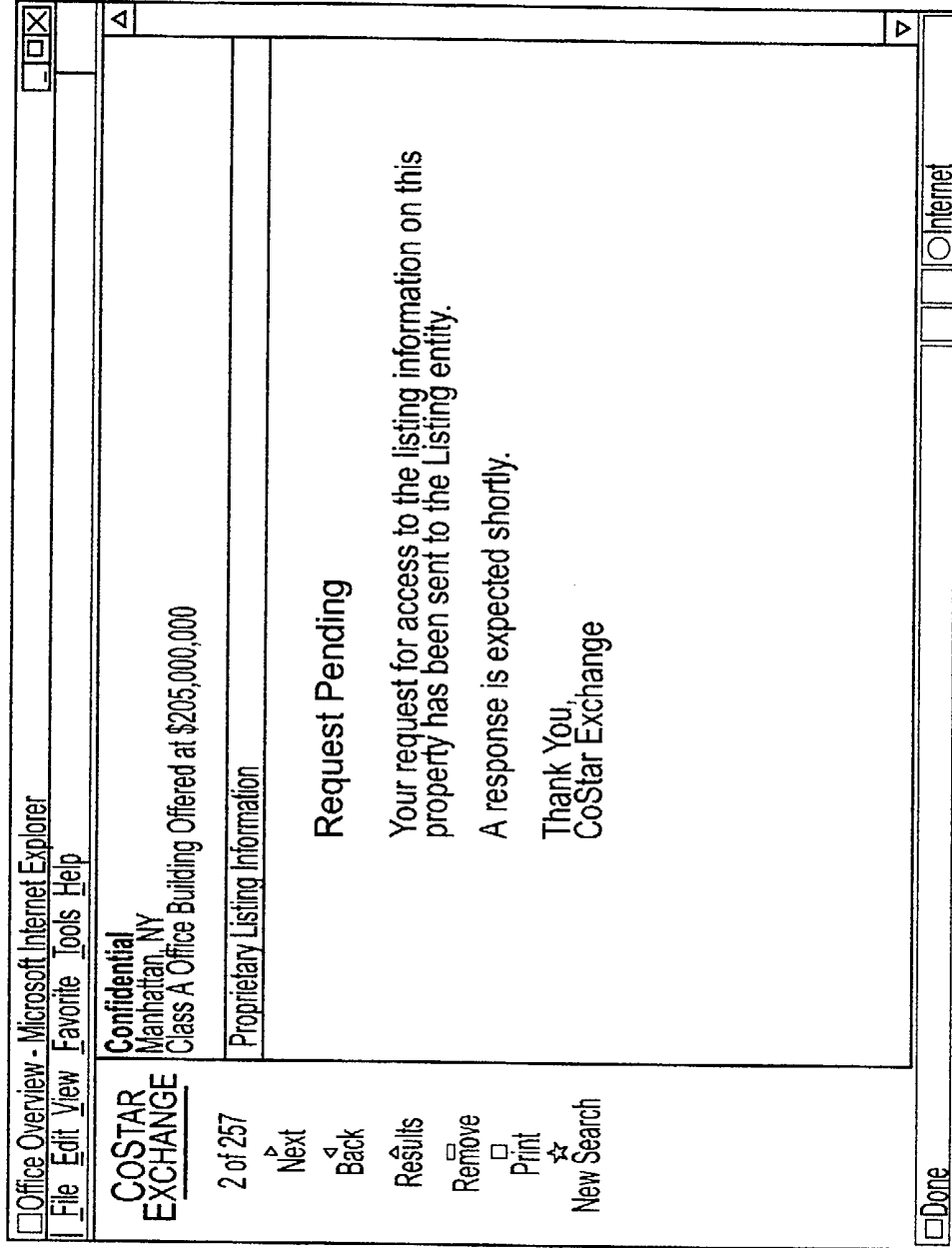


FIG.39





**FIG.40**

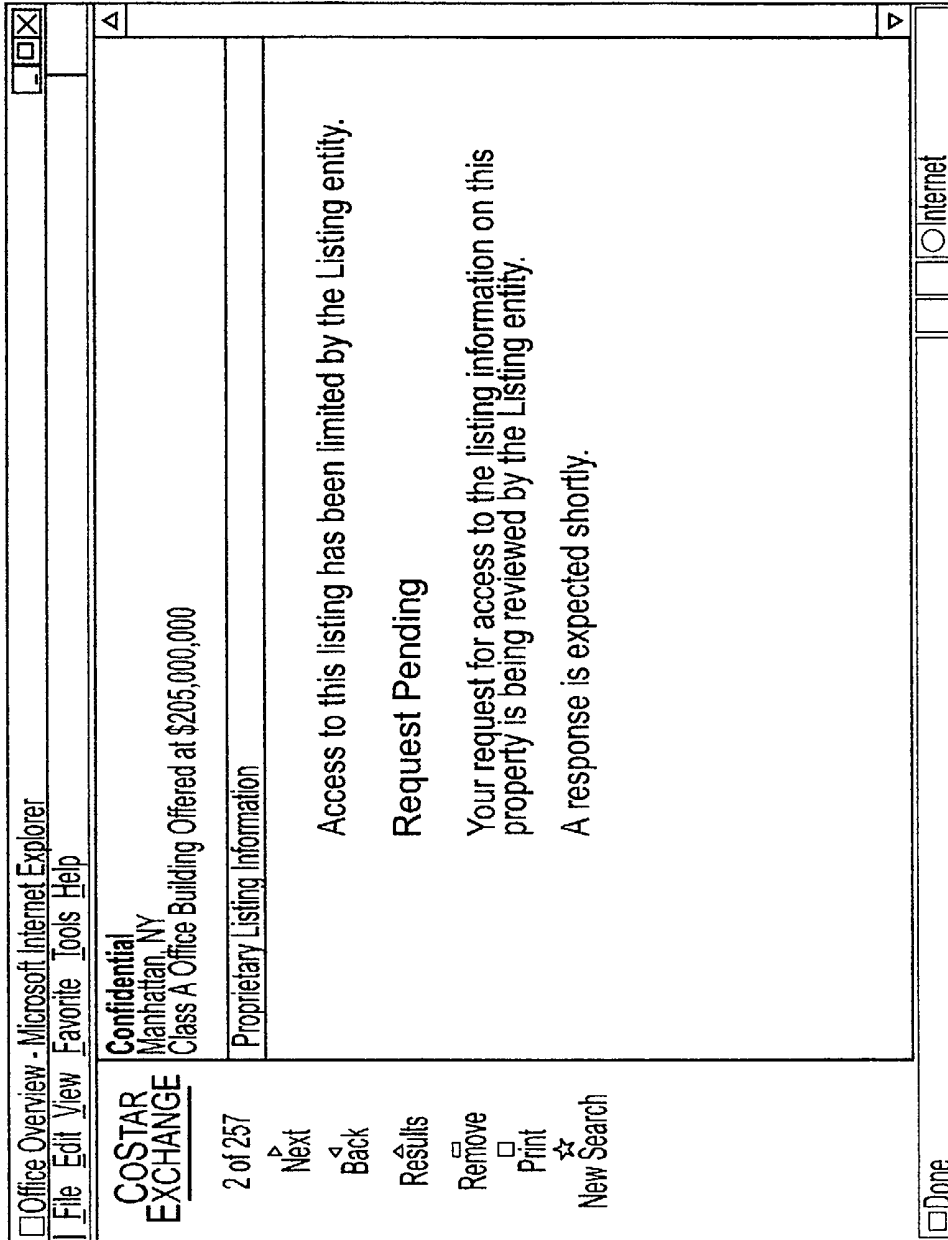
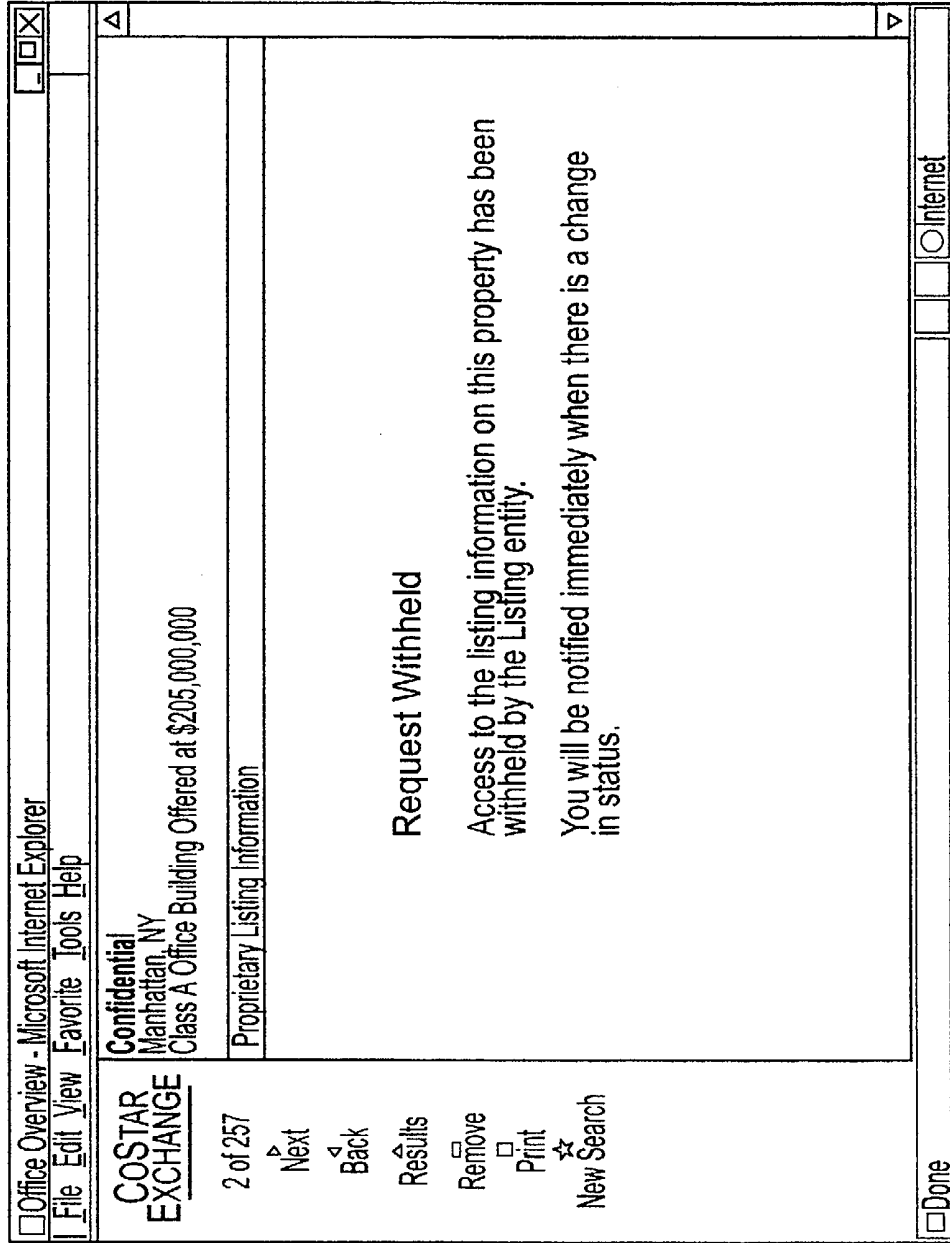


FIG.41



**FIG.42**

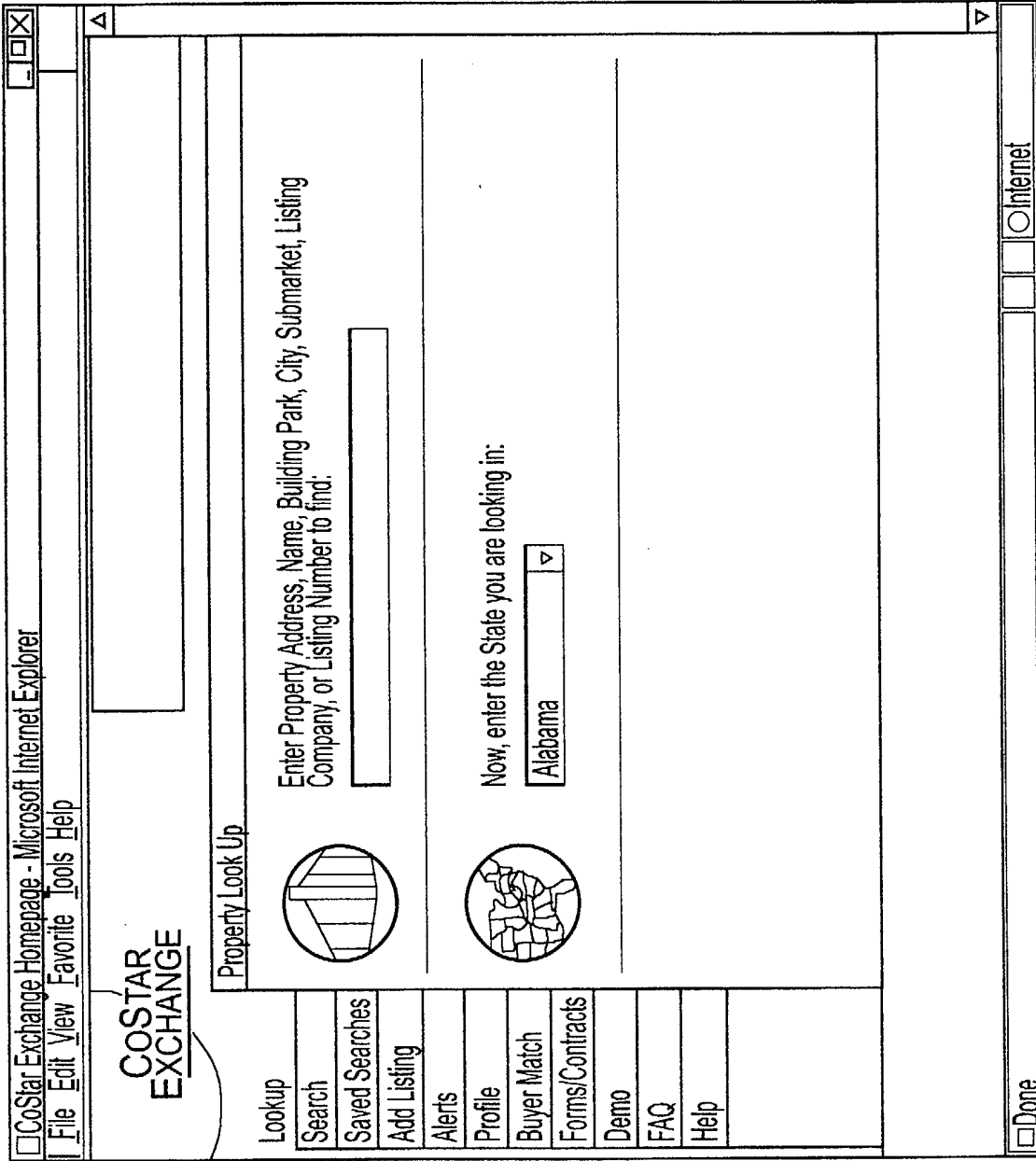


FIG. 43

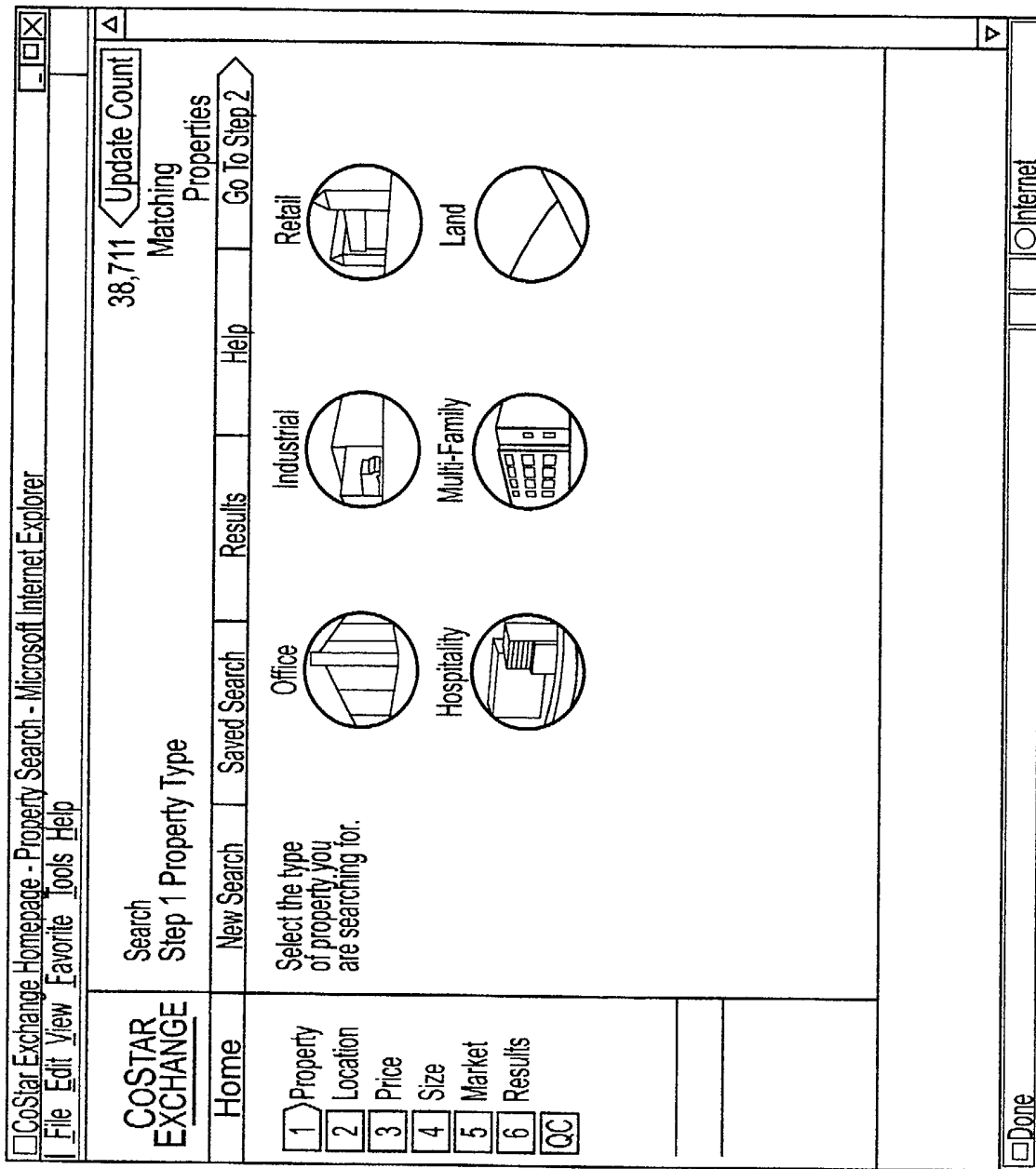
**COSTAR  
EXCHANGE**

Property Look Up Results List

Exchange Home  
 Print Results  
 New Lookup

Address	City	St	Pric	SF Size	Price/S	Cap	Type
1287 Central Park Plz	O'Fallon	IL	\$12,500,000	141,28	\$8		Retail
520 S Lafayette Park Pl	Los Angeles	CA	\$6,200,000	88,649	\$7		Office
16350 Park 10 Pl	Houston	TX	\$5,071,220	73,712	\$6	11.00	Office
8701 Park Place Blvd	Houston	TX	\$5,000,000	148,00	\$3		Office
16360 Park 10 Pl	Houston	TX	\$4,878,650	68,394	\$7	8.00	Indust
790 Park Pl	Long Beach	CA	\$3,200,000	75,000	\$4		Office
5121 Parkway Plaza Blvd	Charlotte	NC	\$2,550,000	23,000	\$111		Indust
6-9 Park Pl	Lodi	CA	\$875,000	28,000	\$3		Office
1975 Park Pl N	Atlanta	GA	\$600,000	10,352	\$5		Indust
7627 Park Place	Green Oak Two	MI	\$525,000	11,400	\$4		Office
1950 Park Pl N	Atlanta	GA	\$450,000	6,000	\$7		Indust
Park Pl	Kissimmee	FL	\$450,000				Office
1021 Park Pl	Wilmington	DE	\$279,000	2,000	\$140		Land
11362 Monier Park Pl	Rancho Cordova	CA	\$250,000	5,000	\$5		Office
46 Park Pl	Branford	CT	\$225,000				Indust
11358 Monier Park Pl	Rancho Cordova	CA	\$213,75	3,750	\$5		Land
1801 Park Court Pl	Santa Ana	CA	\$107,20	13,400	\$		Indust
Park Plaza Dr	Cerritos	CA					Land
Cherry Park Dr @ Copperfi...	Houston	TX					Land
Park Plaza Dr	Cerritos	CA					Land

**FIG.44**



104

1102

FIG.45

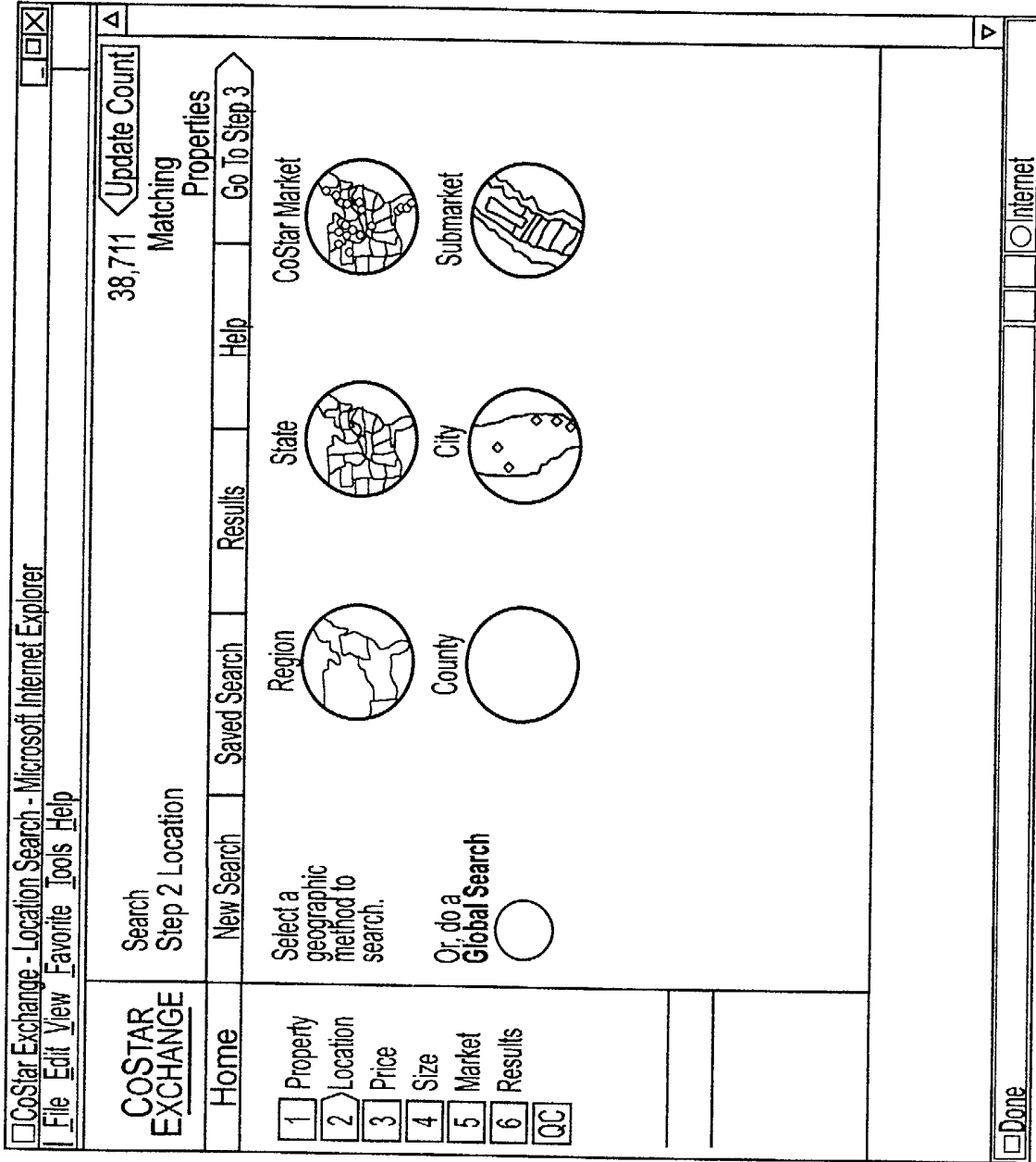
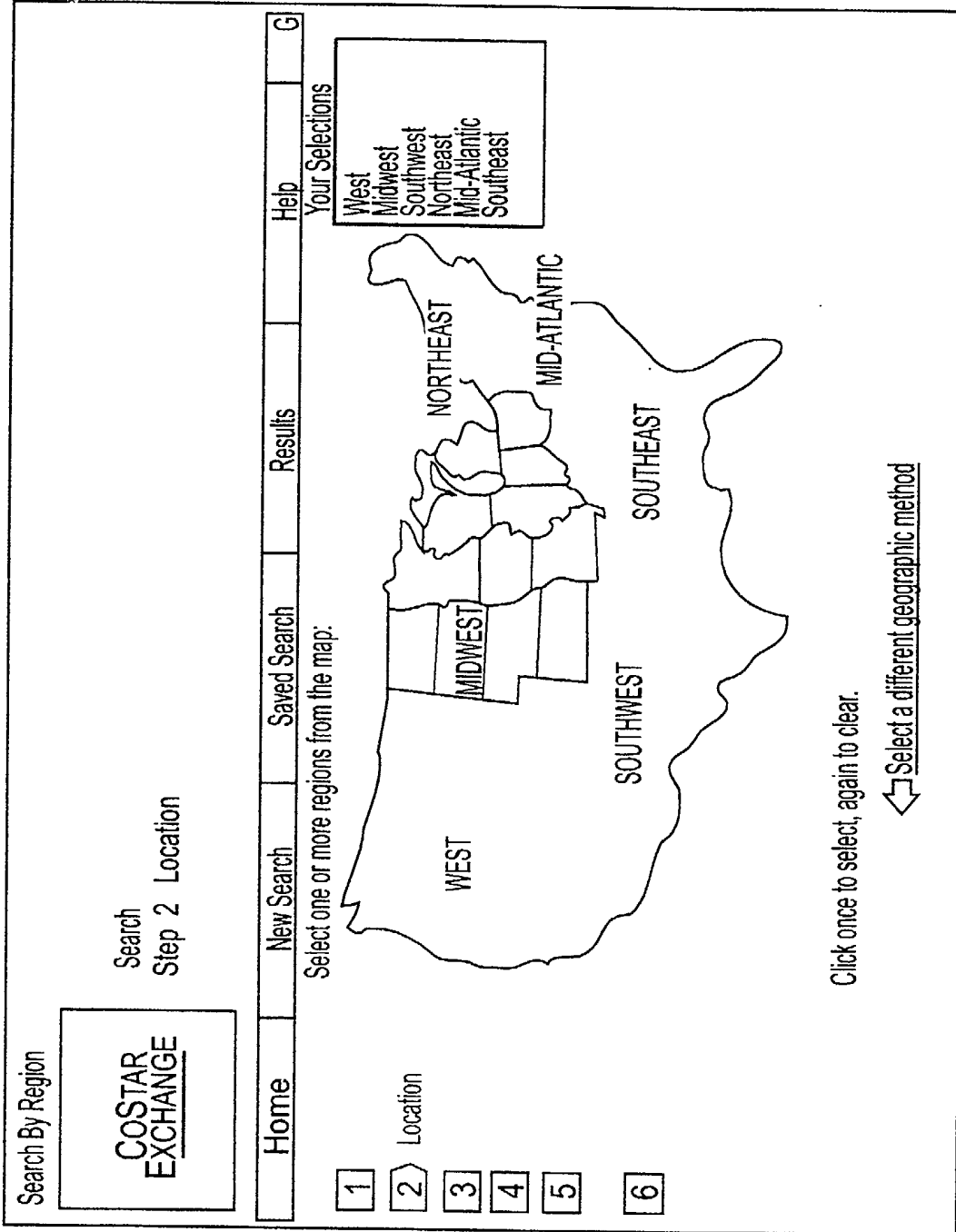


FIG.46



**FIG.47**



http://208.205.186.21/ExchangeS/Query/Search/PriceOffice.asp - Microsoft Internet Explorer  
 File  Edit  View  Favorite  Tools  Help

---

**COSTAR EXCHANGE**

Home     Search Step 3 Price     Saved Search     Results     Help     Update Count 38,711     Matching Properties     Go To Step 4

Specify the financial condition of your search. You can choose both high and low ranges or just one condition.

Key Indicators

Sale Price    \$     To   
 Price/SF    \$     To   
 Cap Rate    %     To

Annual Income Values

Gross Income    \$     To   
 Net Operating Income    \$     To   
 Pre Tax Cash Flow    \$     To

Financing

Down Payment    \$     To   
 Loan Amount    \$     To   
 Loan Payment    \$     To      Annual     Monthly

Assessed Values

Assessed Land Value    \$     To      Total     Per SF  
 Assessed Improvement    \$     To      Total     Per SF  
 Total Assessed Value    \$     To      Total     Per SF  
 Ratio of Land/Improvements    %     To   
 Asking Price/Assessed Value    %     To

Done

FIG.48

CoStar Exchange - Size Search - Microsoft Internet Explorer

File Edit View Favorites Tools Help

**COSTAR EXCHANGE** Search 38,711  Matching Properties

Step 4 Size

Home New Search Saved Search Results Help Go To Step 5

Specify the size and features you want CoStar Exchange to find.

**1** Property  
**2** Location  
**3** Price  
**4** Size  
**5** Market  
**6** Results  
**QC**

**Size**

Total Rentable Space SF  To

Typical Floor Size SF  To

Stories  To

**Characteristics**

Year Built  To

Year Built or Renovated  To

Total Available SF  To

Percent Leased  To  %

Asking Rental Rates/SF \$  To

Building Class  A  B  C

Use  Income Property  
 Owner/User

Occupancy  Multi Tenant  
 Single Tenant

Occupancy  Multi Tenant  
 Single Tenant

Building Status  Existing  
 Under Construction  
 Proposed

Flex Buildings  Do Not Include

**Company**

Listing Brokerage Company

Done  Internet

**FIG.49**

CoStar Exchange - Market Search - Microsoft Internet Explorer

File Edit View Favorite Tools Help

COSTAR EXCHANGE Search Step 4 Size 38,711 Matching Properties Update Count

Home New Search Saved Search Results Help Get Results

Specify the market conditions you want CoStar Exchange to find.

**1** Property  
**2** Location  
**3** Price  
**4** Size  
**5** Market  
**6** Results  
 QC

**Vacancy & Absorption**

Vacancy Rate In Region  To  %  
 In Submarket  To  %

Point Increase Last 12 Months In Region  To   
 In Submarket  To

Point Decrease Last 12 Months In Region  To   
 In Submarket  To

12 Months Gross Absorption In Region  To  SF  
 In Submarket  To  SF

12 Months Net Absorption In Region  To  SF  
 In Submarket  To  SF

Asking Rental Rates/SF In Region \$  To   
 In Submarket \$  To   Annual  Monthly

**Inventory Ratios**

Ratio of Net Absorption/Inventory In Region  To   
 In Submarket  To

Ratio of Gross Absorption/Inv In Region  To   
 In Submarket  To

Ratio of Under Construction/Inv In Region  To   
 In Submarket  To

**Inventory**

Total Building Inventory SF In Region  To   
 In Submarket  To

Average Building Size SF In Region  To   
 In Submarket  To

Number of Buildings In Region  To   
 In Submarket  To

Under Construction SF In Region  To   
 In Submarket  To

Done Internet

FIG.50

CoStar Exchange - Search Results - Microsoft Internet Explorer  
 File Edit View Favorite Tools Help

**COSTAR EXCHANGE**

Home    New Search    Save Search    Add Property    Remove Property    View Details

Your Search Results  
 More than 250 properties found

Address	City	St	Price	SF Size	Price/SF	Cap	Class
1355 Peachtree St NE	Atlanta	GA	\$37,000,000	344,974	\$107		A
680 Murphy Ave SW	Atlanta	GA	\$20,000,000	1,100,000	\$18	5.00	C
1775 The Exchange SE	Atlanta	GA	\$12,000,000	97,708	\$123	8.00	B
1170 Howell Mill Rd NW	Atlanta	GA	\$10,000,000	210,000	\$48		
6250 Shiloh Rd	Alpharetta	GA	\$8,240,000	71,644	\$115		B
5801 Peachtree Dunwo...	Atlanta	GA	\$5,500,000	44,241	\$124		B
1409 Peachtree St NE	Atlanta	GA	\$5,500,000	22,231	\$247		B
1389 Peachtree St NE	Atlanta	GA	\$4,915,000	42,000	\$118		B
2115 Monroe Dr NE	Atlanta	GA	\$4,500,000	86,000	\$52		
1775 Water Pl SE	Atlanta	GA	\$4,500,000	125,000	\$36		B
1439 Peachtree St NE	Atlanta	GA	\$4,400,000	39,790	\$111		C
110 Nobel Ct	Alpharetta	GA	\$3,800,000	44,777	\$85		
133 Luckie St NW	Atlanta	GA	\$3,400,000	47,000	\$72		B

Too many records were selected.  
 Only first 250 records are shown.

Done    Internet

FIG. 51

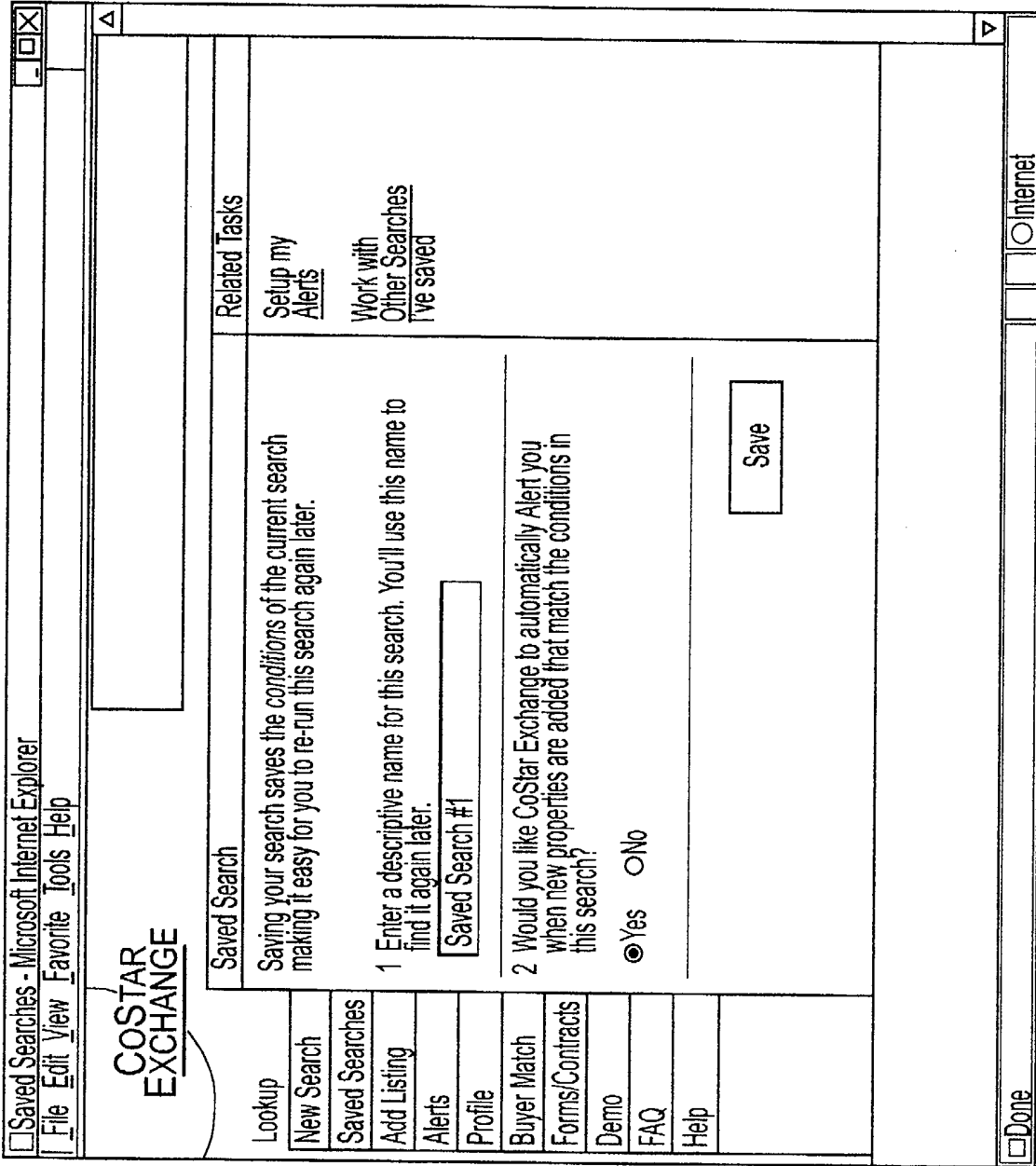


FIG.52

**COSTAR EXCHANGE**

of

▶ Next

◀ Back


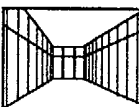
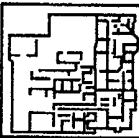

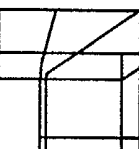
Results

Remove

□ Print

☆ New Search

**9911 West Pico Blvd**  
 Century Park Center  
 Los Angeles, California  
 Class A Office Building of 282,000 SF Offered at \$49,500,000

Overview	Financial	Tenants	Market	Comps	Map	
<b>Investment Summary</b>						
 Building	Price:	<b>\$49,500,000</b>	Building Size:	<b>282,000SF</b>		
	Price/SF:	<b>\$175.98</b>	Land Area:	<b>16,560SF</b>		
	Cap Rate:	<b>8.52%</b>	Year Built:	<b>1973, Renov 1987</b>		
	Percent Leased:	<b>96.0%</b>	Sales Status:	<b>Under Contract</b>		
<b>Highlights</b>						
The property offers upside potential in the rental income. It has maintained historically high occupancy of 90% or greater. Credit tenants account for 65% of the leased space and included Source Capital and several others. The building was completely renovated in 1987 at a cost of over \$6,000,000.						
<b>Property Description</b>						
 Lobby	Building Size:	<b>282,000SF</b>	Building Class:	<b>Class A</b>		
	Number of Floors:	<b>16</b>	Land Area:	<b>16,560SF</b>		
	Typical Floor Size:	<b>13,200SF</b>	Lot Dimensions:	<b>120x180</b>		
	Core Factor:	<b>11.4%</b>	Building FAR:	<b>13.2</b>		
 Floor Plan	Elevators:	<b>4</b>	Zoning:	<b>LAC2-IVL&amp;O</b>		
	Percent Leased:	<b>96.0%</b>	Parking Ratio:	<b>3.8:1000SF</b>		
	Available Space:	<b>55,731SF</b>	Open Parking:	<b>350</b>		
	Vacant Space:	<b>23,000SF</b>	Covered Parking:	<b>722</b>		
 Aerial	Number Tenants:	<b>33</b>	Parking Spaces:	<b>1,072</b>		
	Avg Tenant Size:	<b>8,545SF</b>	Parking Rates:	<b>\$120 Reserved</b>		
	▶ Tenants enjoy ocean views and mountain views from all floors. The property is conveniently located between Century Park East and Roxbury Drive.					
	<b>Assessment Values</b>					
 Map	Assmt Land:	<b>\$24,150,000</b>	Property Tax Rate:	<b>1.023%</b>		
	Assmt Improvements:	<b>\$10,350,000</b>	Annual Property Tax:	<b>\$560,000</b>		
	Total Assmt:	<b>\$34,500,000</b>	Property Tax/SF:	<b>\$2.01</b>		
	<b>Location</b>					
Metro Market: <b>Los Angeles</b> County: <b>Los Angeles</b> Submarket: <b>West Los Angeles</b> Zip Code: <b>90035</b>						
Map Book/Page: <b>41-C-15</b> Block/Lot: <b>Not Specified</b> Parcel Number: <b>413-01-297</b>						
▶ Comments about the location will go here						

CONT. ON FIG. 53B

**FIG. 53A**

CONT.FROM FIG. 53A

Downloads	<b>Building Team</b>
Financial	Property Manager: <b>Arden Realty</b>
Risk & Sensibility	Developer: <b>NoSpecified</b>
Pro Forma Income	Architect: <b>GenslerAssoc</b>
Cash Flow Assumption	CoStar Contact: <b>Andrew Harris</b>
10 Yr Cash Flow Schedule	(301)917-1970 (phone)
Tenant	(800)603-1301 (fax)
Rent Roll	<b>Transaction Guidelines</b>
Other Tenant Info	Sales Status: <b>UnderContract</b>
PIX Tour	Marketing: <b>October7,1999-December14,1999</b>
Pico & Elm	Final Offers: <b>January15,2000</b>
Lobby	Contract Signing: <b>February15,2000</b>
	Closing: <b>April15,2000</b>
	Active on Exchange: <b>October28,1999</b>
	Last Update: <b>November11,1999</b>
	Days on Market: <b>38</b>
	<b>Presented By</b>
	<b>BeitlerRealtyServices</b>
	825S.Barrington
	LosAngeles,CA90025
	<b>BarryBeitler</b>
	310-820-2955(phone)
	310-820-2956(fax)
	<a href="http://www.beitler.com">www.beitler.com</a>

**FIG.53B**

Office Financial - Microsoft Internet Explorer

File Edit View Favorite Tools Help

**COSTAR EXCHANGE**

2 of 257

Next

Back

Results

Remove

Print

New Search

**9911 West Pico Blvd.**  
 Century Park Center  
 Los Angeles, California  
 A 282,000 SF Office Building Offered at \$49,500,000

Overview Financial Tenants Market Comps Map

**Financial Overview**

Price: **\$49,500,000** Use: **Income Property**  
 Price/SF: **\$175.98** Cap Rate: **8.52%**

**Financial Worksheet**

Change a field in the worksheet and click "calculate" to refresh the section with new numbers.

Down Payment:	\$2,308,150	Price: \$	<input type="text" value="20,000,000"/>
New Loan:	\$20,000,000.00	Cap Rate:	<input type="text" value="5.00"/> %
Net Operating Income:	\$1,000,000	Down Payment:	<input type="text" value="30"/> %
Loan Payment:	\$520,012	Interest Rate:	<input type="text" value="0.00"/> %
Pre-Tax Cash Flow:	\$172,433	Loan Term:	<input type="text" value="30"/>

**Income & Expense**

Gross Income:	\$6,627,000	Taxes:	\$560,000
Other Income:	\$1,405,000	Insurance:	\$109,784
Vacancy Allowance:	\$(401,600)	Utilities:	\$871,090
Operating Expenses:	\$(3,418,200)	Wages:	\$423,691
Net Operating Income:	\$4,218,200	Maintenance:	\$409,000
Loan Payment:	\$(3,381,948)	Management:	\$275,000
Pre-Tax Cash Flow:	\$836,252	Misc/Reserves:	\$813,635
Current Asking Rent/SF:	\$26.10	Total Est Expenses:	(\$3,412,200)
Est Average Rent/SF:	\$23.50	Est Expenses/SF:	\$12.10

**Existing Financing**

Lender:	<b>First Union</b>	Existing Loan:	\$925,000
Loan Payment:	\$88,368	Interest Rate:	8.0
Due Date:	<b>November 1, 2027</b>	Loan Term:	30

Done  Internet

FIG.54



Office Tenants - Microsoft Internet Explorer

File Edit View Favorite Tools Help

**COSTAR EXCHANGE**

2 of 257

Next

Back

Results

Remove

Print

New Search

**9911 West Pico Blvd.**  
 Century Park Center  
 Los Angeles, California  
 A 282,000 SF Office Building Offered at \$49,500,000

Overview Financial **Tenants** Market Comps Map

Tenant information provided by CoStar Tenant

**Tenants Tracked**

Suite	Tenant	Occupancy SF	Bldg %	Industry	Expires	Est Rent
102	Tenant Healthcare	30,688	10.9%	Health	1/2/03	\$21.00
205	Micromedia New England Corporation	13,850	4.9%	Media		
550	Source Capital	13,841	4.9%	Financial		
110	US Post Office			Government		
200	24 Hour Fitness			Retail		
300	Hoover & Chase Attorneys			Legal		
920	Eagle Financial			Legal		
1600	Mario's Nightclub			Service		
Tenant Subtotals:		74,880	26.5%			
Unspecified Tenants:		147,389	52.3%			
Vacant Space:		55,731	19.8%			
Building Total:		282,000	100.0%			

**Tenant Analysis**

Tenants in Building:	33	Percent Occupied:	96.0%
Average Tenant Size:	8,554 SF	Est Rollover Next 12 Months:	25,450 SF
Average Lease Term:	31 Months	Est Rollover next 36 Months:	36,500 SF
Est Average Rent/SF:	\$23.50	Current Asking Rent/SF	\$26.10

**Tenant Notes**

Any tenant notes will go here and if there are none, this section will be suppressed.

Done  Internet

FIG.55

Office Market - Microsoft Internet Explorer

File Edit View Favorite Tools Help

**COSTAR EXCHANGE**

2 of 257  
Next  
Back  
Results  
Remove  
Print  
New Search

**9911 West Pico Blvd.**  
Century Park Center  
Los Angeles, California  
A 282,000 SF Office Building Offered at \$49,500,000

Overview Financial Tenants Market Comps Map

Market information provided by CoStar Property

Size Vacancy

	Subject Property	Class A Office Properties West LA	Office Properties West LA	Office Properties Los Angeles
Number of Buildings:	1	320	1,268	7,225
Total Rentable Space:	282,000 SF	42,084,970 SF	61,790,134 SF	338,590,353 SF
Average Building Size:	282,000 SF	131,515 SF	48,731 SF	46,864 SF
Average Tenant Size:	8,545 SF	7,500 SF	7,105 SF	6,642 SF
Average Building Age:	26 YRS	21 YRS	19 YRS	17 YRS
Percent Leased:	96.0%	94.6%	91.0%	85.8%
# Available Spaces:	12	854	1,426	9,476
Available Space:	23,000 SF	4,372,598 SF	7,836,351 SF	58,802,084 SF
Avg Available Space:	23,000 SF	36,500 SF	21,500 SF	22,000 SF
Vacant Space:	23,000 SF	2,932,402 SF	4,483,173 SF	42,846,930 SF
Avg Vacant Space:	23,000 SF	35,000 SF	24,500 SF	23,000 SF
Vacancy Rate:	8.20%	5.40%	6.20%	11.75%
Vacancy YAG:	4.60%	8.70%	8.50%	13.20%
Vacancy Rate vs YAG:	-3.60	+3.30	+2.30	+1.55

Inventory/Absorption

	Subject Property	Class A Office Properties West LA	Office Properties West LA	Office Properties Los Angeles
Total Existing Space:	282,000 SF	40,290,320 SF	59,711,779 SF	326,853,331 SF
Under Construction:	0	1,135,000 SF	1,193,000 SF	3,783,310 SF
Renovation:	0	391,328 SF	559,972 SF	1,718,345 SF
Proposed:	0	268,322 SF	325,383 SF	6,235,367 SF
Total Rentable Space:	282,000 SF	42,084,970 SF	61,790,134 SF	338,590,353 SF
12 Months Gross Absp:	40,174 SF	3,698,607 SF	15,811,532 SF	24,260,592 SF
12 Months Net Absp:	15,656 SF	848,195 SF	3,604,829 SF	2,302,255 SF

Price/Rate

	Subject Property	Class A Office Properties West LA	Office Properties West LA	Office Properties Los Angeles
Avg Asking Price/SF:	\$175.98	\$181.90	\$128.60	\$101.55
Avg Asking Rents:	\$26.10	\$30.60	\$30.36	\$28.25
Avg Asking Rents YAG:	\$28.10	\$34.85	\$32.57	\$29.85
Rent Change vs YAG:	+\$2.00	+\$3.45	+\$2.51	+1.16

Updated October 28, 1999

Done Internet

FIG.56

Office Comps - Microsoft Internet Explorer

File Edit View Favorite Tools Help

**COSTAR EXCHANGE**

2 of 257  
Next  
Back  
Results  
Remove  
Print  
New Search

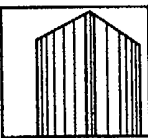
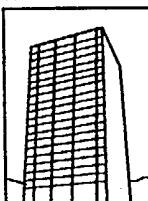
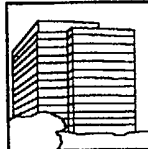
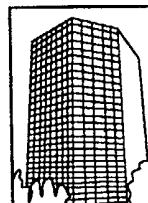
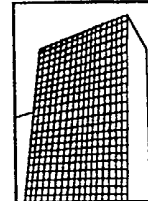
**9911 West Pico Blvd.**  
Century Park Center  
Los Angeles, California  
A 282,000 SF Office Building Offered at \$49,500,000

Overview Financial Tenants Market Comps Map

Comparable sales information provided by Comps, Inc.

Comparable Sale Properties

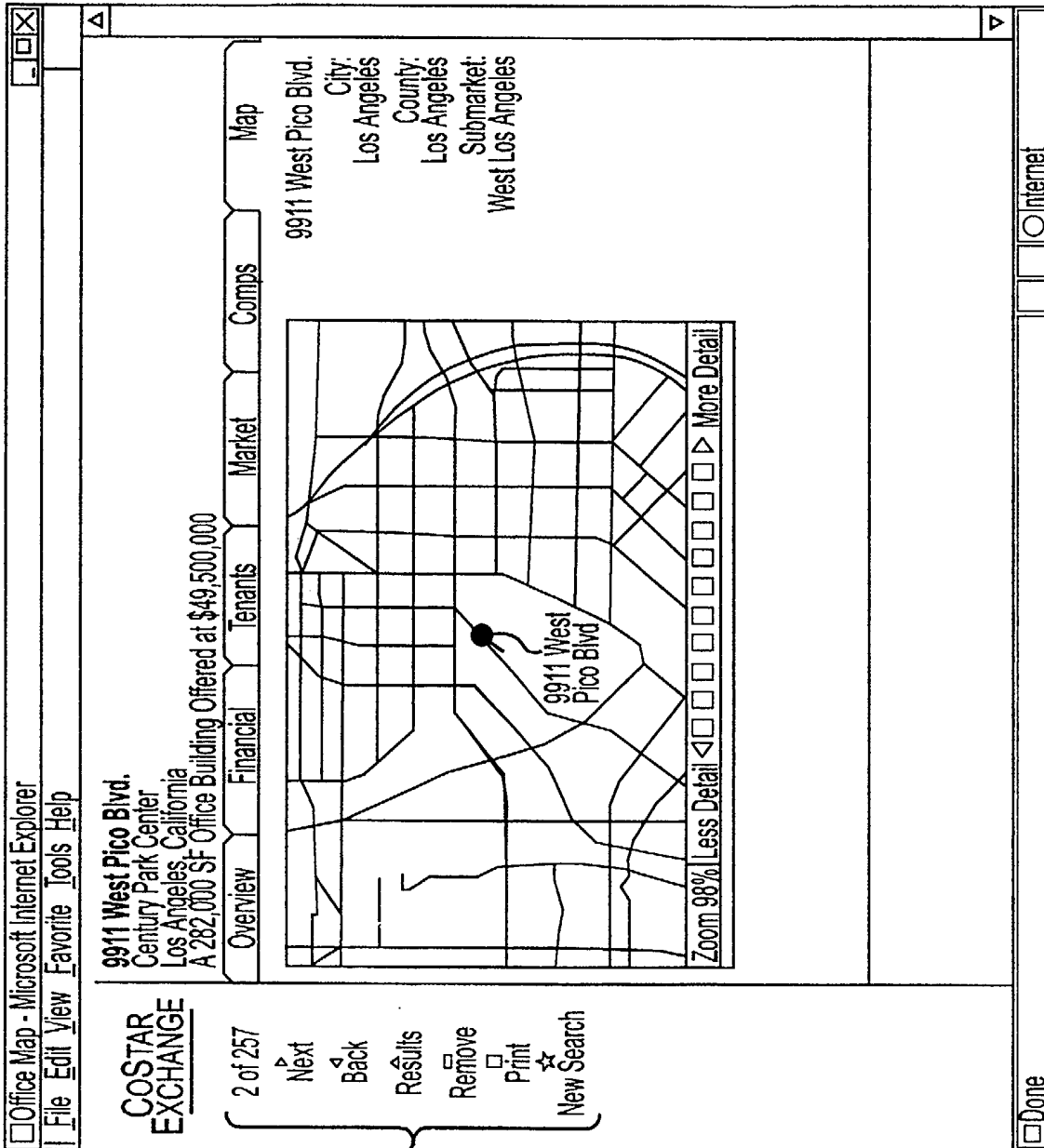
Show Comparable Properties Sorted by: 2306

Address	City	Distance	Building Size	Year Built	Sale Price	Price/SF	Cap Rate	Sale Date
 9911 West Pico Blvd	Los Angeles, CA	0.1 miles	245,413 SF	1981	\$49,500,000	\$199.83/SF	N/A	
			Building Class: Class A Office			Price: \$49,500,000		
			Building Size: 245,413 SF			Price/SF: \$199.83/SF		
			# of Floors: 16 Floors			Cap Rate: N/A		
			Year Built: 1981					
								Subject Property <a href="#">Full Details</a>
 100 Wilshire Blvd	Santa Monica, CA	0.1 miles	245,414 SF	1968	\$90,000,000	\$177.65/SF	N/A	June 3, 1996
			Building Class: Class A Office			Sold Price: \$90,000,000		
			Building Size: 245,414 SF			Price/SF: \$177.65/SF		
			# of Floors: 16 Floors			Cap Rate: N/A		
			Year Built: 1968			Sale Date: June 3, 1996		
								Buyer: Lehman Brothers Partnership Corporation 0.1 miles from Subject <a href="#">Full Details</a>
 401 Wilshire Blvd	Santa Monica, CA	0.1 miles	325,249 SF	1971	\$90,000,000	\$177.65/SF	N/A	June 5, 1996
			Building Class: Class A Office			Sold Price: \$90,000,000		
			Building Size: 325,249 SF			Price/SF: \$177.65/SF		
			# of Floors: 16 Floors			Cap Rate: N/A		
			Year Built: 1971			Sale Date: June 5, 1996		
								Buyer: Douglas Emmett 0.1 miles from Subject <a href="#">Full Details</a>
 11755 Wilshire Blvd	Los Angeles, CA	0.4 miles	317,249 SF	1986	\$90,000,000	\$173.77/SF	8.00%	June 15, 1998
			Building Class: Class A Office			Sold Price: \$90,000,000		
			Building Size: 317,249 SF			Price/SF: \$173.77/SF		
			# of Floors: 16 Floors			Cap Rate: 8.00%		
			Year Built: 1986			Sale Date: June 15, 1998		
								Buyer: CALSTRS 0.4 miles from Subject <a href="#">Full Details</a>
 1900 Avenue of the Stars	Los Angeles, CA	0.5 miles	596,384 SF	1969/1992	\$90,000,000	\$173.77/SF	8.00%	June 28, 1998
			Building Class: Class A Office			Sold Price: \$90,000,000		
			Building Size: 596,384 SF			Price/SF: \$173.77/SF		
			# of Floors: 16 Floors			Cap Rate: 8.00%		
			Year Built: 1969/1992			Sale Date: June 28, 1998		
								Buyer: Divco West Properties 0.5 miles from Subject <a href="#">Full Details</a>

2302 2304

Done Internet

FIG.57



2402

FIG.58



Product & Services Corporate Info Support Contact Us Site Map

**Building Questionnaires**

Please select the type of property you wish to profile in CoStar Property:

- o For Lease Properties
  - o Office
  - o Industrial
- o For Sale Properties
  - o *Coming Soon!*

If you prefer to fax your questionnaire, click on the link to download the corresponding form in PDF format\*.

- o Office
- o Industrial

**Please note:** Data that is submitted by this questionnaire will be transmitted to CoStar Group's Research Division for entry into CoStar Property. This **does not** submit data directly into CoStar Property. For more information, please contact CoStar Group at [info@costargroup.com](mailto:info@costargroup.com).

Home Products & Services Corporate Info Support Contact Us Site Map  
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**FIG.59**

**COSTAR**  
**GROUP**

NOTE: Fields in **boldface** are required

Entered By  E-mail Address

**Jo Do**  **do@do.com**

Building Address

**Do Building**  Building Park

Building Name

City  State

**Washington**  **DC**

Building Status

Existing  
 Under Construction  
 Under Renovation  
 Proposed  
 Land

Building Type

Office  
 Condo/Coop  
 Professional/Medical

Taxes

Year

Taxes  /SF

Operating  /SF

I am the Leasing Contact  
 Building Web Site Address

Submarket

County

**DC**

Parking

Parking Ratio:  /1000

Covered:  Yes  No

Monthly Rate: \$

Surface:  Yes  No

Monthly Rate: \$

Total Rentable Building Area  SF

Stories  5

Land Area

Year Built

Year Renovated

SF  Acres  
 Typical Floor Size  SF

Owner Occupied  Yes  No

Zoning

Tenancy  Multi  Single

**FIG.60**

Loss/Core Factor <input type="text"/> %	Elevator <input type="checkbox"/> Passenger # <input type="text"/>	<input type="text"/> Suite Level Information >>>		
	<input type="checkbox"/> Freight # <input type="text"/>	<input type="button" value="Clear"/>		
<a href="#">Home</a>	<a href="#">Products &amp; Services</a>	<a href="#">Support</a>	<a href="#">Contact Us</a>	<a href="#">Site Map</a>
<a href="#">Terms of Use</a>	<a href="#">Privacy Policy</a>	<a href="#">Photo Restrictions</a>	<a href="#">Contact Us</a>	

**FIG.61**

# COSTAR GROUP

Product & Services Corporate Info Support Site Map  
**Office Building Questionnaire** Suite Level Information Contact Us Site Map  
Page 2 of 6

Square Feet Available

Total		Max Contiguous on Floor	Space Type:	Space Use:
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input checked="" type="radio"/> Relet/Direct	<input checked="" type="radio"/> Office
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="radio"/> New	<input type="radio"/> Office/Retail
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="radio"/> Sublet	<input type="radio"/> Retail
<input type="text"/>	<input type="text"/>	<input type="text"/>		<input type="radio"/> Medical

Rent/SF (  Annually  Monthly )

\$  To \$

Occupancy  /

Services

Lease Term or Sublet Through Date

Suite Notes:

Cancel << Basic Building Info

Home Products & Services Corporate Info Support Site Map

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**FIG.62**



**COSTAR  
GROUP**

Floor	Suite	Square Feet Available	Space Type:	Space Use:
LBBY		Total (Not Divisible) 5,000	Relet/Direct	Office
Rent/SF	Services	Max Contiguous on Floor 2,500	Lease Term or Sublet Through Date	
To	Occupancy			
Suite Notes:	120 Days			

Floor	Suite	Smallest	Square Feet Available	Space Type:	Space Use:
BSMT			Total	Relet/Direct	Office
			Is Divisible	New	Office/Retail
			Max Contiguous on Floor	Sublet	Retail
					Medical

Rent/SF (  Annually  Monthly ) Services Occupancy Lease Term or Sublet through Date

\$  To \$  120 Days /

Suite Notes:

**Space Summary:**

Total SF Available: 5,000  
 Total Contiguous in Building:   
 Min. Contiguous Available: 5,000  
 Max. Contiguous Available: 2,500

**FIG. 63**

**COSTAR GROUP**

**Office Building Questionnaire**

Listing Company

Address

City, State, ZIP

Agent One

jo do

Title

Phone Number (w/ Area Code)

E-Mail Address

100@do.com

Cancel

Product & Services Corporate Info

Listing Contacts

Agent Two

Title

Phone Number (w/ Area Code)

E-Mail Address

Support

Phone Number (w/Area Code)

Ext

Fax Number

Web Address

Agent Three

Title

Phone Number (w/ Area Code)

Ext

E-Mail Address

Clear

Support

Photo Restrictions

Home

Terms of Use

Products & Services

Privacy Policy

Contact Us

Contact Us

Site Map

Site Map

Page 3 of 6

**FIG.64**

**COSTAR  
GROUP**

Product & Services   Corporate Info  
**Office Building Questionnaire**   Building Team

Support   Contact Us   Site Map  
 Page 4 of 6

Owner

Address

City, State, ZIP

Phone No.  Ext

Architect  Web Address

Developer  Web Address

Cancel

Management Company

Address

City, State, ZIP

Phone No.  Ext

Property Manager  Ext

Phone No.  Ext

Asset Manager  Phone No.  Ext

Clear

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Site Map   Contact Us

**FIG.65**

**COSTAR GROUP**

Product & Services Corporate Info Support [Site Map](#)

**Office Building Questionnaire** Marketing Notes/Amenities [Page 5 of 6](#)

Marketing Notes

**Amenities**

- Atrium
- Auditorium
- Balconies
- Banking
- Commuter Rail
- Concierge
- Conference Facility
- Convenience Store

Click once to select, again to deselect

<<Building Team

Major Tenants>>

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[Terms of Use](#) [Privacy Policy](#) [Contact Us](#)

**FIG.66**

<b>COSTAR</b>		Product & Services		Corporate Info	Support	Contact Us	Site Map
<b>GROUP</b>		Office Building Questionnaire		Major Tenants			Page 6 of 6
# Major Tenant Name	Square Feet						
1.	<input type="text"/>	<input type="button" value="Add"/>					
<input type="button" value="Cancel"/>	<input type="text" value=" &lt;&lt;Amenities/Mkt Notes"/>	<input type="button" value="Clear"/>		<input type="button" value="Submit Questionnaire"/>			
Home	Products & Services	Corporate Info	Support	Contact Us	Site Map		
<u>Terms of Use</u>	<u>Privacy Policy</u>	<u>Photo Restrictions</u>			<u>Contact Us</u>		

**FIG.67**



Product & Services Corporate Info Support Contact Us Site Map

Thank You!

Thank you for submitting your office questionnaire!

A CoStar Group research analyst will be contacting you shortly.

Please keep this tracking number for your records: **602**

[Click here to return to the CoStar home page](#)

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**FIG.68**

CoStar Exchange - Search Results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

← Back → Home Search Favorites History Home a A

Address  Go

Radio Play Radio Stations Software Radio

Links Big IP CoStar Exchange Exchange Mockups Free Hotmail Quick Search.exe Toggle images.exe >>

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**COSTAR EXCHANGE**

Home New Search Save Search Add Property Remove Property

**Your Search Results**  
7 Properties Found

Address	City	St	Price	SF Size	Price/SF	Cap	Class
1 World Trade Center	New York	NY	*\$1,500,000,000	*11,750,046			A
2 World Trade Center	New York	NY	*\$1,500,000,000	*11,750,046			A
4 World Trade	New York	NY	*\$1,500,000,000	*11,750,046			A
5 World Trade	New York	NY	*\$1,500,000,000	*11,750,046			A
6 World Trade	New York	NY	*\$1,500,000,000	*11,750,046			A
489 Fifth Aven			\$43,000,000	175,454	\$245.08	7.59	A
636 Avenue 0			\$30,000,000	70,200	\$427.35		B

\*Portfolio Values

691

692

2 World Trade Center

1 Property  
2 Location  
3 Price  
4 Size  
5 Market  
6 Results

Print View Map

FIG. 69

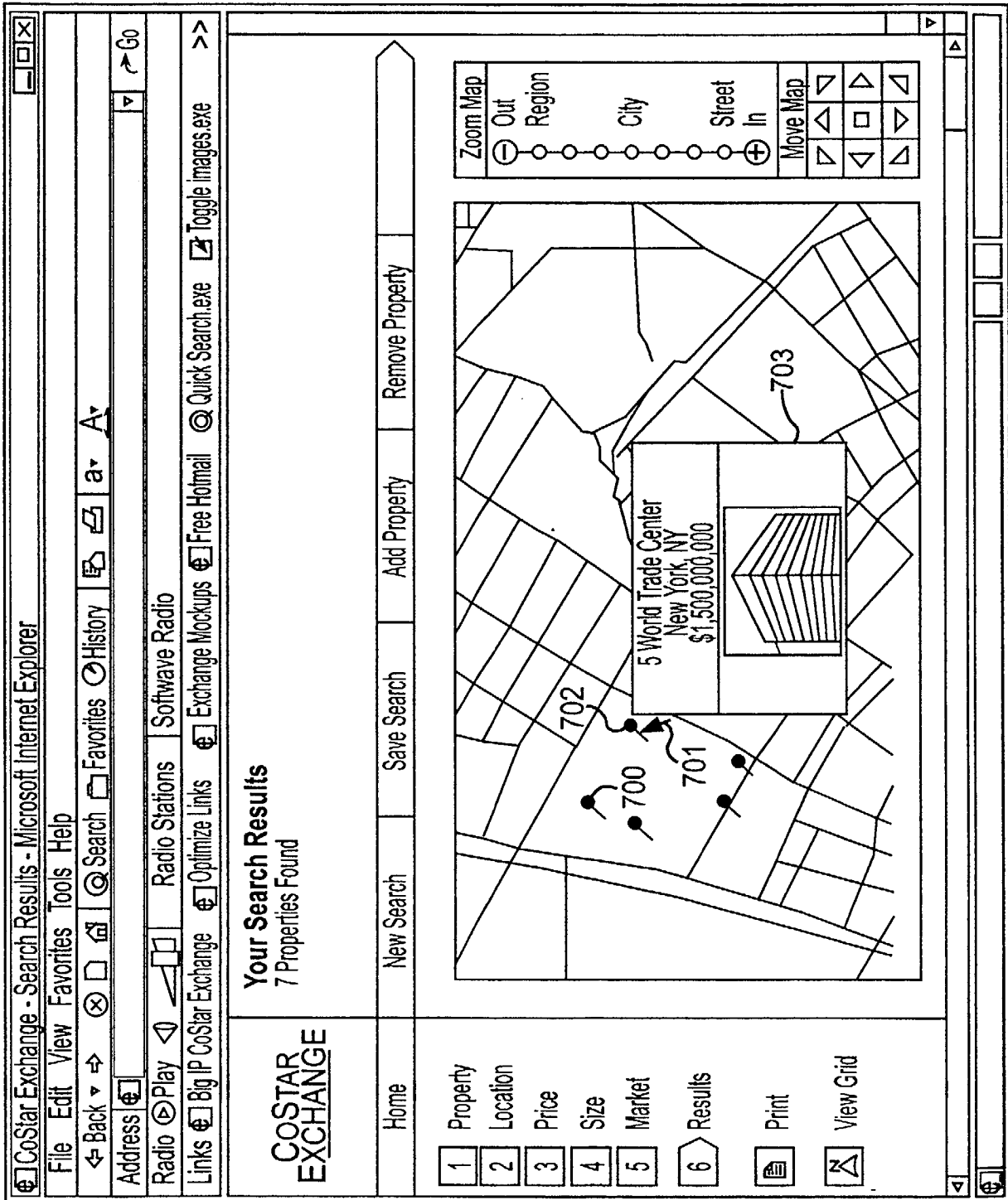


FIG.70



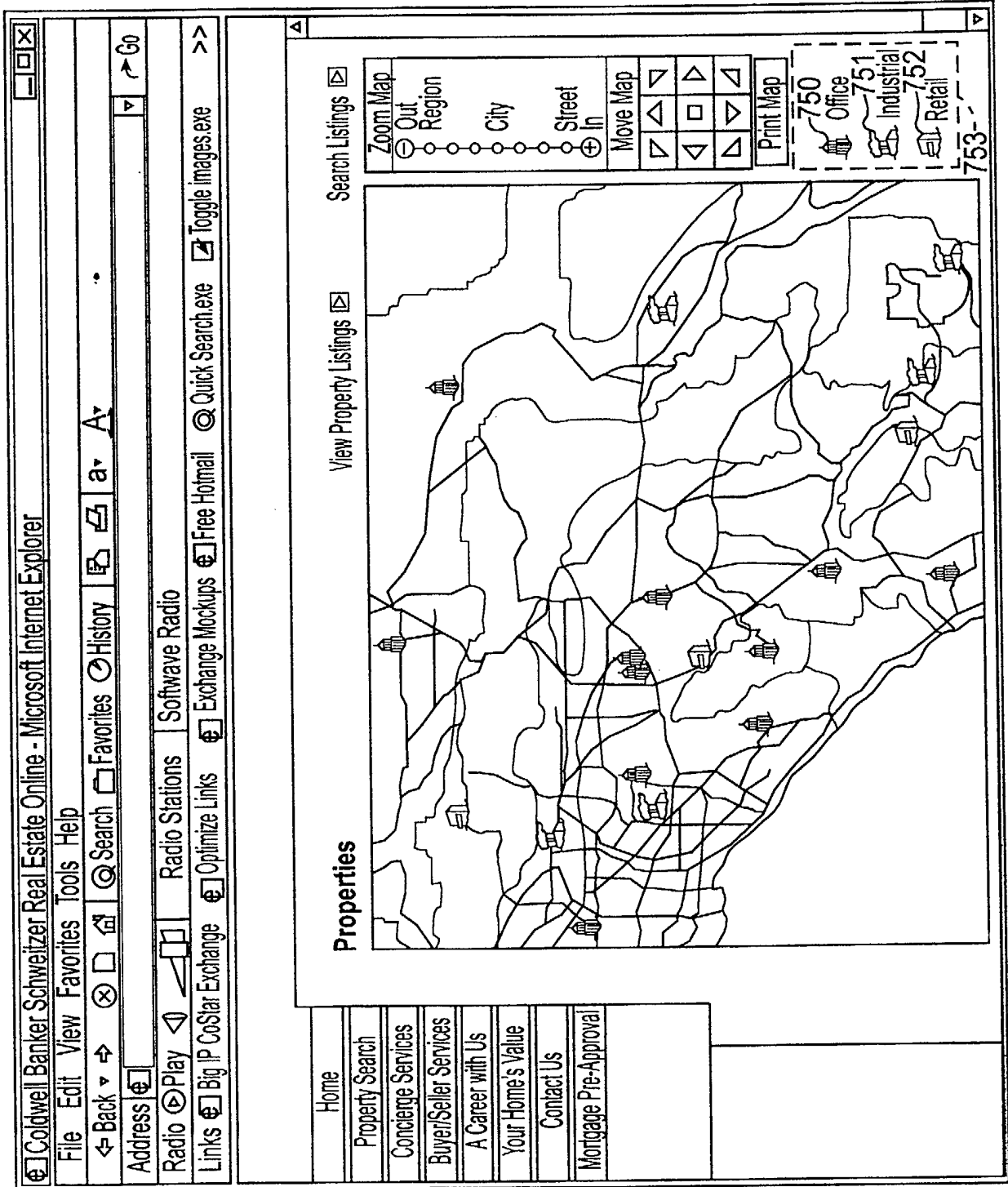
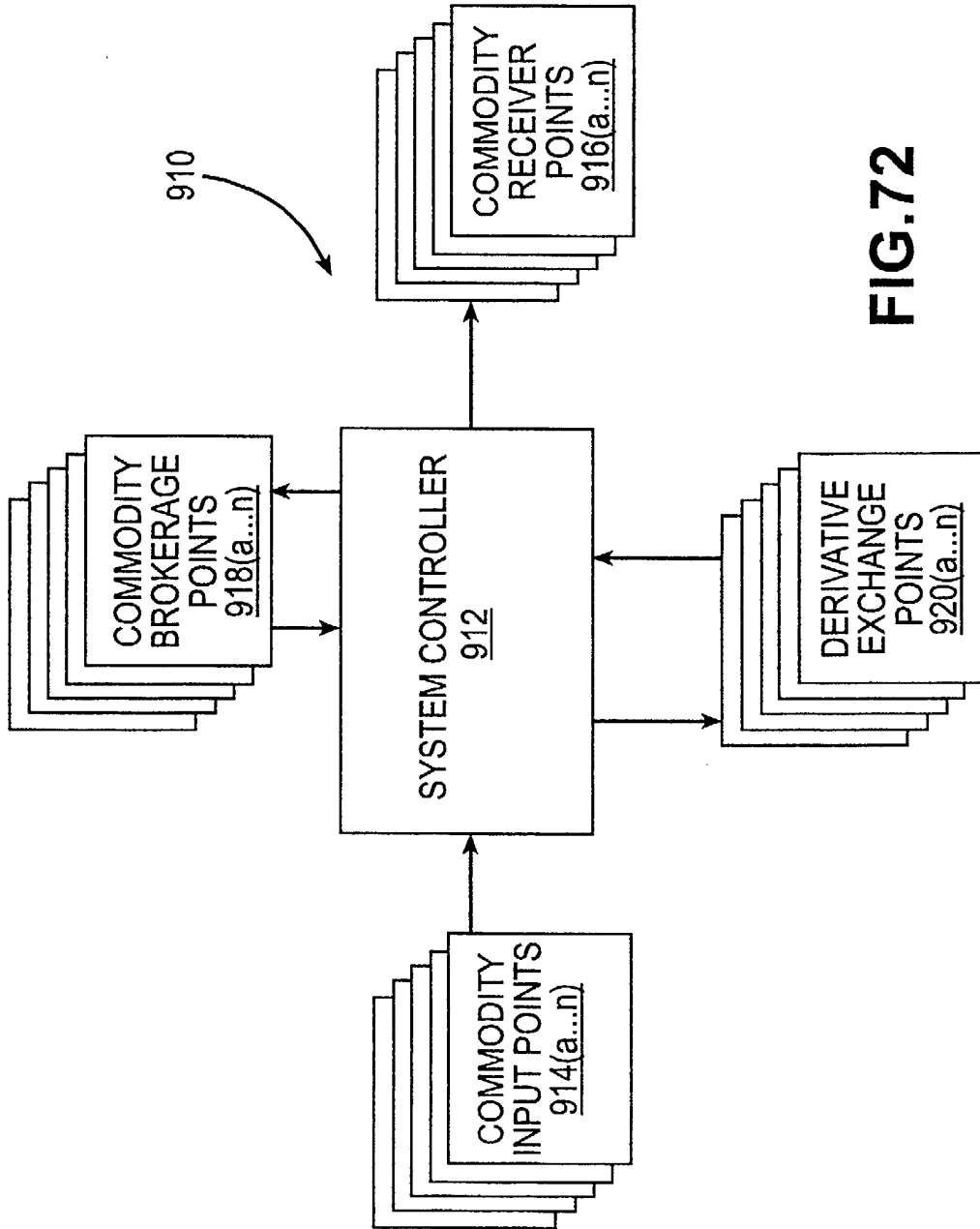
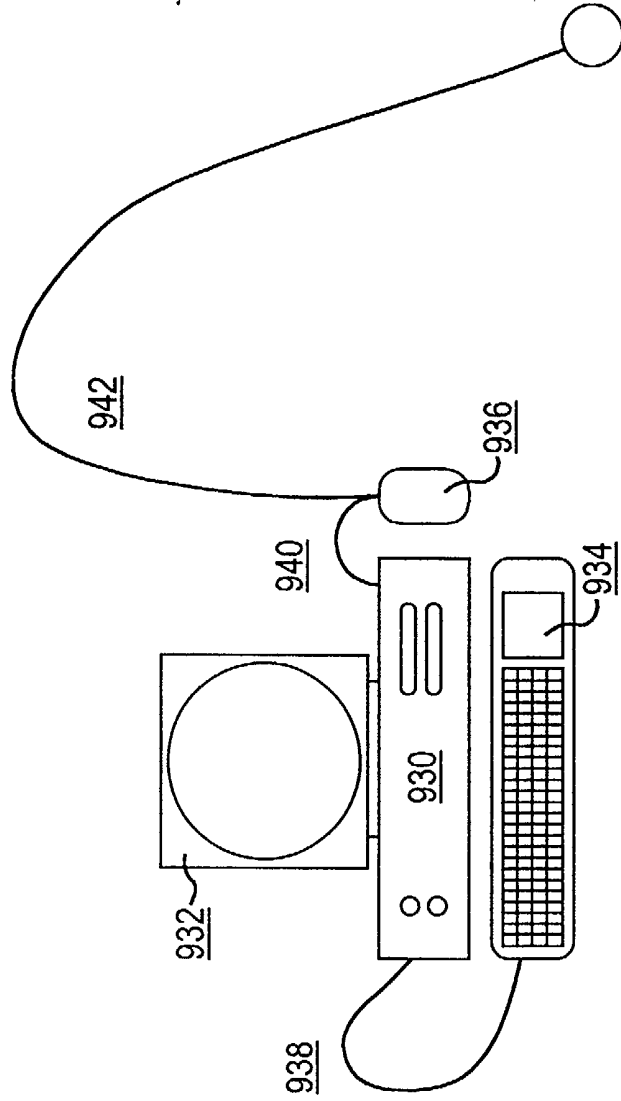


FIG. 71



**FIG.72**



**FIG. 73**

**SYSTEM AND METHOD FOR  
COLLECTION, DISTRIBUTION, AND USE OF  
INFORMATION IN CONNECTION WITH  
COMMERCIAL REAL ESTATE**

This application claims the benefit of the priority of the following provisional applications:

“Information Distribution System,” Application Serial No. 60/185,066, filed February 25, 2000;

5 “Information Distribution System,” Application Serial No. 60/185,392, filed February 28, 2000;

“System and Method For Collection, Distribution, and Use Of Information in Connection with Commercial Real Estate,” Application Serial No. 60/194,700, filed April 5, 2000; and

10 “System and Method For Collection, Distribution, and Use Of Information in Connection with Commercial Real Estate,” Application Serial No. 60/229,527, filed September 5, 2000.

These provisional applications are hereby incorporated by reference in their entireties.

15

**BACKGROUND**

**Field of the Invention**

The present invention broadly relates to the field of electronic commerce and global network information management services, and more specifically, to a system and method for creating a unified commercial real estate data model through collection, distribution and use of information in connection with commercial real estate and web-based information systems that facilitate the buying and selling of commercial real estate.

## **Background of the Invention**

Whether measured in terms of variety, volume, or value of transactions, the market for commercial real estate information is vast. In 1998, the U.S. commercial real estate market had: hundreds of thousand of leasing  
5 transactions, with an aggregate value of more than \$200 billion, and had tens of thousands of sales transactions, with an aggregate value of \$285 billion. In the same year, lenders, provided tens of thousands of commercial real estate loans, with an aggregate net value of more than \$110 billion, according to the Federal Reserve Board. F.W. Dodge reports that during 1998, construction commenced  
10 on 766 million square feet of commercial properties with an aggregate value of \$52 billion. Finally, vendors made \$10 billion in sales to tenants who were moving to new facilities, according to the Corporate Realty Design and Management Institute.

Despite its enormous size, the real estate industry in many ways is a  
15 backwater. In the current market, real estate brokers perform various functions. To begin with, individuals, institutions, and owner/users buy and sell buildings. The aggregate sales value of commercial properties sold in the United States in one year is about \$285 billion, according to a Federal Reserve estimate. Most transactions occur through the use of a commercial real estate  
20 broker, whose job is to list the asset for sale, disseminate the correct information, respond to questions and requests for specific information, attempt to create an auction atmosphere, and complete and close a sale. Brokers typically receive between 1% and 6% of the sales value of the property, with the lower commission rates corresponding to higher sales values.

25 Below a level of, about, \$5 million, sales are typically locally sourced to local users or individuals or small institutions. Beyond \$5 million and, more acutely, past \$10 million, the market becomes more regional as the buyer base narrows. Above \$25 million, the market becomes institutional in the sense that the potential buyers are REITs, pension funds, advisors, or corporations. At  
30 this level the market becomes national and, to some extent, international. It is critically important to limit the dissemination of information in this context.

In addition, every building that is not owner occupied must be leased. Brokers usually take one side of the transaction as either the listing broker or the tenant rep. Listing brokers list the space for the property owner and attempt to drum up interest in the space with flyers and information packages. 5 Brokers also typically specialize in a type of property and in a region, so their added value is in knowing who is most likely to want a specific space for lease. Tenant representatives usually represent the tenant and are specifically looking for space for expansion or to enter a new market. Tenant representatives consolidate all the listing information from the listing brokers in a market for a 10 specific type of space, conform the package, and help the user make an informed decision. Many individual brokers do both.

The real estate industry is so large and fragmented that, historically, there has been no meaningful national research. Research that does exist is typically local or regional in nature, frequently limited to occupancy and rental 15 rate information, and most of the time only marginally accurate. From market to market, different data was kept by the administrative assistant for a couple of local brokers, who would then hold that out as proprietary knowledge in that particular market. Ten years ago this was out of date; by today's standards, it is completely useless. With the trend towards much more liquid real estate 20 markets and the dominance of large regional and national tenants and capital providers, the need for accurate national data has become acute.

At present, however, transaction costs are high, and information is non-standardized as states, cities, and local communities all have their own rules and regulations. To add to the milieu of confusion, investors and owners 25 frequently have different tax statuses, so comparisons are never apples-to-apples. Brokers typically use this to their advantage - their pitch becomes "I am the only one that knows all this stuff, and if you don't use me, what you don't know can hurt you." A helpful way to think about this would be to imagine that each securities brokerage firm maintained its own exchange, instead of them all 30 feeding the NYSE and NASDAQ. Clients would have little chance of getting the best execution since there would be a closed market only. To some extent, real

estate has operated this way historically, except that each of the brokerage firms referred to these closed networks as "proprietary information."

Over the past 15 years, however, a new class of investors and users has opened up the business. National institutional owners like the REITs and large ERISA managers like Jones Lang LaSalle have created a need for standardized, reliable information and processes. This, in turn, has led to a mass consolidation among the smaller local and regional brokers. This trend toward a national information standard is becoming more powerful. The old model of the local power broker is being replaced by a single-point-of-contact model for national real estate companies, in which client needs are met with just one relationship. The only way a small brokerage firm can level the field is by having access to the same information as the larger brokers.

It has been long demonstrated in other contexts, e.g., the securities industry, that distributed information improves market efficiency. In the securities industry each broker has a system on their desk that gives them access to standardized, accurate securities pricing information. Largely, information is collected by the exchanges and consolidated into a standard system of quotes and news. The vendors of the information try to figure out the best way to graphically present the information and to price the data feed to maximize revenue. For the most part, the major quote and information providers are all providing the same thing. The present invention relates to a way of applying this approach to real estate information. By centralizing and standardizing the information, it has made it much more user friendly and, hence, valuable. It has created a digital exchange with itself as the sponsor.

To facilitate transactions, industry participants must have, extensive, accurate, and current information. Members of the commercial real estate and related business community require daily access to current data such as rental rates, vacancy rates, tenant movements, supply, new construction, absorption rates, and other important market developments to carry out their businesses effectively. Such data collection is time-consuming, as shown by a 1996 study, which found that commercial real estate professionals spent 40% of their

workday collecting and analyzing information on the real estate market.

Therefore, there is a need for a unified commercial real estate data model to develop an efficient marketplace, where members of the commercial real estate and related business community can exchange information, evaluate

5 opportunities using national standardized data, and interact with each other on a continuous basis.

The parties involved in the commercial real estate and related business community that require extensive information, include: sales and leasing brokers; property owners; property management firms; design and construction  
10 firms; real estate developers; real estate investment trusts; investment banks; commercial banks; investors and asset managers; government agencies; mortgage-backed security issuers; appraisers; media; tenant vendors; building services vendors; communications providers; insurance companies and institutional advisors.

15

The commercial real estate related business community has yet to develop an efficient marketplace because of the fragmented approach to gathering and exchanging information within the marketplace, i.e., the lack of a unified data model. Various organizations, including hundreds of brokerage  
20 firms, directory publishers, and local research companies, have attempted to collect data on specific territories and to develop software to analyze the information they have independently gathered. This fragmented approach resulted in duplication of effort in the collection and analysis of information, excessive internal cost, non-standardized data with varying degrees of accuracy  
25 and comprehensiveness, and a large information gap.

The creation of an efficient digital marketplace for commercial real estate requires a unified data model -- an infrastructure of a national, standardized database, accurate and comprehensive research capabilities, and intensive, real-time participant interaction. The global information network or Internet  
30 can help maximize interaction among participants in a marketplace. The Internet has emerged as a mass communications and commerce medium



enabling millions of people worldwide to share information, create communities among individuals with similar interests, and conduct business electronically. International Data Corporation projects that the number of Internet users will grow from 100 million in 1998 to 320 million in 2002. In addition to its  
5 emergence as a mass communications medium, the Internet has features and functions that are unavailable in traditional media, which enable users to: communicate or access enormous amounts of information at low cost and without geographic limitation; access dynamic and interactive content on a real-time basis; and communicate and interact instantaneously with a single  
10 individual or with entire groups of individuals.

Along with the impressive overall growth of the Internet, business-to-business usage is also growing rapidly, as businesses are increasingly leveraging the Internet's ability to reach clients globally, deliver personalized content, and open new distribution channels. Forrester Research  
15 projects business-to-business electronic commerce to grow from \$17 billion in 1998 to \$327 billion in 2002.

It is in this context that there remains a need for a system and method for creating a unified commercial real estate data model through collection, distribution and use of information in connection with commercial real estate  
20 and web-based information systems that facilitate the buying and selling of commercial real estate.

The present invention also relates to a method and system for listing and brokering a commercial real estate and its financial derivatives. An underlying principle of commodities, equities, or bond trading is that the asset sought to be  
25 traded have an intrinsic value which can be determined, usually by a market exchange, and that that value will shift based upon the vagaries of the market. The determination of market value can be aided by systems such as that described in U.S. Pat. No. 4,713,761, *System for Centralized Processing of Accounting and Payment Functions*, issued Dec. 15, 1987 to Sharpe et al., and  
30 in U.S. Pat. No. 5,222,018, also for a *System for Centralized Processing of Accounting and Payment Functions*, and issued Jun. 22, 1993 to Sharpe et al.

These systems merely provide a revenue or cost value which can then be used by analysts in determining a market value for the listed commodity. The ability to extract historical financial and market information, and to evaluate shifts due to events that pressure those markets, has been addressed by such art as  
5 U.S. Pat. No. 5,414,838 for *A System for Extracting Historical Market Information with Condition and Attributed Windows*, issued May 9, 1995 to Kolton et al. Again, the element of speed in reacting to the vagaries of the market provides the asset trading markets with winners and losers on a day to day basis. Transaction time for financial markets has been addressed by such art as U.S.  
10 Pat. No. 5,420,405 for a *Secure, Automated Transaction System that Supports an Electronic Currency Operating in Mixed Debit and Credit Modes*, issued to Norman E. Chasek on May 30, 1995.

U.S. Patent No 5,724,524 to Hunt , et al. describes a *Method and System*  
15 *for Listing, Brokering, and Exchanging Carrier Capacity* in which listing, brokering, and exchanging a commodity requires identifying a plurality of characteristics of the particular commodity, and then entering those characteristics into the database of a data processing system utilizing a real-time clock. An exchange market for the commodity is established based upon a  
20 pre-selected set of its characteristics. After a market price for the commodity has been set, a class (or classes) of financial derivatives is established together with a financial exchange market for those derivatives. The characteristics of the derivatives comprise: a common descriptive link between varied commodity types; a contract length that runs from the purchase date of the contract to the  
25 performance date for the commodity; and, a contract price.

In the context of commercial real estate, there has heretofore been insufficient reliable information to create derivatives based on the commercial real estate market. It is an object of the present invention to provide a system and method that support the creation of financial derivatives for commercial  
30 real estate. More specifically, it is an object of the present invention to shift the

financial burden of long-term leases through the financial markets by providing an opportunity to hedge against the future. While the landlords would have to guarantee that capacity will be available at a time when it is required, the financial burden of the landlords will be minimized by making capital available up front in exchange for capacity later. A further object of the present invention is to provide the financial markets with an ability to trade commercial real estate space as a tangible commodity by providing the method and means for doing so.

As used herein, "Commercial Real Estate" means any real property, including, without limitation, office, retail and industrial rental space, a building, and multiple buildings for use by a business entity, or one or more facilities or buildings that a business entity occupies for the purpose of conducting its operations on a routine and ongoing basis.

"Market" means a geographic region, e.g., the Washington, D.C. metropolitan area, that includes all buildings or potential buildings available for business occupancy, with boundaries that are consistent with U.S. Census standards and that are generally accepted definitions of metropolitan areas.

"Submarket" means a geographic area as a subset of a Market and that includes buildings or potential buildings available for business occupancy, with boundaries generally accepted by local real estate professionals.

"Grade" means the designated quality of real estate on a relative scale of quality, based primarily upon a generally accepted classification structure, such as Class A, B or C properties. Real estate experts familiar with the classification systems and with generally accepted standards can provide this "grade" designation.

"Rent" means the annual amount paid by a business entity for rights to occupy real estate.

"Vacancy Rate" means the percentage of square feet that is offered for lease in a market, submarket or building.

"Absorption" means the net reduction in vacant square feet over a defined period (typically, twelve-months) resulting from new tenants, new construction, and lease terminations.

5 "Comparable Real Estate" means real estate that is approximately equivalent in Rent, Grade, Use and/or location to the business entity's Real Estate.

10 "Area" means an indicator of economic attractiveness of the submarket where the real estate is located; and it is based, for example, upon rents, vacancy, absorption rate and/or other measures of economic attractiveness of a submarket.

"Risk" means an indicator of the financial, market and environmental exposure of real estate and of the financial, market and environmental risks associated with the employees and the business entity's occupancy in the real estate.

15 "Owner" or "Owner's representative" means anyone acting on behalf of an owner, including for example the owner's broker, the owner's property manager, and the owner herself.

20 "Seller" or "Seller's representative" means anyone acting on behalf of a seller or potential seller, including for example the seller's broker, the seller's property manager, and the seller herself. The seller represented by the seller or seller's representative includes potential sellers and those actually selling.

25 "Buyer" or "Buyer's representative" means anyone acting on behalf of a buyer or potential buyer, including for example the buyer's broker and the buyer himself. The buyer represented by the buyer or buyer's representative includes potential buyers and those actually buying.

30 "Confidentiality agreement" means a legal, binding contract requiring parties to the agreement to treat certain information as private and not for publication. For example, in the context of real estate, a confidentiality agreement requires that a buyer keep a property listing confidential in return for viewing the property listing. As used herein, "non-disclosure agreement" is synonymous with "confidentiality agreement." Executing and submitting confidentiality and

non-disclosure agreements can occur, for example, by clicking-through an “accept” button for an agreement posted online or by exchanging electronic documents having electronic signatures.

## 5 **SUMMARY OF THE INVENTION**

An object of the present invention is to provide a system and method for creating a unified commercial real estate data model through collection, distribution and use of information in connection with commercial real estate and a web-based marketplace that facilitates the buying and selling of  
10 commercial properties.

Another object of the present invention is to provide a web-based information distribution system that supports the efficient and secure buying and selling of commercial properties.

The present invention provides a unified, robust, and unbiased Internet  
15 marketplace for commercial real estate. The system has access to databases containing independent and comparable data on commercial real estate, which are continuously assembled and updated by professional researchers. The system includes a database detailing office and industrial space in the subject market that is comprehensive, accurate and up-to-date. The system also  
20 includes a tenant information database of information about tenants that allows users to identify and target the most likely tenants to lease space and determine the underlying demand for commercial real estate in their market.

This broker-centric model of the present invention enables sellers to reach a larger and more qualified universe of buyers, and enables buyers to more  
25 quickly and effectively find and evaluate commercial properties for sale by instantly referencing correlating web-based information. The present invention features properties for sale, including correlating content on comparable sales, for-lease space availability, commercial real estate inventory and market statistics, tenant information, and an image library of building photographs,  
30 floor plans, aerials, and maps. It also includes background information on buyers, sellers, lenders, owners, principals, and service providers.

The system of the present invention allows real estate buyers to review potential deals through a search engine that matches properties for sale with buyers' investment criteria. The system speeds up the commercial buying process and does what electronic trading of securities through NASDAQ did for the over-the-counter market by creating an open, efficient market for commercial real estate.

Currently, sellers of a property hire a broker to market the building. Usually that broker shows the building to a limited number of prospective buyers, institutions or private buyers with whom the broker has some personal connection. The system of the present invention site allows sellers and their brokers to advertise a building for sale to a much broader audience, but in a controlled manner: buyers have to prove they are serious and have the resources to buy the property before they can see any in-depth details.

At the same time, buyers can input various criteria such as price, size, location, and desired vacancy rates and receive a list of available properties. When a seller shows a prospective buyer a package of information about the property, the buyer can independently verify statistics about the building like rent rolls, tenant base, and comparable sales prices for similar buildings in the market by trawling through the system's databases, which are compiled by researchers.

By acting as an independent collecting information through independent researchers, the system short-circuits the buyer's analysis process on any given property. In this way, the system eliminates the need to expend time, money, and effort only to find out that data provided by the seller was misleading.

In the currently preferred embodiment, the service is free for sellers and their brokers, while buyers and their brokers pays a subscription on a sliding scale from \$250 a month up to \$20,000 a month, depending on the size of the buying entities.

The system provides an interactive marketplace that enables brokers to reach a larger and more qualified universe of buyers and sellers faster, thus helping them complete transactions more rapidly, efficiently and cost effectively -

through the Internet. The system is capable of providing information on thousands of properties for sale, including correlating content on comparable sales, for-lease space availability, commercial real estate inventory and market statistics, tenant information, and an image library of building photographs, floor plans, aerials, and maps. The system can also provide background information on buyers, sellers, lenders, owners, principals, and service providers.

The present invention provides a digital marketplace in which the members of the commercial real estate and related business community can continuously interact and facilitate transactions by efficiently exchanging accurate and standardized information.

The system of the present invention also facilitates mortgage lending. In particular, since reliable information concerning all factors needed to evaluate a commercial loan application, e.g., the building characteristics and the information concerning prospective borrowers, are accessible to the system or maintained within the system, the system facilitates matching borrowers with lenders. Alternatively, the system lists all available lenders, either generally or only those lenders that are willing to lend money for a particular property. The borrower can click on a particular lender and obtain information or submit information for loan pre-approval.

The system of the present invention provides enough information to allow lenders to actually underwrite a property. Based on the property information, the lender is able to commit to a particular loan regardless of who is buying the property, subject only to verification of credit information. The system allows a lender to offer better terms to a strong borrower. Lenders recognize the value of such a system, but, as yet, have been unable to create suitable automated underwriter systems that pull in discrete, disparate data fields and create massive automated valuation underwriting. Lacking the unified data model, lenders heretofore have had to pull data from various systems making it extremely expensive to underwrite a property. As such, lenders, to reduce costs, have had to be very selective in choosing systems from which to pull data.

There are three levels associated with underwriting properties and with establishing an underwriting marketplace. The first level involves simply providing quotes and information on loan programs and then matching that to people's requests. The second level involves 'soft quotes' – in which the system provides enough property information for lenders to provide a commitment of loan quotes on a non-request basis. This second level allows lenders to proactively market loans instead of responding back to requests for information.

The third level is refinancing. The system and method of the present invention make it possible for lenders to send pre-approved loans to the owner of any building, whether or not the owner is seeking to sell or refinance. Most owners are not currently marketing their property for sale or refinancing. However, owners may still be receptive to profitable offers. The unified data model of the system of the present invention allows lenders to go into the broad universe of all the properties stored on the database of the present invention and create a pre-approved credit line or a pre-approved loan for these different properties. Moreover, for certain properties, the unified data model of the system of the present invention has enough information to underwrite the loan. The system of the present invention has enough information to actually submit pre-approved offers and provide soft quotes. In contrast, without the unified data model and system of the present invention, the expense of underwriting loans is so large that lenders cannot process loans for under a certain amount. The invention therefore allows lenders to considerably increase their loan volume and brings much liquidity to the marketplace. Everyone is able to find out the best possible loan that one could obtain on his property.

As a further aspect of the present invention, a lending product is provided on the system that lists every lender that the system tracks. The present invention enables customers to click on a lender's name in the list to request a free package of materials from that lender. The system facilitates this communication between the customer and a prospective lender.

The system uses linked databases and computers to provide a wide array of digital service offerings including a leasing marketplace, a selling



marketplace, decision support, tenant information, comparable sales information, property marketing, and industry news. All of these services are preferably digitally delivered and most clients receive daily service updates over the Internet.

5           The system includes a comprehensive database of information that is relevant to commercial real estate transactions, a research department for updating the information, and links, through the Internet, for example, to participating organizations and other users. The database of the preferred embodiment has been constructed over more than a decade by a research  
10 department that now makes over 1.8 million updates each year to the database. The system has obtained and assimilated over 50 proprietary databases. The database now covers 54 commercial real estate markets in the United States. It tracks over 15 billion square feet in over 350,000 properties, including more than \$40 billion in properties for sale, and over 900,000 tenants. It is estimated  
15 that 36,000 participating companies use the marketplace of the present invention to distribute information on their properties. Of these participating companies, approximately 3,600 are clients, representing 25,000 end-users, who subscribe to the services to facilitate transactions, market services and properties, and conduct market research.

20           The system of the present invention provides a digital commercial real estate marketplace that takes advantage of network effects. The digital marketplace can be used by and deliver value to several distinct categories of users. To begin with, a large percentage of the commercial real estate industry participating companies use the marketplace to distribute information on their  
25 properties. Some portion of these participating companies, are subscribers that pay for enhanced access or additional information or related services to facilitate transactions, market services and properties, and conduct market research. A significant aspect of the present invention is that the users, including clients and other members of the commercial real estate and related business community,  
30 assist the system operator by continuously updating the marketplace data. Each day thousands of updates to the marketplace database are made. The

resulting information is distributed via the Internet, creating a more dynamic and efficient market for transactions involving the commercial real estate and related business community.

The system of the present invention capitalizes on the information accumulated in the digital marketplace to create a high value-added, full-service solution for users. The system of the present invention provides the following services:

- *Digital leasing marketplace* - provides the information required to efficiently conduct commercial real estate leasing transactions, both between brokers and between owners and brokers. This service provides a more comprehensive solution with much higher data quality, at substantially less time and cost.
- *Digital selling marketplace* - provides the information required to efficiently and securely conduct commercial real estate buy and sell transactions. This service benefits users by allowing purchasers to make more-informed investments and sellers to maximize realized property values.
- *On-line decision support services* - allow members of the community to perform an analysis of underlying market conditions and trends when making investment, leasing, purchase, sale, build, and marketing decisions involving commercial real estate. These services benefit users by providing more powerful, flexible, time-efficient, and accurate analytic capabilities.
- *Comparable Sales Information* - enables members of the real estate community to evaluate property value by analyzing comparable sales information including information on sale prices, income and expenses, capitalization rates, loan data, and other key details. This service provides a database searchable by such parameters as location, property type, square footage, price range, and number of units.

- *Tenant information services* - enable members of the commercial real estate and related business community to identify and market to the tenants who are the most likely prospects for their goods and services. These services benefit users by more precisely identifying and capturing viable prospects at a lower cost.
- *On-line property marketing* - provides a unique on-line means for the commercial real estate and related business community to direct advertising to the appropriate decision-makers. This service benefits users by providing them increased distribution, higher visibility, and a more cost-effective way to reach their targeted audience.
- *On-line industry news* - allows members of the commercial real estate and related business community to remain current with developments in the industry. These services benefit users by providing more timely and in-depth news.

All of the foregoing services can be digitally delivered via the Internet or through other forms of downloads. The increased availability of services from a web-based platform will allow the commercial real estate and related business community real-time access to the digital marketplace data and provide the opportunity for increased interaction among community members. The practical result of this increased interaction is the development of a more efficient commercial real estate marketplace.

The system of the present invention uses the latest technology to continuously improve data collection, enhance sales efforts and service capabilities, and control costs as the marketplace framework and unified data model is built. The system preferably uses a mobile information-collecting device that is equipped with a GPS system and a link to the databases of the system of the present invention. The device further includes a display screen and input device, and can also include a web camera. As detailed below, the system is able to provide location-sensitive real estate information automatically, and to perform other useful tasks by correlating a vehicle's

instantaneous position to data stored in a remote database to identify geographically pertinent information and transmitting the geographically pertinent information to the truck for display on the display panel within the truck. Optionally, the mobile information-collecting device also includes audio capabilities and the geographically pertinent information includes audio data, such that the device, for example, plays a voice describing the geographically pertinent information to the occupant of the mobile information-collecting device.

In addition, the system uses global satellite positioning and the Internet to coordinate remote field research vehicles equipped with GPS transponders, laptop computers, cellular communications, and laser measurement devices, to provide the most precise and timely inventory of available buildings.

The system also integrates a wide client and property information management system with a telecommunications system and database to allow the sales force, research staff, client-service staff, and accounting department to develop a coordinated sales, research, and account management effort. This enterprise-wide system also assists management in improving quality control and training.

The system also includes equipment to collect architectural photographs digitally so that the system can move the images into a database substantially faster and at lower cost.

Thus, the present invention provides the first national and standardized source for commercial real estate metrics that is comparable between geographic territories. For example, the definitions of vacancy rates and building classifications have varied among the different providers of real estate information. Through national presence and uniformity of services and data across all markets, the system provides a foundation for members of the commercial real estate and related business community to do business on a national basis. Leading firms within the community conduct business efficiently in multiple local markets by standardizing their internal systems on the proprietary database of the present invention.

The system of the present invention provides a unified data model that allows insight into relationships that were only inferred in the past.

The system of the present invention includes a variety of features that are useful for those within the commercial real estate field and elsewhere.

5 For example, the system provides fraud detection – by alerting brokers/owners that their property is being marketed – any person (subscriber or not) can see “my listings,” which includes identification of properties that they own/represent that are shown as being on the market.

10 The system of the present invention also provides intelligent searching – the query system allows the user to add/remove terms from the search without rerunning the entire search. This allows users to refine searches. The ADD/DELETE feature lets the user narrow the user’s existing search results by adding search terms to the user’s original search request. The search software retains the user’s original search request and corresponding search results.

15 To perform an ADD/DELETE Request, the user follows the following steps:

1. Once the user has completed a search request that returns search results, the user selects ADD/DELETE from the Search menu or clicks the ADD/DELETE button in the software's toolbar.
- 20 2. The user then enters a complete ADD/DELETE request. If the user is using the Graphical Interface, the user enters the ADD/DELETE request in the ADD/DELETE Search Request field.

The software returns focused search results through which the user can browse as the user normally would.

25 The user may want to narrow the scope of the user’s search if the search results contain too many documents. Or, after reviewing the user’s search results, the user may want expand the scope of the user’s search. The user can make these adjustments by modifying the user’s original search request to include additional connectors and/or search terms – all without losing the

user's original search results. Narrowing the scope of search results is described herein as running a query on a query or running a negative search query.

5 The system of the present invention also provides a unique method for searching for property within a geographical area using a map linked to a database that stores geographically pertinent information. As an example, the map includes icons showing the locations of properties for which the database has information. As a user drags a mouse pointer over an icon, a window pops-up displaying the geographically pertinent information from the database. For  
10 example, the information in the window could include a photograph of the property along with its sales price.

The system of the present invention also provides confidentiality assurance through a system for controlled dissemination of information.

15 The system of the present invention provides and facilitates "soft quotes," pursuant to which lenders offer loans on specific buildings subject only to qualification of buyer and possible discount for premium buyers.

20 The system of the present invention also provides and facilitates unsolicited refinancing offers for owners of buildings. In this way, the system allows building owners to take advantage of opportunities created by changes in rates and increased information available.

The system of the present invention also provides and facilitates creation of a derivatives market/futures market for commercial real estate.

25 The system of the present invention also provides a mobile data gathering and dissemination vehicle as well as a system tracking and dispatch of mobile vehicles. The system of the present invention further provides correlation of data stored in a remote location to vehicle position in real time. This feature is useful in the context of commercial real estate, residential real estate and as part of a merchant directory.

30 The system of the present invention also provides a least cost routing for data transfer system for transmitting data from the mobile vehicle.

The system of the present invention also synchronizes data stored in data sources by cross-checking data sources and prompting the input agent to make necessary changes in affected databases.

5 The system of the present invention also provides an investment advisor feature that provides relevant information such as: what is the leasing history of specific building? what is the history of market in that area? what is the history of the building relative to market (is the building generally one of the first to fill up)?

10 The system of the present invention also provides an intelligent assistant for assisting in setting prices based on the saved searches of users, i.e., knowing what other users (buyers) are looking (searching) for. The system could, for example, advise the user that “if you set the price at X level you will hit Y pending searches, but if you set the price at X’ level you will only hit (Y-n) pending searches.” The system thus allows queries against pending searches so  
15 that the user knows what people are looking for.

The system of the present invention also provides quick alerts when saved searches are satisfied to support user investment strategies. In particular, the system notifies the user by wireless messaging and/or e-mail as soon as a property matches existing search criteria. In accordance with a particularly  
20 important aspect of the present invention, this feature applies to searches that are satisfied as a result of changes in market conditions that bring a previously listed property within the investment criteria.

The system of the present invention in general employs the unified data model to enhance knowledge of the overall context of business decisions, for  
25 example, buying versus leasing.

The system of the present invention makes it possible for a user to extract data relating to virtually every aspect of a commercial real estate transaction. Although the data is described as being contained within a “database,” data can be stored in a plurality of linked physical locations or data sources. The  
30 significant aspect is that the database contains information relating to areas that have previously been only accessible in isolation from one another. By

providing a unified data model and a system for forming a variety of queries against the unified database, it is possible to understand with precision the relationship between market factors that have heretofore only been understood in an anecdotal way.

5           For example, prior to the present invention, a commercial real estate investor might have recognized the value of investing in a particular building that had low vacancy but was located in an area of extremely high vacancy. If so, this investor might also be interested in knowing that a building that is on the market has lost a big tenant.

10           Prior to the system of the present invention, however, there has been no unified way of storing an investor's investment criteria and continually monitoring the market so as to have the ability to provide a real-time alert when a property matching the investor's investment criteria has become available. This advantage is achieved because databases containing leasing information  
15           are linked with databases concerning buildings for sale, which are linked to databases that store a particular investor's investment criteria, which are linked to databases that store the data necessary to determine market conditions, and so on. It is through the connections of previously discrete databases that the synergies and advantages of the present invention arise.

20           In this sense, the present invention resides in the interconnection of related pieces of information that allows a true understanding and deep appreciation of a commercial real estate market. The user of the system of the present invention has the ability to understand data in context, because the data in one data source is influenced by other data sources that have heretofore  
25           not been connected.

          The data stored in the databases of the present invention is from various sources. For example, property information can be obtained by researching information sold and information available. Tenant information can be obtained through personal inspection of properties and from brokers. Market analytics  
30           are obtained through an historical analysis. In addition, tax assessment information provides yet another source of information.



Another way of gathering information is through mobile information-collecting device, according to another aspect of the present invention. The mobile information-collecting device is a truck or other vehicle that is equipped with a GPS system and a link to the databases of the system of the present invention. The device further includes a display screen and input device, and can also include a web camera. The system is designed such that the location of the truck or other mobile information gathering device at any particular instance is correlated to the database so that information concerning properties in the vicinity of the truck is automatically displayed on the display screen located in the truck. Thus, as a truck passes a particular commercial real estate building, information pertaining to that building is displayed, and the operator can determine whether additional information has to be gathered or whether information obtained in the database should be modified. The important feature is that the system automatically retrieves and displays the entirety of the currently available information so that the operator can determine if pieces of information are missing or need to be updated.

The mobile information gathering system of the present invention has other applications as well. For example, a similar device can be used in connection with residential real estate listings to display pertinent information and directions to the nearest available home for sale. The pertinent information could include, for example, photographs that pop-up on the display as the mobile information-collecting device travels. Likewise, the system could be used to display information concerning merchants, service providers, or tourist attractions within a particular area in a non-commercial setting. For example, the GPS in a passenger car could be linked to a database that contains information about local merchants, such as restaurants. As the driver approaches these restaurants, the system could display advertisements or other information pertaining to the restaurants.

Thus, in accordance with the present invention, the system provides location-sensitive real estate information automatically and performs other useful tasks by correlating a vehicle's instantaneous position to data stored in a

remote database to identify geographically pertinent information and by transmitting the geographically pertinent information to the vehicle's occupant, by for example displaying the information on the display panel within the truck or producing an audio message of the information for the occupant to hear.

5           The invention also provides a method and system for listing and brokering a commercial real estate and its financial derivatives. In particular, the system of the present invention can be used in connection with the creation of financial derivatives for commercial real estate. To create these derivatives, one must have a source of comprehensive information. The system of the present  
10 invention supports derivatives for commercial real estate by providing sufficiently accurate market information that supports the creation of indexes and derivatives such as futures or hedge rental rates and occupancy rates. The system can also be used for underwriting and rating commercial mortgage banking securities.

15           For example, a big office tenant that must find 60,000 square feet faces entering a 5-year or 7-year deal or longer-term deal without knowing where the market will be in 7 years. If the tenant is \$10 per square foot above market rate on 60,000 square feet – that is a great deal of money. Because the system of the present invention contains vast information concerning historical and  
20 current vacancy, projected absorption and demand, projected rental rates, and supply and demand figures, the system of the present invention can be used to create indexes with which commercial office tenants can hedge their occupancy costs. The tenants can basically buy futures, for example, “class A, Washington, suburban, close in office futures.” This aspect enables Wall Street  
25 and the financial community to manage the building space by watching supply and demand. By watching these futures, investors can monitor and adjust building construction, making the market much more perfectly balanced. Thus, the system of the present invention cultivates the massive liquidity inherent in these markets.

30           Since the system includes data concerning a plurality of characteristics of the subject commodity, i.e., commercial real estate, in the database of a data

processing system utilizing a real-time clock, an exchange market for the commodity, e.g., a particular type of commercial real estate "Class A space in downtown Bethesda, MD", is established based upon a pre-selected set of the commodity's characteristics; and, after a market price for the commodity has been set, a class (or classes) of financial derivatives is established together with a financial exchange market for those derivatives. The characteristics of the derivatives comprise: a common descriptive link between varied commodity types; a contract length that runs from the purchase date of the contract to the performance date for the commodity; and, a contract price.

The system of the subject invention comprises a number of elements that include: data processing means; means for determining whether a match exists based upon a comparison of the commodity offered for sale and that requested for purchase or exchange; display means; means for selecting the matched entry for purchase and/or exchange; and, means for determining and selecting a class of financial derivatives. The data processing means of the system, in turn, further comprises a system controller which is further comprised of: a data processing system; data entry means; memory means; and, communication means for communicating data between the system controller and a plurality of input and output points.

To achieve the advantages described herein as well as other advantages, and in accordance with the purpose of the present invention, as embodied and broadly described, a preferred embodiment of the present invention is a method for allowing information providers to both distribute specified information through the Internet and control dissemination of information. This method operates within a system that includes a system operator, a plurality of information providers and a plurality of information customers. This method includes the following steps: 1) making the information provider's specified information available through a secured website on the Internet; 2) obtaining from the information provider a designation of a first subset of the information customers that are authorized to receive access to the specified information on the website; and 3) distributing to each one of the first subset of the information

customers that are authorized to receive access to the specified information an ID that can be used to access the specified information.

5 In an aspect of this method, the system within which the method operates is used to facilitate exchange of information pertaining to commercial real estate available for sale. In addition, the information providers are owners or owner representatives that provide information concerning the availability of their respective properties for sale. Finally, the information customers are potential buyers or representatives of potential buyers.

10 In another aspect of this method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information, the method further comprises requiring the execution of a non-disclosure agreement by each one of the first subset of the information customers that are authorized, before each one of the first subset of the information customers that are authorized can access the specified  
15 information. The execution of the non-disclosure agreement can be accomplished by clicking through an agreement posted on the Internet.

Another preferred embodiment of the present invention is a method for allowing information providers to both distribute specified information through the Internet and control dissemination of information. According to this  
20 embodiment, the method includes the following steps: 1) making the information provider's specified information available through a secured website on the Internet; 2) obtaining from the information provider a designation of a first subset of the information customers that are authorized to receive access to the specified information on the website; 3) distributing to each one of the  
25 first subset of the information customers that are authorized to receive access to the specified information an ID that can be used to access the specified information; 4) allowing a second subset of potential customers to query a searchable database containing a plurality of descriptions of information; 5) indicating to the second subset of potential customers that the specified  
30 information exists without revealing the specified information; 6) if one or more of the second subset of potential customers are interested in obtaining access to

the specified information, allowing an interested potential customer to communicate a request for access directed to the system operator; 7) the system operator forwarding the request for access and information concerning the interested potential customer requesting access to the information provider in response to a request for access; and 8) allowing the information provider to make a decision to grant or deny the request for access and to communicate the decision to the system operator. In response to a deny access decision, the interested potential customer is notified of the deny decision without learning the specified information. In response to a grant access decision, the system operator grants the interested potential customer access to the specified information.

In an aspect of this embodiment of the present invention, the method further includes requiring the interested potential customer to execute a non-disclosure agreement prior to allowing the interested potential customer access to the specified information. For example, the interested potential customer executes the non-disclosure agreement by clicking through an agreement posted on the Internet.

In another aspect of this embodiment of the present invention, a profile of a member of the second subset of potential customers is obtained by the system operator and transmitted to the information provider in response to a request for access. As an additional aspect, before a profile of a member of the second subset of potential customers is transmitted to the information provider in response to a request for access, the system operator can authenticate the profile.

In another aspect of this embodiment of the present invention, the system operator, in response to a request for access, obtains a profile of the interested potential customer, authenticates the profile, and transmits the profile to the information provider in conjunction with the request for access.

In another aspect of this method, the system operator forwards the request for access to the information provider in response to a request for access, and requests a response from the information provider in real time

through the Internet or through wireless data transmission. Optionally, with the request for access, the system operator can also forward a profile of the interested potential customer.

5 In another aspect of this embodiment of the present invention, the system is used to facilitate exchange of information pertaining to commercial real estate available for sale. The information providers are owners or owner representatives that provide information concerning the availability of their respective properties for sale. Finally, the information customers are potential buyers or representatives of potential buyers.

10 Another preferred embodiment of the present invention is a method for allowing information providers to both distribute specified information through the Internet and control dissemination of information. This method operates within a system that includes a system operator, a plurality of information providers, and a plurality of information customers. The method begins by  
15 making the information provider's specified information available through a secured website on the Internet and allowing potential customers to query a searchable database containing a plurality of descriptions of information. The method continues by indicating to the potential customers that the specified information exists without revealing the specified information. Then, if one or  
20 more of the potential customers are interested in obtaining access to the specified information, the method proceeds by allowing an interested potential customer to communicate a request for access directed to the system operator. The method continues by having the system operator forward the request for access and information concerning the interested potential customer requesting  
25 access to the information provider in response to a request for access. The method continues by allowing the information provider to make a decision to grant or deny the request for access and to communicate the decision to the system operator. In response to a deny access decision, the interested potential customer is notified of the deny decision without learning the specified  
30 information. In response to a grant access decision, the system operator grants the interested potential customer access to the specified information.

In an aspect of this embodiment of the present invention, the information concerning the interested potential customer requesting access is a profile of the interested potential customer. Optionally, the system operator can authenticate the profile of the interested potential customer before forwarding  
5 the profile to the information provider.

In another aspect of this embodiment of the present invention, the system operator forwards the request for access to the information provider in response to a request for access, and requests a response from the information provider in real time through the Internet or through wireless data transmission.

10 In another aspect of this embodiment of the present invention, if the request for access is granted, the method involves the additional step of requiring execution of a non-disclosure agreement by the interested potential customer before the system operator grants the interested potential customer access to the specified information. The execution of this non-disclosure  
15 agreement can be accomplished by clicking through an agreement posted on the Internet.

In another aspect of this embodiment of the present invention, the system within which the method operates is used to facilitate exchange of information pertaining to commercial real estate available for sale. In addition, the  
20 information providers are owners or owner representatives that provide information concerning the availability of their respective properties for sale, and the information customers are potential buyers or representatives of potential buyers.

In another aspect of this embodiment of the present invention, the system  
25 within which the method operates is used to facilitate exchange of information pertaining to residential real estate available for sale. In addition, the information providers are owners or owner representatives that provide information concerning the availability of their respective properties for sale, and the information customers are potential buyers or representatives of  
30 potential buyers.

Another preferred embodiment of the present invention is a system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user. The system includes user equipment sets, a computer, and a database in communication with the computer. Each user equipment set includes a display and a location determining device for generating data pertaining to the user's location and for transmitting the data pertaining to the user's location to a remote computer automatically. The computer is equipped for wireless communication with geographically remote users that are equipped with the equipment sets so as to send data to the equipment sets and receive data from the equipment sets including the data pertaining to the user's location. The database stores information that includes information identifying a location of a property. Within this system, in response to receipt of the data pertaining to a user's location, the computer automatically retrieves information pertaining to the user's location and transmits the same to the user's equipment set for display on the display.

In an aspect of this embodiment of the present invention, each user equipment set further comprises a data input device for allowing the user to input data. The information is displayed on the display in a way that prompts the user to input missing information using the data input device.

In another aspect of this embodiment of the present invention, the display is a color display adapted for displaying photographic images.

In another aspect of this embodiment of the present invention, in response to receipt of the data pertaining to the user's location, the computer automatically retrieves information describing commercial or residential real estate near the user's location and transmits the same to the user's equipment set for display on the display.

In another aspect of this embodiment of the present invention, in response to receipt of data pertaining to a user's location, the computer automatically retrieves information regarding at least one of commercial



enterprises and landmarks near the user's location and transmits the same to the user's equipment.

5 In another aspect of this embodiment of the present invention, the user's equipment set includes audio capabilities, and the information pertaining to the user's location includes audio data.

In another aspect of this embodiment of the present invention, the computer transmits the information pertaining to the user's location to the user's equipment set for color display on the display.

10 In another aspect of this embodiment of the present invention, the information pertaining to the user's location includes information on commercial enterprises located near the user's location. The information on commercial enterprises includes information on at least one of the products, goods, and services provided by the commercial enterprises. In addition, in response to receipt of the data pertaining to a user's location, the computer  
15 automatically retrieves the information on at least one of products, goods, and services provided by commercial enterprises near the user's location and transmits the same to the user's equipment set.

20 In another aspect of this embodiment of the present invention, the computer automatically retrieves information describing real estate near the user's location and the display shows a pop-up window including the information describing the real estate.

25 In another aspect of this embodiment of the present invention, the information stored in the database includes at least one of the following: square footage available for lease; whether a property is available for sale; property address; contact information; and price. With this information in the database, in response to receipt of the data pertaining to the user's location, the computer automatically retrieves information describing the commercial or residential real estate near the user's location and transmits the same to the user's equipment set for display on the display.

30 Optionally, the information stored in the database also includes at least one of the following: a digital image of the commercial real estate; square footage

data representing a square footage of the commercial real estate; data characterizing the selected use of the commercial real estate; rental price of the commercial real estate; sale price of the commercial real estate; data about the tenant in the commercial real estate; a real estate submarket identification; 5 sales comparable information; lender information; a grade indicator of the commercial real estate, the grade indicator having an alpha numerical representation and being a function of a classification system of the commercial real estate that is consistent with accepted standards and providing a representation of the quality of the real estate; a classification of the commercial 10 real estate based upon at least one of the following: a building grade, an age of the building, and an extrapolation of comparable buildings; and information pertaining to the submarket including at least one of (i) rents, (ii) vacancy, and (iii) absorption rates for each of the submarket and nearby submarkets, and (iv) other indicators of submarket and location attractiveness.

15 Another preferred embodiment of the present invention is a commercial real estate information exchange and market. The exchange and market includes a database for storing information about commercial real estate, and computers and communication equipment for allowing a plurality of users to query the database, add data to the database, and retrieve the information from 20 the database. The database contains data records, including information pertaining to lease information, sale information, comparable sales information, and tenant information.

In an aspect of this embodiment of the present invention, the database further includes at least one of: data about a tenant in the commercial real 25 estate; building-specific information including data representing an age of the commercial real estate, and data representing financial obligations and tenancy status of the tenant in the commercial real estate; square footage data representing a square footage of the commercial real estate; data characterizing a selected use of the commercial real estate; cost data including a rental price of 30 the commercial real estate; a real estate submarket identification; a classification of the commercial real estate based upon at least one of a building

grade, an age of the building, and an extrapolation of comparable buildings; and information pertaining to a submarket including rent data, vacancy data, and absorption rate data.

5 In another aspect of this embodiment of the present invention, the data records include market analytic information.

Another preferred embodiment of the present invention is a method for storing and automatically displaying descriptions and visual images of commercial or residential real estate on a display of a user. The method involves generating a plurality of digitized video images of real estate, storing data records concerning the real estate; determining a location of the user; 10 retrieving data records corresponding to the user's location; and displaying on the display the data records corresponding to the user's location. According to the method, each digitized video image depicts a real estate. In addition, the data records include the digitized video images, textual information concerning 15 the real estate, and information identifying the location of the real estate.

Another preferred embodiment of the present invention is a method for listing and brokering commercial real estate. The method includes the following steps: 1) identifying a characteristics of the commercial real estate and entering the characteristics into a data processing system to establish a first exchange 20 market for the commercial real estate based upon the characteristics; 2) identifying a market value for the commercial real estate and listing the market value on the first exchange market; 3) determining a class of derivatives based upon a pre-selected subset of the characteristics; and 4) establishing a second exchange market in respect of the derivatives.

25 In an aspect of this embodiment of the present invention, the first exchange market and the second exchange market are co-located within the data processing system.

In another aspect of this embodiment of the present invention, the characteristics include a geographic location, a start date and a finish date, a size, a class of building, and a cost. 30

Another preferred embodiment of the present invention is a method for establishing a unified group of correlated databases that provides real estate data to facilitate a real estate transaction. According to this method, each database of the unified group is a discrete data module. The method includes the following steps: (a) associating real estate data entries of a first database of the unified group with corresponding real estate data entries of the remaining databases of the unified group; (b) collecting the real estate data from real estate industry data sources; (c) recording the real estate data in the first database of the unified group; (d) determining an effect of the recorded real estate data on the remaining databases of the unified group; (e) reconciling remaining real estate data in the remaining databases based on the effect; and (f) distributing the recorded real estate data and the reconciled real estate data to real estate industry professionals and to real estate industry customers.

In an aspect of this embodiment of the present invention, the real estate data includes property information and tenant information, and the unified group of correlated databases includes a property information database and a tenant information database. Optionally, the real estate data further includes comparable property information, assessment information, and market analytics information, and the unified group of correlated databases further includes a comparable property information database, an assessment information database, and a market analytics information database.

In another aspect of this embodiment of the present invention, the real estate industry data sources include at least one of property managers, proprietary databases, Internet sources, site inspections, building owners, brokerage firms, real estate investment trust filings, tenant canvassing, public records, and comparable property databases. In addition, the step of collecting the real estate data involves the following steps: (i) communicating with at least one of the property managers, the building owners, and the brokerage firms by mail, electronic mail, telephone, or facsimile, if the real estate industry data sources include at least one of the property managers, the building owners, and the brokerage firms; (ii) searching and extracting data from at least one of the

proprietary databases, the Internet sources, and the real estate investment trust filings, if the real estate industry data sources include at least one of the proprietary databases, the Internet sources, and the real estate investment trust filings; (iii) recording observed data from at least one of the site

5 inspections and the tenant canvassing, if the real estate industry data sources include at least one of the site inspections and the tenant canvassing; and (iv) extracting data from at least one of the public records and the comparable property databases, if the real estate industry data sources include at least one of the public records and the comparable property databases.

10 In another aspect of this embodiment of the present invention, collecting real estate data involves receiving web-based input from the real estate industry professionals and the real estate industry customers. Collecting real estate data also involves receiving communications from the real estate industry professionals and the real estate industry customers through mail, electronic  
15 mail, telephone, or facsimile. Optionally, collecting the real estate data can further involve gathering information with a mobile data acquisition vehicle.

In another aspect of this embodiment of the present invention, reconciling the remaining real estate data involves confirming that the real estate data entries and the corresponding associated real estate data entries are internally  
20 consistent.

In another aspect of this embodiment of the present invention, distributing the real estate data involves providing a web-based interface in communication with the unified group of correlated databases. Optionally, this distributing further involves providing communication between parties to a  
25 transaction, and providing transactional services in support of a transaction. Also optionally, the method further involves providing a derivatives marketplace in which to define, value, and exchange real estate commodities. These commodities could be real estate cost futures.

In another aspect of this embodiment of the present invention,  
30 distributing real estate data involves accepting a property search query from a

user, and running the property search query in the unified group of correlated databases and returning property search results to the user.

Optionally, this distributing could involve adding properties to the property search results as directed by the user without running another search query, removing properties from the property search results as directed by the user without running another search query, and running negative search queries in the property search results as directed by the user to remove properties from the property search results.

Also, optionally, this distributing could involve accepting a second property search query from the user, running the second property search query on the property search results, and returning a second set of property search results to the user.

In a further embodiment of this aspect of the present invention, the property search results provide data from at least one of leasing history of a specific building, history of a market in a particular geographic area, and history of the specific building relative to the market.

In another embodiment of this aspect of the present invention, the method further involves saving the property search query as directed by the user, running the saved property search query at a periodic interval, and notifying the user of new properties that satisfy the property search query. Optionally, the saved property search query has at least one field that relates to market conditions and at least one new property satisfies the property search query because of a change in the market conditions. Also optionally, the saving, running, and notifying repeat for different users, resulting in a plurality of saved searches. With these saved searches the method continues by calculating an amount of saved searches of the plurality of saved searches that will be satisfied by entry of a new property listing, and reporting the amount to an owner or owner representative so that the owner or owner representative can maximize demand for the new property listing. The owner or owner representative can maximize demand for the new property listing by setting, for example, an optimum price. The owner or owner representative can also

maximize demand for the new property listing by setting, for example, an optimum building grade.

In another aspect of this embodiment of the present invention, distributing real estate data involves disseminating location-sensitive information to a mobile information receiving device. The mobile information receiving device determines its location and the unified group of correlated databases receives the location of the mobile information receiving device and transmits the location-sensitive information to the mobile information receiving device.

In another aspect of this embodiment of the present invention, distributing real estate data involves displaying a user interface; displaying a display element on the user interface to indicate a property for which information is recorded in the unified group of correlated databases; providing a link to the information on the user interface proximate to the display element; allowing a user to select the display element; and in response to the selection, retrieving and displaying the information. The user selects the display element by dragging a pointer proximate to the display element, in which case the information is automatically displayed. The information can be displayed in, for example, a pop-up window.

Another preferred embodiment of the present invention is a system for collecting, distributing, and using real estate data. The system includes data sources, data mining applications in communication with the data sources, a contact management system in communication with the data sources and the data mining applications, a core data warehouse in communication with the data mining applications, database processes in communication with the core data warehouse, and network integration applications in communication with the database processes. The data sources gather and generate real estate data. The data mining applications receive and organize the real estate data into separate interrelated modules, and evaluate the real estate data and reconcile the real estate data among the interrelated modules. The contact management system directs the data mining applications to conduct continuous pollings of

the data sources to update the real estate data. The core data warehouse receives and stores the reconciled and updated real estate data from the data mining applications. The database processes access the reconciled and updated real estate data from the core data warehouse and create database sets. The network integration applications manipulate the database sets in response to commands from a user and present results of the manipulation to the user.

In an aspect of this embodiment of the present invention, the network integration applications comprise at least one of a look up property application, a search database application, and an add listing application. The search database application can accept property search queries from the user, run the property search queries, and return property search results to the user. The search database application can also add properties to the property search results as directed by the user without running another search query, remove properties from the property search results as directed by the user without running another search query, and run negative search queries as directed by the user to remove properties from the property search results.

In another aspect of this embodiment of the present invention, the data sources include at least one of property managers, proprietary databases, Internet sources, site inspections, building owners, brokerage firms, real estate investment trust filings, tenant canvassing, public records, and comparable property databases.

In another aspect of this embodiment of the present invention, data mining applications include at least one of a property information database, a tenant information database, an assessment information database, a comparable property information database, and a market analytics information database.

In another aspect of this embodiment of the present invention, the system further includes a mobile information collection device that provides functions of the data sources and the network integration applications. The mobile information collection device includes a global positioning system, an output



device, and an input device. The global positioning system determines a location of the mobile information collection device. The output device is in communication with the database processes and the global positioning system. The output device reads the location provided by the global positioning system and retrieves and displays the database sets corresponding to the location. The data input device receives changes to the database sets corresponding to the location and transmits the changes to the data mining applications.

Another preferred embodiment of the present invention is a method for securely facilitating buying and selling of real estate properties. The method involves the following steps: (a) maintaining a unified group of interrelated databases accessible through a global information network; (b) accepting a property listing from an owner or owner representative and recording the property listing in the unified group; (c) providing confidentiality agreements to preapproved buyers or buyer representatives named by the owner or owner representative; and (d) providing access to the property listing for buyers or buyer representatives that agree to the confidentiality agreement. The confidentiality agreements require that the property listing remain confidential in return for viewing the property listing.

In an aspect of this embodiment of the present invention, the buyer or buyer representative is provided with an electronic identification key to access the property listing. The key generates a variable password at a predetermined frequency.

In another aspect of this embodiment of the present invention, the accepting and recording of the property listing involves determining if the owner or owner representative is fraudulent by posting the property listing for viewing by a true owner representative.

In another aspect of this embodiment of the present invention, the method includes the following additional steps: (e) indicating to an unapproved buyer or buyer representative that the property listing exists; (f) accepting from the unapproved buyer or buyer representative a request to view the property listing; (g) forwarding the request to the owner or owner representative for

approval; (h) if the owner or owner representative approves the request, requiring the unapproved buyer or buyer representative to agree to a confidentiality agreement requiring that the property listing remain confidential in return for viewing the property listing; and (i) if the unapproved buyer or  
5 buyer representative agrees to the confidentiality agreement, providing access to the property listing for the unapproved buyer or buyer representative.

According to this aspect, optionally, the unapproved buyer or buyer representative subscribes to an access service that indicates the existence of property listings in the unified group of interrelated databases.

10 Also according to this aspect, optionally, the buyer or buyer representative agrees to the confidentiality agreement by clicking through an agreement posted on the Internet.

Also according to this aspect, optionally, forwarding the request further involves forwarding a profile of the buyer or buyer representative to the owner or  
15 owner representative. The forwarding of the request could also involve authenticating the profile of the buyer or buyer representative.

Also according to this aspect, optionally, accepting a request to view the property listing further involves obtaining a profile of the buyer or buyer representative, authenticating the profile, and transmitting the profile to the  
20 owner or owner representative.

Also according to this aspect, optionally, forwarding the request to the owner or owner representative involves requesting a response from the information provider in real time through the Internet or through wireless data transmission.

25 Another preferred embodiment of the present invention is a method for securely facilitating buying and selling of real estate properties. The method includes the following steps: (a) maintaining a unified group of interrelated databases accessible through a global information network; (b) accepting a property listing from an owner or owner representative and recording the  
30 property listing in the unified group; (c) indicating to an unapproved buyer or buyer representative that the property listing exists; (d) accepting from the

unapproved buyer or buyer representative a request to view the property listing;  
(e) forwarding the request to the owner or owner representative for approval; (f)  
if the owner or owner representative approves the request, requiring the  
unapproved buyer or buyer representative to agree to a confidentiality  
5 agreement requiring that the property listing remain confidential in return for  
viewing the property listing; and (g) if the unapproved buyer or buyer  
representative agrees to the confidentiality agreement, providing access to the  
property listing for the unapproved buyer or buyer representative.

10 In an aspect of this embodiment of the present invention, the unapproved  
buyer or buyer representative is provided with an electronic identification key to  
access the property listing. The key generates a variable password at a  
predetermined frequency.

15 In another aspect of this embodiment of the present invention, the  
accepting and recording the property listing include determining if the owner or  
owner representative is fraudulent by posting the property listing for viewing by  
a true owner representative.

20 In another aspect of this embodiment of the present invention, the  
unapproved buyer or buyer representative subscribe to an access service that  
indicates the existence of property listings in the unified group of interrelated  
databases.

In another aspect of this embodiment of the present invention, the  
unapproved buyer or buyer representative agrees to the confidentiality  
agreement by clicking through an agreement posted on the Internet.

25 In another aspect of this embodiment of the present invention, forwarding  
the request involves forwarding a profile of the unapproved buyer or buyer  
representative to the owner or owner representative. Optionally, the profile of  
the unapproved buyer or buyer representative can be authenticated.

30 In another aspect of this embodiment of the present invention, forwarding  
the request to the owner or owner representative involves requesting a response  
from the information provider in real time through the Internet or through  
wireless data transmission.

Another preferred embodiment of the present invention is a method for underwriting loans for real estate property. The method begins by establishing a unified group of correlated databases that provides data to facilitate a real estate transaction. Each database is a discrete module of real estate data. The method continues by providing quotes on individual loan programs in response to customer requests. The quotes are based on property data in the unified group. The method continues by providing soft loan quotes based on property data in the unified group. The method ends by providing pre-approved loan quotes to owners of particular properties based on real estate data for the particular properties and market information in the unified group.

In an aspect of this embodiment of the present invention, providing pre-approved loan quotes involves examining a financial profile of an owner, examining a property owned by the owner, evaluating the property to determine value and market analytics, and formulating a pre-approved credit line for the owner based on the property.

Another preferred embodiment of the present invention is a method for listing and brokering real estate commodities and financial derivatives of the real estate commodities. The method involves identifying characteristics of the real estate commodities; entering the characteristics into a data processing system utilizing a real-time clock; establishing an exchange market for the real estate commodities based on a pre-selected set of the characteristics; setting a market price for the real estate commodities; and establishing classes of the financial derivatives.

In an aspect of this embodiment of the present invention, the characteristics can be geographic location, lease term start date range, lease term end date range, building class, volume, or cost.

In another aspect of this embodiment of the present invention, entering the characteristics into a data processing system involves the following steps: (i) determining whether or not a commodity is being identified to the data processing system for a first time; (ii) storing the characteristics in a commodity database if the commodity is being identified to the data processing system for

the first time; and (iii) determining a status of the commodity with respect to being a candidate for purchase, sale, or trade, if the commodity is not being identified to the data processing system for the first time.

5 In another aspect of this embodiment of the present invention, the classes of financial derivatives can be all commercial real estate available during a particular time period in a particular region, all commercial real estate of a certain class, all commercial real estate of a certain cost, a lease space equivalent use, or combinations thereof. The lease space equivalent use can include a common descriptive link between varied commodity types, a time  
10 period that runs from a date of a contract to a performance date of the commodity, and a contract price.

Another preferred embodiment of the present invention is a system for listing and brokering real estate commodities and financial derivatives of the real estate commodities. This system includes: (a) a data processing means for  
15 accepting and storing parameters of an available commodity available for sale or exchange; (b) data processing means for entering a description of a desired commodity desired for purchase or exchange; (c) means for determining that a match exists between the available commodity and the desired commodity; (d) means for displaying the match to a system operator; (e) means for selecting the  
20 match for purchase, exchange, or purchase and exchange; (f) means for determining a class of financial derivatives based on a pre-determined set of characteristics resident in commodity descriptions stored in a database; and (g) means for selecting a class of derivatives for purchase, exchange, or purchase and exchange.

25 In an aspect of this embodiment of the present invention, the data processing means includes a system controller comprising a data processing system, a data management program, data entry means for entering data into the data processing system, memory means for storing memory, and communication means for communicating data between the system controller  
30 and a plurality of input and output points. The plurality of input and output points can include, for example, one or more commodity input points, one or

more commodity receiver points, one or more commodity brokerage points, and one or more derivative exchange points.

Another preferred embodiment of the present invention is a method for shopping for real estate and completing real estate transactions. This method  
5 involves providing a mobile information transmitting and receiving device that is in communication with a database containing real estate data; determining a location of the mobile information transmitting and receiving device using a global positioning system; downloading from the database to the mobile information transmitting and receiving device real estate data corresponding to  
10 the location; and displaying on the mobile information transmitting and receiving device summary information corresponding to a property listed in the real estate data to which the mobile information transmitting and receiving device is nearest.

In an aspect of this embodiment of the present invention, this method  
15 includes the additional steps of providing communication between a buyer or buyer representative and a seller or seller representative of the property for approval by the seller or seller representative for the prospective buyer to view details of the property; displaying details on the mobile information transmitting and receiving device, if approved by the seller or seller representative; and  
20 communicating an offer from the buyer or buyer representative to the seller or seller representative using the mobile information transmitting and receiving device. In addition to these added steps, the method could also further involve completing an electronic agreement to transfer title of the property if the offer is accepted by the seller or seller representative.

Another preferred embodiment of the present invention is system for use  
25 in information exchange between a system operator, a plurality of information providers, and a plurality of information customers. The system allows the information providers to both distribute specified information through the Internet and control dissemination of information. The system includes means  
30 for making the information provider's specified information available through a secure website on the Internet; means for obtaining from the information

provider a designation of a first subset of the information customers that are authorized to receive access to the specified information on the website; and means for distributing to each one of the first subset of the information customers that are authorized to receive access to the specified information an ID that can be used to access the specified information.

In an aspect of this embodiment of the present invention, the system is used to facilitate the exchange of information pertaining to commercial real estate available for sale. In addition, the information providers are owners or owner representatives that provide information concerning the availability of properties for sale, and the information customers are buyers or buyer representatives.

In another aspect of this embodiment of the present invention, the system also includes means for providing a description of the specified information in a searchable database containing a plurality of descriptions of information; means for allowing a second subset of customers to query the searchable database and retrieve information sufficient to show the existence of information responsive to the query without revealing all of the information; means for allowing one or more of the second subset of customers that are interested in obtaining access to the complete information to communicate their interest in access to the information responsive to the query; means for forwarding the request for access and information concerning the interested customer requesting access to the information provider in response to a request for access; and means for allowing the information provider to make a decision to grant or deny the request for access to the information responsive to the query. Within this system, in response to a deny access decision, the interested customer is notified of the deny decision without learning the identity of the information provider. In response to a grant access decision, the interested customer receives access to the specified information.

According to this aspect, optionally, the means for allowing one or more of the second subset of customers that are interested in obtaining access to the complete information to communicate their interest in access to the information

responsive to the query, includes: 1) means for allowing the interested customer to send a request for access directed to the system operator; 2) means for allowing the system operator to forward the request for access and information concerning the interested customer requesting access to the information provider in response to a request for access; and 3) means for allowing the information provider to make a decision to grant or deny the request for access and to communicate the decision to the system operator. In response to a deny access decision, the interested customer is notified of the deny decision without learning the identity of the information provider. In response to a grant access decision, the system operator grants the interested customer access to the specified information responsive to the query. Optionally, the system can further include data records containing a profile of each of the second subset of customers and means for transmitting the profile information to information providers in response to a request for access. Also, optionally, the system includes means for forwarding a request for access and information concerning the customer requesting access to the information provider in response to a request for access, and requesting a response from the information provider in real time through the Internet or through wireless data transmission.

According to this aspect, optionally, the system further includes means for obtaining a non-disclosure agreement from the interested potential customer as a condition of receiving access to the specified information. Optionally, the means for obtaining a non-disclosure agreement from the interested potential customer as a condition of receiving access to the specified information includes means for obtaining an electronic signature.

Another preferred embodiment of the present invention is a system for use in information exchange between a system operator, a plurality of information providers, and a plurality of information customers. The system allows the information providers to both distribute specified information through the Internet and control dissemination of information. This system includes: (a) means for making the information provider's specified information available through a secure website on the Internet; (b) means for providing a



description of the specified information in a searchable database containing a plurality of descriptions of information; (c) means for allowing a customers to query the searchable database and retrieve information sufficient to show the existence of information responsive to the query without revealing all of the information; (d) means for allowing one or more of the customers that are interested in obtaining access to the complete information to communicate their interest in access to the information responsive to the query; (e) means for forwarding the request for access and information concerning the interested customer requesting access to the information provider in response to a request for access; and (f) means for allowing the information provider to make a decision to grant or deny the request for access to the information responsive to the query. In response to a deny access decision, the interested customer is notified of the deny decision without learning the identity of the information provider. In response to a grant access decision, the interested customer receives access to the specified information.

In an aspect this embodiment of the present invention, the means for allowing one or more of the customers that are interested in obtaining access to the complete information to communicate their interest in access to the information responsive to the query, includes: 1) means for allowing the interested customer to send a request for access directed to the system operator; 2) means for allowing the system operator to forward the request for access and information concerning the interested customer requesting access to the information provider in response to a request for access; and 3) means for allowing the information provider to make a decision to grant or deny the request for access and to communicate the decision to the system operator. In response to a deny access decision, the interested customer is notified of the deny decision without learning the identity of the information provider. In response to a grant access decision, the system operator grants the interested customer access to the specified information responsive to the query.

In another aspect of this embodiment of the present invention, the system is used to facilitate the exchange of information pertaining to commercial real

estate available for sale. In addition, the information providers are owners or owner representatives that provide information concerning the availability of properties for sale, and the information customers are buyers or buyer representatives.

5           In another aspect of this embodiment of the present invention, the system also includes means for obtaining a non-disclosure agreement from the interested potential customer as a condition of receiving access to the specified information. The means for obtaining a non-disclosure agreement from the interested potential customer as a condition of receiving access to the specified  
10 information could include, for example, means for obtaining an electronic signature.

          In another aspect of this embodiment of the present invention, the system also includes data records containing a profile of each customer and means for transmitting the profile information to information providers in response to a  
15 request for access.

          In another aspect of this embodiment of the present invention, the system includes means for forwarding a request for access and information concerning the customer requesting access to the information provider in response to a request for access, and requesting a response from the information provider in  
20 real time through the Internet or through wireless data transmission.

          Another preferred embodiment of the present invention is a system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and transmitting the selected data files to the user. The system includes user  
25 equipment sets, a computer, and a database in communication with the computer. Each user equipment set including means for inputting or determining a user's geographic location and for transmitting information pertaining to the user's location to a remote computer. The computer is equipped for communication with geographically remote users that are  
30 equipped with the equipment sets so as to send data to the equipment sets and receive data from the equipment sets including data pertaining to a user's

location. The database stores information that includes information identifying the location of a property. In response to receipt of data pertaining to a user's location, the computer retrieves information pertaining to the user's location and transmits the same to the user's equipment set for display on the display.

5 In an aspect of this embodiment of the present invention, the information pertaining to the user's location includes information concerning comparable properties.

10 In another aspect of this embodiment of the present invention, the information pertaining to the user's location includes information concerning three dimensional video description of properties.

In another aspect of this embodiment of the present invention, the information pertaining to the user's location includes information concerning historical performance of commercial properties.

15 In another aspect of this embodiment of the present invention, the information pertaining to the user's location includes information concerning comparable lease data for commercial properties.

20 In another aspect of this embodiment of the present invention, the information stored in the database includes information pertaining to commercial or residential real estate located proximate to the user's location. The information includes at least one of data and images describing the commercial real estate. In response to receipt of data pertaining to a user's location, the computer retrieves information describing the commercial real estate near the user's current location and transmits the same to the user's equipment set for display on the display.

25 In another aspect of this embodiment of the present invention, in response to receipt of data pertaining to a user's location, the computer retrieves geographically pertinent information and transmits the same to the user's equipment set for display on the display.

30 In another aspect of this embodiment of the present invention, the display includes a map of a geographic area; an indicator on the map to indicate a property for which information is recorded in the database; and (iii) a pop-up

window linked to the indicator. The pop-up window appears when the user's location is proximate to the property for which information is recorded in the database. The pop-up window displays the information recorded in the database. The information can include, for example, at least one of a  
5 photograph of the property, an address of the property, a building class size of the property, a building size of the property, a number of floors of the property, a year in which the property was built, a buyer of the property, a sale price of the property, a price per square foot of the property, and a cap rate of the property.

10 Another preferred embodiment of the present invention is a system for storing and automatically displaying descriptions and visual images of real estate on a user's display. The system includes means for generating a plurality of digitized video images of selected real estate, means for storing data records concerning the real estate, means for determining a user's geographic location,  
15 means for retrieving data records corresponding to the user's geographic location, and means for displaying on a single display the digitized video images and textual information. Each digitized video image depicts a view of a specified area of a real estate property. The data records include, for example, the digitized video images, textual information concerning the real estate, and  
20 information identifying the geographic location of the real estate in a computer database.

In an aspect of this embodiment of the present invention, the system also includes means for generating and displaying three dimensional video depictions.

25 In another aspect of this embodiment of the present invention, the single display includes a map of a geographic area; an indicator on the map to indicate a location of a property for which a data record exists; a link to the data record on the map proximate to the indicator; and a pop-up window proximate to the indicator. The pop-up window appears when the link is activated and includes  
30 at least a portion of the data record. The link is activated by, for example,

dragging a pointer over the indicator, touching a touch screen at the indicator, or voicing a command to a voice activated response system.

Another preferred embodiment of the present invention is a system for facilitating commercial real estate information loan transactions. The system includes at least one searchable database, a search engine, communication equipment, and a computer. The at least one searchable database contains data records. The data records identify a plurality of commercial real estate properties, associate at least one lender with each of the commercial real estate properties, associate a loan commitment with each of the commercial real estate properties, provide information sufficient to evaluate the investment value of the property, and provide a list of qualified buyers or information sufficient to evaluate the credit worthiness of prospective buyers. The search engine allows potential customers to query the searchable database. The communication equipment allows potential customers that are interested in purchasing a commercial real estate property to communicate their interest and lock in the loan commitment associated with that commercial real estate property subject to qualification of the potential customer as a qualified buyer. The computer determines whether the potential customer is a qualified buyer and prompts the potential customer to provide further information, if required.

In an aspect of this embodiment of the present invention, the data records that identify commercial real estate properties include information pertaining to: square footage data representing a square footage of the commercial real estate; data characterizing the selected use of the commercial real estate; cost data; data about the tenant in the commercial real estate; a real estate submarket identification; a classification of the commercial real estate based on at least one of a building grade, an age of the building, and an extrapolation of comparable buildings; information pertaining to the submarket including at least one of rent data, vacancy data and absorption rate data; and building-specific information. The system also includes computers and communication equipment for allowing a plurality of users to query the database, add data to the database, and retrieve information from the database.

Another preferred embodiment of the present invention is a method for facilitating commercial real estate information loan transactions. The method begins by providing at least one searchable database that contain data records. The data records identify a plurality of commercial real estate properties, 5 associate at least one lender with each of the commercial real estate properties, associate a loan commitment with each of the commercial real estate properties, provide information sufficient to evaluate the investment value of the property, and provide a list of qualified buyers or information sufficient to evaluate the credit worthiness of prospective buyers. The method continues by allowing 10 potential customers to query the searchable database to identify commercial real estate properties of interest. In response to such queries, the method continues by presenting the potential customers with information sufficient to evaluate the investment value of each property and the loan commitment associated with that commercial real estate property. The method continues by 15 allowing potential customers that are interested in purchasing a commercial real estate property to communicate their interest and lock in the loan commitment associated with that commercial real estate property subject to qualification of the potential customer as a qualified buyer. The method ends by determining whether the potential customer is a qualified buyer and 20 prompting the potential customer to provide further information, if required.

Another preferred embodiment of the present invention is a system for facilitating commercial real estate information loan transactions. The system includes at least one searchable database, a search engine, and communication equipment. The at least one searchable database contains data records that 25 identify a plurality of qualified buyers of commercial real estate together with information sufficient to evaluate the credit worthiness of each of the qualified buyers listed, and associate either a category of interest or past purchase information indicative of a category of interest with each qualified buyer. The search engine allows potential sellers of commercial real estate to query the 30 searchable database. The communication equipment allows potential sellers of

commercial real estate property to communicate information concerning their property to qualified buyers.

In an aspect of this embodiment of the present invention, the data records that contain information concerning commercial real estate properties include  
5 information pertaining to square footage data representing a square footage of the commercial real estate; data characterizing the selected use of the commercial real estate; cost data including a rental price of the commercial real estate; data about the tenant in the commercial real estate; a real estate submarket identification; a classification of the commercial real estate based  
10 upon at least one of a building grade, an age of the building, and an extrapolation of comparable buildings; information pertaining to the submarket including rent data, vacancy data and absorption rate data; and building-specific information. In addition, the system also includes a computer for allowing qualified buyers to access the information concerning commercial real  
15 estate properties for which they receive information from potential sellers.

Another preferred embodiment of the present invention is a method for facilitating commercial real estate information loan transactions. The method begins by providing at least one searchable database containing data records. The data records identify a plurality of qualified buyers of commercial real  
20 estate together with information sufficient to evaluate the credit worthiness of each of the qualified buyers listed; and associate either a category of interest or past purchase information indicative of a category of interest with each qualified buyer. The method continues by providing a search engine for allowing potential sellers of commercial real estate to query the searchable database.  
25 The method ends by allowing potential sellers of commercial real estate property to communicate information concerning their property to qualified buyers. The information includes market information and building-specific information.

Another preferred embodiment of the present invention is a method for providing information concerning real estate property. The method involves  
30 displaying a user interface; displaying a display element on the user interface to indicate a real estate property; linking the display element to a data entry for

the real estate property; allowing a user to select the display element; and, in response to selection of the display element, retrieving and displaying information from the data entry.

In an aspect of this embodiment of the present invention, the user selects  
5 the display element by dragging a pointer proximate to the display element, in which case the information from the data entry is automatically retrieved and displayed.

Optionally, the information from the data entry is displayed in a pop-up window. Also, optionally, the method also involves allowing the user to click on  
10 the pop-up window to receive more information from the data entry.

In another aspect of this embodiment of the present invention, the user selects the display element clicking through the indicator, using a touch screen, or using a voice activated response system.

In another aspect of this embodiment of the present invention, the  
15 information includes one or more of an image of the real estate property, audio content relating to the real estate property, video of the real estate property, and textual information on the real estate property. The textual information includes one of an address of the real estate property, a building class size of the real estate property, a building size of the real estate property, a number of  
20 floors of the real estate property, a year in which the real estate property was built, a buyer of the real estate property, a sale price of the real estate property, a lease price of the real estate property, a price per square foot of the real estate property, and a cap rate of the real estate property.

In another aspect of this embodiment of the present invention, the user  
25 interface is a chart and the display element is a textual listing of the real estate property.

In another aspect of this embodiment of the present invention, the user interface is a map and the display element is an icon. The icon can signify a characteristic of the real estate property. For example, the icon could signify  
30 that the real estate property is an office space, an industrial space, or a retail space. Or, the icon could signify that the real estate property is a



condominium, a townhouse, or a single family home. The icon could also signify the price range of the real estate property or the price of the real estate property.

5 Underlying the seemingly automatic retrieval of location-based  
information of the previous preferred embodiment of the present invention,  
another preferred embodiment of the present invention is a database containing  
data concerning real estate information and/or other information of interest,  
including merchant information, tourist information, service provider  
information, and the like. The information in the database is correlated with  
10 geographic location information to allow data pertaining to a particular  
geographic location to be retrieved. Information may be retrieved on demand in  
response to user queries or searches, or the information may be retrieved in  
response to predetermined system queries. The use of the predetermined  
system queries allows the seemingly automatic display of pertinent information  
15 as mentioned before.

The ability to automatically retrieve information corresponding to a  
geographic location in response to predetermined queries can be used in  
various contexts. As mentioned before, the information can be used in  
conjunction with a GPS or other position determining system to automatically  
20 display geographically relevant information based on a user's position, whether  
in a vehicle or using a handheld system. The automatic retrieval can also be  
used to provide a user-friendly graphical user interface for accessing  
information stored in the database.

In accordance with one important aspect of the present invention, the  
25 system includes software for providing a unique graphical user interface for  
displaying information retrieved from a database. Specifically, when data is  
retrieved from the database (either as a result of a user query or a  
predetermined query), only a portion of the data retrieved is displayed. The  
remaining data is stored locally for quick retrieval, such as in a cache. The  
30 portion of the data that is displayed may be displayed in a text

grid/spreadsheet/chart format. Optionally, the data may be displayed in a map format.

In accordance with one aspect of the present invention, to provide an uncluttered, yet user-friendly interface, only a subset of the data that is  
5 retrieved is displayed. Additional data is automatically displayed in response to a user input, such as passing a pointing device icon over text on the grid/spreadsheet/chart or over an icon on the map display. In the embodiment described herein, the data retrieved, but not initially displayed, is a digital  
10 image of the property presented with address and/or price information. The interface further includes a means for users to optionally retrieve even further information from the database by, for example, selecting (e.g., with a pointing device) text or an icon representing the desired information. It should be understood, however, that this graphical user interface feature is more widely applicable and, indeed, can be used in connection with any system where there  
15 is an advantage to use of this display technique.

In accordance with another important aspect of the present invention, icons can be used to provide information about the properties shown in the text grid/spreadsheet/chart or on the map view of the user interface. In the map  
20 view, for instance, an icon's location on a map provides geographic location information. To provide further information, the icon may be in a shape or appearance that conveys information concerning the type of property, the cost of the property, or the identity of the broker listing the property. Further, the icon may be a small digital image (thumbnail image) of the property itself to convey further information.

25 The graphical user interface features described herein may be used in various combinations to customize functionality for different purposes to leverage the use of the database. For example, it is possible for the system operator to provide custom content for individual brokers by using predetermined queries to display only properties listed by a particular broker  
30 and by displaying the information as an essentially seamless part of the broker's web site. The hierarchical display of information retrieved from the

database can be used in other contexts in which display of too much information is confusing or impractical, and resubmitting queries to get basic information is too cumbersome for users. Thus, the present invention also provides graphical user interface tools with broad applicability.

5

These and other objects, aspects, and advantages of the present invention are described in greater detail in the detailed description of the invention, the appended drawings, and the claims. Additional features and advantages of the invention will be set forth in the description that follows, will be apparent from the description, or may be learned by practicing the invention.

10

### **BRIEF DESCRIPTION OF THE DRAWINGS**

Figure 1 shows the overall system architecture of the present invention, according to a preferred embodiment of the present invention.

15

Figure 2 is a schematic representation of the mobile information gathering system and related system architecture, according to a preferred embodiment of the present invention.

20

Figures 3-16 are slides that graphically depict the commercial real estate market and the process for transactions within that market, to provide the context in which a preferred embodiment of the present invention operates.

Figures 17-34 are slides that graphically depict a preferred embodiment of the system and method for collection and distribution of information according to the present invention.

25

Figures 35-71 are web screen shots that depict a preferred embodiment of the system and method for collection, distribution and use of information according to the present invention.

Figure 72 is a high level overview of the proposed method and system for listing, brokering, and exchanging carrier capacity, according to a preferred embodiment of the present invention.

Figure 73 is a drawing of the apparatus that can be used as an entry point into the system to utilize the method, according to a preferred embodiment of the present invention.

## 5 **DETAILED DESCRIPTION**

The system of the present invention, the preferred embodiment of which is referred to as COSTAR EXCHANGE™, is a web-based marketplace that efficiently and securely facilitates the buying and selling of commercial properties.

10 The invention includes, but is not limited to the following: a large-scale database of commercial properties for sale (over 38,000 commercial properties with a combined asset value in excess of \$40 billion in the preferred embodiment); a secure web service, the preferred embodiment of which is known as COSTAR EXCHANGE,™ for distributing the information; and  
15 communication and data processing equipment that allow sellers of properties to list extensive information about their properties for sale on the site at no cost. The site affords an efficient means for these sellers to reach a large universe of potential buyers. In the currently preferred embodiment, potential buyers pay a subscription fee to access the system. Sellers of investment-grade  
20 properties have the additional option of selecting limited, secure distribution of their properties in order to address confidentiality requirements.

The system of the present invention makes it possible for a user to extract data relating to virtually every aspect of a commercial real estate transaction. Although the data is described as being contained within a “database”, data can  
25 be stored in a plurality of linked physical locations or data sources. The significant aspect is that the database contains information relating to areas that have previously been only accessible in isolation from one another. By providing a unified data model and a system for forming a variety of queries against the unified database, it is possible to understand with precision the  
30 relationship between market factors that have heretofore only been understood in an anecdotal way. For example, prior to the present invention, a commercial

real estate investor might have recognized the value of investing in a particular building that had low vacancy but was located in an area of extremely high vacancy. If so, this investor might also be interested in knowing that a building that is on the market has lost a big tenant. Prior to the system of the present invention, however, there has been no unified way of storing an investor's investment criteria and continually monitoring the market so as to have the ability to provide a real-time alert when a property matching the investor's investment criteria has become available. This advantage is achieved because databases containing leasing information are linked with databases concerning buildings for sale, which are linked to databases that store a particular investor's investment criteria, which are linked to databases that store the data necessary to determine market conditions, and so on. It is through the connections of previously discrete databases that the synergies and advantages of the present invention arise.

15 In this sense, the present invention resides in the interconnection of related pieces of information that allows a true understanding and deep appreciation of a commercial real estate market. The user of the system of the present invention has the ability to understand data in context, because the data in one data source is influenced by other data sources that have heretofore not been connected.

20 The data stored in the databases of the present invention is from various sources. For example, property information can be obtained by researching information sold and information available. Tenant information can be obtained through personal inspection of properties and from brokers. Market analytics is obtained through an historical analysis. In addition, tax assessment information provides yet another source of information.

30 Another way of gathering information is through a mobile information-collecting device, according to another aspect of the present invention. The mobile information-collecting device is a truck or other vehicle that is equipped with a GPS system and a link to the databases of the system of the present invention. The device further includes a display screen and input device, and

can include a web camera. The system is designed such that the location of the truck or other mobile information gathering device at any particular instance is correlated to the database so that information concerning properties in the vicinity of the truck is automatically displayed on the display screen located in the truck. Thus, as a truck passes a particular commercial real estate building, information pertaining to that building is displayed, and the operator can determine whether additional information has to be gathered or whether information obtained in the database should be modified. The important thing is that the system automatically retrieves and displays the entirety of the currently available information so that the operator can determine if pieces of information are missing or need to be updated.

The mobile information gathering system of the present invention has other applications as well. For example, a similar device is used in connection with residential real estate listings to display pertinent information and directions to the nearest available home for sale. The pertinent information could include, for example, photographs that pop-up on the display as the mobile information-collecting device travels. Likewise, the system displays information concerning merchants, service providers, or tourist attractions within a particular area in a non-commercial setting. For example, the GPS in a passenger car is linked to a database that contains information about local merchants, such as restaurants. As the driver approaches these restaurants, the system displays advertisements or other information pertaining to the restaurants.

Thus, in accordance with the present invention, the system provides location-sensitive real estate information automatically and performs other useful tasks by correlating a vehicle's instantaneous position to data stored in a remote database. The system identifies geographically pertinent information and transmits the geographically pertinent information to the vehicle for display on the display panel within the vehicle or, perhaps, for audio announcements to the vehicle occupant.

## **System Architecture**

Figure 1 shows the overall system architecture of a preferred embodiment of the present invention. As shown, the principal components of the system architecture include data sources A10, a contact management system A14, data mining applications A12, a core data warehouse A16, database processes A18, and Internet integration applications A20. Broadly stated, contact management system A14 directs data mining applications A12 to obtain commercial real estate information from data sources A10; data mining applications A12 gather, organize, and transmit the information to core data warehouse A16; database processes A18 access the information from core data warehouse A16 and organize it for manipulation by Internet integration application A20 (e.g., by building database sets); and Internet integration application A20 presents the information to the end user for review and manipulation by the user. In terms of input and output, data sources A10, contact management system A14, and data mining applications A12 represent the input side of the system architecture, while database processes A18 and Internet integration application A20 represent the output side to which an end user of the system is connected.

Data sources A10 represent a vast network of entities generating information about commercial real estate. Each entity maintains information specific to the business or process in which it is involved. Contact management system A14 directs the input systems of data mining applications A12 to conduct continuous pollings of data sources A10. By conducting continuous, periodic polling of data sources A10, data mining applications A12 ensures that core data warehouse A16 contains up-to-date information.

Data sources A10 include such data repositories as property managers A22, proprietary databases A24, Internet A26, site inspections A28, building owners A30, brokerage firms A32, REIT filings A34, tenant canvassing A36, public records A38, and comparable information research firms A40. Property managers A22, building owners A30, and brokerage firms A32 maintain records on the individual properties in which they are involved, concerning such information as transaction histories and characteristics of a property. To obtain

this information, contact management system A14 supports communications (e.g., by telephone or email) between representatives operating the present invention and the personnel of property managers A22, building owners A30, and brokerage firms A32.

5           Proprietary databases A24, Internet A26, and REIT filings A34 are data source entities that require review by personnel associated with contact management system A14 and data mining applications A12. The personnel pull the pertinent information from these data sources for gathering by data mining applications A12 and storage by core data warehouse A16.

10           Site inspections A28 and tenant canvassing A36 are data source entities that target specific regions or properties on which to obtain commercial real estate information. Typically, this information is obtained manually by visiting a particular location and recording observations and/or by using a mobile information gathering system.

15           Public records A38 and comparable information research firm A40 are automated data source services that digitally record information and automatically transmit the information to data mining applications A12.

            Data mining applications A12 receives the information from data sources A10 into separate modules or applications, including, in a preferred  
20           embodiment of the present invention, property information application A42, market analytics application A44, tenant information application A46, assessment information application A48, and comparables information application A50.

            Property information application A42 and tenant information source A46  
25           receive information from property managers A22, proprietary databases A24, Internet A26, site inspections A28, building owners A30, brokerage firms A32, REIT filings A34, and tenant canvassing A36. Assessment information application A48 receives information from public records A38. Comparables information application A50 receives information from comparable information  
30           research firm A40. As sort of a hybrid of property information application A42 and tenant information application A46, market analytics application A44



receives information from data sources A10 through property information application A42 and tenant information application A46 and conducts analyses of the data to present historical evaluations of transactions.

5 Property information application A42 includes sales information on properties, such as physical characteristics, available space, selling price, and income expense statements. Tenant information application A46 includes leasing information such as lease turnover dates, average price per square foot, and the types of tenant under lease. Market analytics application A44 draws on information from property information application A42 and tenant information  
10 application A46 to analyze transactions over a long period of time (e.g., ten years) to provide valuable historical performance data. Assessment information application A48 includes property valuations, e.g., tax assessments. Comparables information application A50 includes broad market information that enables accurate comparisons of property values based, for example, on  
15 type of building structure and geographic proximity.

Each of the modules of data mining applications A12 is highly interrelated with other modules, such that a change of information in one module necessitates a change of information in another. For example, if tenant canvassing A36 learns that a tenant has moved out of property A and into  
20 property B, tenant information application A46 must note under the tenant's information the new space the tenant occupies; additionally, and as a direct result of the transaction, property information application A42 must note the new vacant space in property A and the now occupied space in property B. In turn, the adjustments in occupancy affect the analysis performed by market  
25 analytics application A44, e.g., if property A is now left with a low occupancy rate, it compares unfavorably to other properties similarly situated. In addition, considering the likely scenario that property B was occupied by a previous tenant who moved elsewhere, the seemingly singular event of the initial transaction (tenant's move from property A to property B) is actually a part of a  
30 series of transactions through the interrelated modules of data mining applications A12. As a helpful analogy, data mining applications A12, with its

group of interrelated modules, is effectively an enormous accounting ledger that tracks property space instead of dollars, and records a series of related transactions in zero-sum fashion, akin to credits and related debits. After recording a single transaction, the present invention reconciles the entries in  
5 each interrelated module by confirming that the interrelated entries are internally consistent.

As data mining applications A12 receive real estate information from data sources A10 and process the impact of that information through the modules or applications, the information is stored and constantly updated in core data  
10 warehouse A16. Database processes A18 access this data from the output side of core data warehouse A16 and create database sets compatible with formats required by Internet integration application A20. Internet integration application A20 manipulates the database sets in response to commands from a user, and presents the results of database manipulations, e.g., search query  
15 results, to the user in the form of graphical user interfaces. The specific manipulations executed by Internet integration application A20 are described below in more detail under the subheading "Detailed Description - Website Operation."

Figure 2 is a schematic representation of the mobile information  
20 gathering system and related system architecture. As shown, the mobile information-collecting device is a truck 100 that is equipped with a GPS system 110 and a link for data transmission (through wireless network 120, the Internet 130 and/or by express shipping 140) to the databases 200 of the system of the present invention which are shown at a dispatch center 170. The  
25 device (truck) 100 further includes a display screen, audio output and data input device (here in the form of a portable computer 105), and can also include a web camera 115 that transmits a continuous "driver's eye" view to the dispatch center 170 . Other equipment includes digital camera 112, wireless telephone 114, and other computer and communication equipment.

30 The system is designed such that the location of the truck or other mobile information gathering device 100 at any particular instance is correlated to the

database 200 so that information concerning properties in the vicinity of the truck is automatically displayed on the display screen located in the truck. Thus, as a truck passes a particular commercial real estate building, information pertaining to that building is displayed, and the operator can determine whether additional information has to be gathered or whether information obtained in the database should be modified. The important thing is that the system automatically retrieves and displays the entirety of the currently available information so that the operator can determine if pieces of information are missing or need to be updated.

As shown, in the context of the system of the present invention, the mobile data gathering and dissemination vehicle 100 is coordinated by a central system 170 for tracking and dispatch of mobile vehicles 100. Using a multiple network access and routing device 180, the system employs least cost routing for data transfer system for transmitting data from the mobile vehicle. The mobile data gathering and dissemination vehicle plays an important role in quality control and synchronization of data stored in data sources by periodically verifying and filling gaps in the data stored in the databases. The system also cross checks data sources and prompts the input agent (whether in the field or a central office) to make necessary changes in databases affected.

An important and more widely applicable aspect of the present invention is correlation of data stored in a remote location to vehicle position in real time. This feature is applicable in the context of commercial real estate, residential real estate, and as part of a merchant directory. For example, a similar device can be used in connection with residential real estate listings to display pertinent information and directions to the nearest available home for sale. Likewise, the system could be used to display information concerning merchants within a particular area in a non-commercial setting. For example, the GPS in a passenger car could be linked to a database that contains information about local merchants, such as restaurants. As the driver approaches these restaurants, the system could display advertisements or other information pertaining to the restaurants.

Thus, in accordance with the present invention, the system is able to provide location-sensitive real estate information automatically and perform other useful tasks by correlating a vehicle's instantaneous position to data stored in a remote database to identify geographically pertinent information and  
5 by transmitting the geographically pertinent information to the vehicle, by for example displaying the information on the display panel within the vehicle or by playing audio announcements of the information.

In the context of commercial real estate, the mobile information collection and dissemination system for correlating data to a vehicle's location and for  
10 transmitting the data to the vehicle in real time includes the vehicle 100 equipped with equipment for both transmitting and receiving data. The vehicle position is preferably determined by GPS and the system links GPS data to real estate information. The system intelligently correlates vehicle position to real estate data, retrieves the appropriate real estate data as the vehicle travels and  
15 then transmits information back and forth over a network, preferably the global information network (i.e., the Internet or web). As the vehicle drives down the street, pictures of the buildings are automatically displayed on a display screen. The user need not search, because the information just pops up on the display screen. This information could include, for example, descriptions and  
20 photographs of buildings. The data changes automatically as the user drives down the street. The user (in this example a field researcher) is prompted to gather and transmit information that is missing.

In addition to using the system of the present invention to research properties, the system brokers or customers could use the system such that as  
25 the broker or prospective tenant drives around, the information on the property nearest them comes up. Such a system is also useful for residential real estate brokers. Naturally, access to data and the amount of content provided must be tailored to the particular user to address security and market concerns. Using data available on the database of the present invention, however, the system  
30 could provide a virtual tour of a commercial building. The same approach could

be employed in the residential context provided one had access to a database of residential property information.

Linking position data to commercial information is valuable in other contexts as well. For example, position location information could be correlated  
5 with information concerning commercial establishments, such as restaurants, for advertising or directory assistance purposes. In context of advertising or marketing, the system intelligently correlates vehicle position to merchant data, retrieves the appropriate merchant data, and then transmits information back and forth over a network, preferably the global information network (i.e., the  
10 Internet or web). As the vehicle drives down the street, ads, promotions, tourist information, or other merchant or general interest information, including pictures of the buildings, are automatically displayed on a display screen. The user need not search nor do anything, as the information just pops up. The data changes automatically as the user drives down the street. The system  
15 operator could sell advertisements to be displayed in cars via GPS. The information may be audio and/or a visual on a screen.

The system also stores the recent history or sequence of vehicle movement so that the speed and the direction of movement can be ascertained. Direction of movement information is useful in the real estate information  
20 gathering and display context since it helps the central system track, dispatch, and route mobile vehicles. Direction of movement information is useful in the merchant directory/advertising/marketing context since the direction of movement affects the geographic desirability of commercial establishments. For example, if a user is driving 80 miles an hour going South, restaurants that are  
25 5 miles back are not as desirable as restaurants that are 5 miles ahead (establishments 5 miles East or West are also not too desirable). Thus, as the vehicle moves the system preferably takes speed and direction of travel into account when correlating data such as ads, promotions, tourist information, or other merchant or general interest information, including pictures of the  
30 buildings, with vehicle position for display on the display screen.

The information to be retrieved and displayed to the user based on the user's location can be stored locally with the user or transmitted to the user from a remote database. As the display content becomes data rich, however, storing the information locally and keeping information uniform and current becomes difficult. For this reason, transmission from a remote repository is preferred whenever sufficient transmission bandwidth is available.

Linking position data to commercial information is also useful in contexts other than the mobile vehicle. The system could be used to transmit location sensitive real estate information to a user's PDA or laptop computer, for example. For example, PDA's such as those made by Palm™ will soon have both a GPS capability and a data transmission capacity. Using the system of the present invention, information could be retrieved from the database of the present invention and displayed on the user's PDA or laptop computer based on the user's location. The information can be stored locally with the user or transmitted to the user from a remote database. For example, a user in Loudoun County investigating a property, looking at 5 or 6 adjoining parcels could have a Palm VII telling the user who owns the parcels around where the user is standing, who the tenants are, what the rent is, and what the sale points are.

### **System Operation**

Figures 3-17 are slides that graphically depict the commercial real estate market and the process for transactions within that market, to provide the context in which a preferred embodiment of the present invention operates.

Referring now to Figures 3 through 17, Figure 3 shows the electronic commerce segments involved in commercial real estate. Specifically, there is a need for leasing information, sale information, industry news, comparable sales information, tenant information, information for marketing to professionals, and information for marketing to corporations and software. These will be described below. Concerning "for sale information," the information will list what types of

buildings are for sale. Concerning leasing information, the information pertains to buildings that are available for lease or to space within buildings that are available for lease. Concerning industry news, the information can be any of a wide variety of information that provides industry professionals with news that they need. Concerning tenant information, information will relate to the needs and financial characteristics of commercial real estate tenants. Analytic information relates to the types of information that real estate investors or landlords use to assess the market and the value of any particular property.

The commercial real estate market is enormous. Within the United States alone, the collective value of commercial real estate assets is estimated to be in excess of \$4 trillion dollars. Approximately one hundred thousand building sale transactions occur each year. The value of these transactions is estimated to exceed \$300 billion. Every transaction involves multiple parties. Notwithstanding the enormity of this market, the prior art system for facilitating these transactions is enormously inefficient.

As shown in Figure 4, the current prior art inefficiencies in the market include the fact that only a fraction of the real audience ever sees any particular property. In particular, the conventional way of selling commercial real estate is through buyers' brokers representing the buyers, and sellers' brokers representing the sellers. Unlike the sale of single family homes, the availability of high-value commercial real estate is not widely advertised. This is because of the way that high-value commercial real estate properties have typically been marketed in the past. In particular, when a seller's broker is prepared to offer a seller's building, the seller prepares a lengthy offering document and distributes the lengthy offering document to a very small group of select potential purchasers. These potential purchasers may be thought of as being within the inner circle of the seller's agent. This practice is so prevalent that if a potential buyer or buyer's broker receives a building offering from a broker and the buyer's broker or potential investor knows that they are not within that seller's broker's inner circle, they will assume that all potential buyers within the seller's broker's inner circle have passed on the building and that the mere

receipt of the building offering indicates a building value that is tarnished in some way.

Other inefficiencies in the current prior art way of selling commercial real estate include the fact that there is a significant marketing expense involved since the marketing involves preparation of lengthy documentation and because the system in place is not highly automated.

Another inefficiency in the prior art is a basic economic inefficiency of the market. Because the number of bidders is limited, the price is lower than it might otherwise be if all possible bidders or a greater number of bidders were allowed to bid on the property. In addition, the current system is inefficient because it is very time-consuming. Moreover, there is too much risk and expense for the buyer, and buyers see only a fraction of their options.

The commercial real estate process will now be described beginning with the conventional prior art process for leasing transactions. As shown in Figure 5, from the vantage point of the prospective tenant, the leasing transaction is basically decided based upon three considerations: 1) Do I like this location? 2) Do I like the building? and 3) Can I afford this rent? As shown in Figure 6, the main tool used to convey a space for a lease opportunity is a one-page flyer. Thus, the conventional prior art marketing approach for marketing a property for leasing is to distribute 300 to 500 one-page flyers locally, as shown in Figure 7.

In contrast, the prior art investment sales process is considerably more complex. To begin with, there are many more considerations as summarized on Figure 8. These include: 1) Is this the right type of property?; 2) Do we invest in properties in this area?; 3) Is this building leased up enough?; 4) When do the tenants' leases expire?; 5) Are these good credit tenants?; 6) Does this building have enough income?; 7) When these tenants' leases roll, will I get good rents?; 8) Does this market have a low vacancy rate, such that I can re-lease quickly?; 9) When I have to re-lease, who will my competitors be?; 10) Based on other sales in this area, is this a fair price?; 11) What multiple revenues are other buildings selling for?; 12) Can I get reasonable financing for this property?; 13)



Will the seller accept an offer of \$35 million?; 14) Will the seller accept these legal terms of sale?; and 15) Did my engineers find structural or environmental flaws? Because of the complexity of issues that must be considered, the main tool used in the prior art to convey a major commercial property investment sale opportunity is the investment package, which typically is a document on the order of 100 pages, as shown in Figure 9.

Figure 10 shows the relative comparison between commercial leasing and investment sales. As noted before, in the case of commercial leasing, the main tool is a one-page flyer that typically costs \$1.00 to \$3.50 per copy. In contrast, the main tool for investment sales, i.e., the investment package, costs between \$125.00 to \$250.00 per copy. The distribution of these books is very different, as well. In particular, as shown in Figure 11, if one wishes to sell a particular building, the books are distributed to a group of 30-50 sophisticated real estate investors and brokers internationally.

Consequently, only several dozen buyers from a universe of thousands get a copy of the "book," i.e., the investment package, as graphically illustrated by Figure 12. The select few buyers from the universe of thousands that get a book are typically referred to as the inner circle of the seller's agent as shown in Figure 13. The remaining universe of potential buyers that are not selected, i.e., that are not in the inner circle of the seller's agent, are referred to as the outer circle, as graphically illustrated in Figure 14.

As alluded to earlier, a distinctive characteristic of the commercial real estate industry is what happens if a broker or investor in the outer circle learns that the building is for sale as graphically illustrated in Figure 15. In this instance, the property is immediately tarnished and the value of the property is reduced. This is because the practice of distribution of the investment book to only those buyers, agents, or investors within the broker's inner circle is so prevalent that, if a buyer's broker or investor that is not in the seller's agent's inner circle receives a copy of the book, they will assume that all of the individuals in the inner circle have passed on the property and, for that reason, the property is tarnished, and the value is reduced. Thus, for acceptance within

the commercial real estate community, the present invention includes a secure way of controlling distribution.

Figure 16 shows an example of the table of contents of a prior art investment book for a high-value commercial property. As shown therein, the investment book typically includes an investment summary, a property description, a market overview, a competitive leasing analysis, information concerning comparable sales, information concerning tenancy, and a financial analysis. In a conventional setting, all of this information is supplied by the seller – an interested party. Because the seller has an interest in selling the property, this information is naturally suspect. Thus, notwithstanding the tremendous amount of effort that is necessary to compile the information, the information is ultimately of little value to a potential buyer, and must be verified with an objective provider of real estate information, or independently verified.

Figures 17-34 are slides that graphically depict a preferred embodiment of the system and method for collection and distribution of information according to the present invention. This system and method operate within the above-described commercial real estate market and transactional process.

An important aspect of the present invention is the provision of networked databases that can provide much of the information required in the investment book. Figure 17 illustrates networked databases of a preferred embodiment of the present invention correlated to the typical contents of a prior art investment book.

Referring to the graphical depiction in Figure 18, the system of the present invention will now be described. In the figure, the system of the present invention is referred to as COSTAR EXCHANGE™. COSTAR EXCHANGE™ is a system that allows owners to list their properties for sale on an Internet website at no cost. A generation of the product is derived from a master database, incorporating much of the data from, for example, tenant and property databases, but emphasizing the sales process as opposed to the listing process. Emphasized information includes tenant information, leasing information, and income and expense data.

The system, i.e., COSTAR EXCHANGE™, is intended as a tool for facilitating commercial real estate transactions of various forms, as illustrated in Figure 18. In particular, the system can facilitate transactions between owners' and buyers' brokers, transactions between owners' brokers and buyers' brokers and transactions between owners' brokers and buyers. The system currently contemplated would not be used to facilitate direct owner to buyer transactions, as indicated by the arrow passing directly from owners to buyers that that does not involve the COSTAR EXCHANGE™.

In accordance with the present invention, the system operator, in this case, COSTAR, maintains a database. The database is preferably accessible through the global information network, i.e., Internet or web. In accordance with the invention, property owners list their properties for sale in COSTAR's database without being charged. As indicated in Figure 19, owners list properties in the database typically through a seller's broker that has a trusted relationship with the system operator of the COSTAR EXCHANGE™. Indeed, for properties worth more than \$5 million, there is preferably a contractual arrangement between the system operator and the seller's broker specifying, among other things, a non-disclosure agreement. In the system of the present invention, the system operator designates a team leader to interact with each of the seller's brokers.

For certain properties, it is critically important that distribution of the information pertaining to the property be strictly limited. To most closely replicate the conventional system under which the seller's broker has complete control over to whom the property is "shown," the system includes means for limiting distribution of information on the website. More particularly, the seller's broker that has listed the property has complete control over who has access to the information pertaining to the property that they have listed. In the currently preferred embodiment, the seller's broker works with the team leader to designate individuals that are to receive the information pertaining to the property. This would typically be those buyers or brokers within the "inner circle" of the seller's broker.

As shown in Figure 20, the seller's broker has designated five qualified buyers to receive access to the information on the website. Often, these qualified buyers are not subscribers to the general listing features of the system, and, therefore, do not have the ability to learn of the property listing on the system.

Once the seller's broker designates the qualified buyers, the system operator sends to the qualified buyers, preferably by overnight courier, an electronic ID, along with instructions for accessing the system. The qualified buyers use the electronic key to gain access to property listing.

Optionally, before the qualified buyers are allowed to view the information pertaining to the property, the system requires the qualified buyers to first enter into a confidentiality agreement. Preferably, the qualified buyers enter into the agreement by electronically executing and submitting an online confidentiality agreement as indicated in Figure 21. Executing and submitting the confidentiality agreement could occur, for example, by clicking-through an "accept" button for an agreement posted online or by exchanging electronic documents having electronic signatures. Upon receipt of the executed confidentiality agreement, the system operator allows qualified buyers to access the information pertaining to the property, using the electronic key as described hereinafter. Figure 22 graphically indicates that the qualified buyers now have access to the system by showing the buyers with their blindfolds removed.

In accordance with another aspect of the present invention, the system operator has a plurality of clients (i.e., subscribers), who presumably are paying for access to information on the COSTAR EXCHANGE™. These exchange clients are active buyers and brokers of buyers of investment properties. Since COSTAR EXCHANGE™ preferably lists a wide variety of properties, including many properties that are not subject to the confidentiality concern, these exchange clients are assumed to routinely query the system for properties meeting certain descriptions, and, indeed, the system allows such queries.

In accordance with an important aspect of the present invention, when a confidential property meets the needs of one of these exchange clients, that fact

is indicated in a general way without providing information that would allow the exchange client to easily identify the specific property. In other words, the exchange client is notified that there is a property in a particular city meeting the exchange client's requirements, but he is not told what that property is or who the seller's broker is. As clients of COSTAR, however, exchange clients all have access to the system as indicated by the graphical depiction of the ID key. Thus, in Figure 22, the exchange clients are shown as a second ring of potential buyers that do not yet have access to the specific information concerning the building, as indicated by the blindfolds, but can learn of its existence.

In accordance with an important aspect of the present invention, if one or more of the clients are interested in learning more about the property, they can indicate their interest through e-mail or alternative communication directed to the system operator. The system operator will then forward the inquiry to the seller's broker so that the seller's broker can determine whether or not the particular client will receive access to the information. In the example shown in Figure 22, the seller's broker, in response to the query, has determined not to disclose the details of the property to the exchange client that requested information. This "no" answer is conveyed, by the system operator, to the exchange client that raised the request, as indicated by arrows in Figure 22.

The system, therefore, does not divulge the property listing to the denied client.

Figure 23 shows an alternative arrangement in which the seller's broker has indicated "yes" to the request for information. In response to this "yes" indication, the system operator grants the accepted client access to the property listing.

Optionally, before the system grants the accepted client access, the system provides the newly authorized potential buyer with a confidentiality agreement. After executing and submitting the confidentiality agreement, the system allows the newly authorized potential buyer to access to the listing for that property. Preferably, the newly authorized potential buyer enters into the agreement by electronically executing and submitting an online confidentiality agreement. Executing and submitting the confidentiality agreement could

occur, for example, by clicking-through an “accept” button for an agreement posted online or by exchanging electronic documents having electronic signatures.

5 Figures 24 and 25 illustrate this aspect of the present invention. Figure 24 shows, graphically, the confidentiality agreement being provided to the newly authorized buyer. Figure 25 shows that having executed and submitted the confidentiality agreement, the newly authorized buyer moves into the inner circle and has his blindfold removed so that he can see the information. In this way, the pool of qualified buyers can be greatly increased, but the seller’s broker  
10 still maintains complete control over who is allowed to see the listing. Thus, the present invention allows the seller’s and seller’s brokers to access a far greater pool of qualified buyers without the highly undesirable act of distributing the information to all interested parties.

15 It will naturally be appreciated that this system of information distribution is useful in contexts other than the commercial real estate context, such as purchases of business enterprises.

In accordance with yet another aspect of the present invention, the listings on the system are made available not only to qualified buyers and clients of the system, but to all potential buyers so as to encompass an  
20 extremely wide pool of potential buyers.

In the preferred embodiment of the present invention, the pool of potential buyers that are not clients of the system is given limited access to the database and can be allowed more detailed access on a pay-per-view basis, for example. As indicated in Figure 26, this large pool of buyers does not have detailed  
25 access to the listing, but could be allowed access, or the opportunity to gain access to learn of the existence of the listing. The lack of detailed information, is, again, indicated by the blindfold on the depiction of the potential buyer in Figure 26.

30 In accordance with the preferred embodiment of the present invention, the more wide spread dissemination of the information may be delayed for a period of time to allow preferential access to persons within the seller’s inner

ring, or to exchange clients. This is not required, however, and the pool of potential buyers could be extended immediately.

As shown in Figure 27, through COSTAR EXCHANGE™, the existence of a listing, without the details of the listing, is disseminated to the entire pool of potential buyers as shown by the broken arrows. Any interested buyers can send an expression of interest or a request for information query back to the COSTAR EXCHANGE™, and, since these potential buyers are not current clients, the system operator obtains a profile of the potential buyers and transmits the request along with the profiles to the sellers brokers for a determination of which, if any, of the requesting potential buyers should receive access to the information.

As before and as shown in Figure 28, for those buyers to which the seller's broker has authorized distribution of the information, a packet containing an ID key is sent to the potential buyer. As shown in Figures 29 and 30, after first executing and submitting confidentiality agreements (if so required), these potential buyers are moved into the inner circle of qualified buyers who can obtain access to property information. Figure 30 depicts these potential buyers moved into the inner circle with their blindfolds removed. In this way, the entire pool of potential buyers can be brought into the bid process, but only to the extent authorized by the seller or seller's broker.

It should be apparent that the system of the present invention provides numerous benefits and creates great efficiencies in the commercial real estate market.

The benefits to the seller or seller's broker include the fact that the listing service is free. In addition, the distribution of information leading to their property is highly secure and controlled closely, and is at the seller or seller's broker's complete discretion. In addition, the system broadens the reach of their offering without tarnishing the value of the offering. The system also allows the development of a private buyer network, i.e., allows the seller's broker or seller to increase their inner ring of buyers by identifying new qualified buyers with whom the seller's broker or seller may not have previously

had a relationship. In addition, the system greatly accelerates the transaction and brings buyers that are more qualified into the system, which is likely to provide a more competitive market for the seller and, thus, bring the seller a higher price. The benefits are summarized in Figure 31.

5 As indicated in Figure 32, the system also provides benefits to qualified buyers. In particular, in the current system, the qualified buyer may have access to only the properties of select agents that place that qualified buyer into their inner circle. And, in connection with the present invention, the persons within a particular participating seller's inner circle are allowed access to a  
10 single property on COSTAR EXCHANGE™. However, there is a great benefit for potential buyers to become clients of the system, in that they will have access to over 40,000 properties.

There are numerous possible sources of operating revenue for the system operator using the system in the present invention. In particular, as  
15 summarized in Figure 33, the system operator can obtain revenue through a subscription service by charging for access to the system. In addition, the system operator can obtain revenue through banner advertising and lender referral fees. In addition, the system operator could obtain revenues through buyer/seller matching fees, click-through revenue, and fees for enhanced  
20 listings on the database. Also, the system operator obtains value through information posted onto the system since it memorizes the cost of independently obtaining such data.

In accordance with the present invention, the ID key (shown in Figure 34) includes a unique serial number printed on the back and generates a six-digit  
25 password that changes at a predetermined frequency, preferably once every minute. Thus, the user's ID is always changing so that it provides a high level of security.

The system of the present invention also facilitates mortgage lending. For example, using the information concerning the building characteristics and the  
30 information concerning prospective borrowers that is maintained within the system, the system facilitates matching borrowers with lenders. Alternatively,



the system can list all available lenders, either generally or only those lenders that are willing to borrow money from a particular property, and the borrower can click on a particular lender and obtain information or submit information for loan pre-approval. In addition, the system functions as a due diligence tool  
5 for lenders, providing the information necessary to determine whether to provide a loan to buy a building, based on information about the building.

As a further aspect of the present invention, a lending product is provided on COSTAR EXCHANGE™ that lists every lender that CoStar tracks. The present invention enables customers to click on a lender's name in the list to  
10 request a free package of materials free from that lender. COSTAR EXCHANGE™ facilitates this communication between the customer and a prospective lender.

The remaining figures illustrate a graphical presentation and description of the present invention, as well as a series of screen images presented during  
15 operation of the invention. The screen images provide a self-evident and exemplary description of the flow through the system by a user as detailed hereinafter.

### **Website Operation**

In a preferred embodiment, the website operates in the following manner.  
20 Through an Internet connection provided by an Internet service provider, a user enters the Internet address of the present invention to access the website of the present invention. To ensure secured access, the website presents the user with a login page, requesting a user name and password. Once the user enters an authorized user name and password and agrees to the Terms of Use, the  
25 website presents a homepage, as shown in Figure 35, with the following features. One section of the homepage includes a menu 100 with labeled buttons, such as 'News,' 'Market Trends,' 'Events,' 'Products,' 'Company Information,' 'Stockholders,' 'Technical Support,' 'Contact Us,' 'Employment,' and 'Site Map.' By clicking on a button, a user can obtain more information  
30 and further sub-menus on the labeled topic. Another section of the homepage

lists summaries of news articles 102 related to the commercial real estate industry. In this section, the homepage provides additional buttons and links to further information concerning the news articles. The final section of the homepage presents a group of structured tabs 104 that a user can click  
5 through to access the functions of the present invention. The structured tabs subdivide the functions of the present invention into four categories: (1) For Sale, (2) For Lease, (3) Tenants, and (4) Sale Comps.

Under the For Sale structured tab, a user has three primary functions 106 and several secondary functions 108. The primary functions 106 are  
10 represented by buttons through which the user can click to access the functions. The three primary functions are Lookup Property, Search Database, and Add Listing. The secondary functions include, but are not limited to, Saved Searches, Alerts, Membership, Professional Profile, Demonstration, Frequently Asked Questions (FAQ), Confidential Listings, Buyer-Seller Match, Forms &  
15 Contracts, and Help.

By clicking through Saved Searches, a user can view a list of searches that were previously saved, as shown in Figure 36. The list includes a description of the search, the date and time the searches were created, and whether or not an alert notification was activated (to be described below). A  
20 user clicks on the description of the search to view the results of that search. A user can also change the alert notification of a search by clicking the check box on the list. Finally, a user can delete a search by clicking on a delete button (not shown).

Returning to the homepage, under the For Sale structured tab, clicking  
25 on the secondary function Alerts presents the user with that user's Alert settings as shown in Figure 37. The present invention monitors the saved searches and alerts a user when new listings are added that match the existing saved search criteria. There are four Alert settings: (1) an on/off indicator to activate or deactivate the Alert feature, (2) the number of saved searches being  
30 monitored and which individual searches are being monitored, (3) the e-mail address to which the Alerts are sent, and (4) frequency with which alerts are

sent (e.g., once per day). From the Alert Setting page, a user can click on the appropriate buttons for each of these settings to change them as desired.

Returning again to the homepage, by clicking through the secondary function Membership, a user can view his or her membership status. Also from the homepage, by clicking on the Professional Profile secondary function a user can access her professional profile, as shown in Figure 38, which includes information that the present invention uses to customize operation of the website according to a user's particular professional background in commercial real estate. The profile information is used to alert the user to new or updated properties of the website operation, which the user might find useful. On the Professional Profile page, the present invention presents various data entry fields prompting for such information as the user's name, title, company website, business e-mail address, and other contact information. The Professional Profile page also asks for information describing the user such as the type of customer the user is (e.g., owner, individual, investor, corporate, or seller), the type of property the user is typically interested in purchasing, the investment range the user anticipates, the type of financing the user will use (leveraged or all cash), the locations in which the user is interested, recent transactions completed by the user, and the annual transaction activity targets of the user. The Professional Profile page also enables a user to indicate interest in subscription membership, listing properties, and banner advertising.

Returning to the homepage, under the For Sale structured tab, a user can click through the Demonstration button to view an example operation of the website for tutorial purposes. Also from the homepage, a user can click through the Frequently Asked Questions, or FAQ button, to view more information for tutorial purposes.

From the homepage, under the For Sale structured tab, a user can click through the Confidential Listings button to view real estate information maintained in secured access. After the Confidential Listings button is clicked, the website presents a Proprietary Listing Information access page, as shown in Figure 39. The website maintains secured access to the proprietary listings. A

user must enter a valid password and have a professional profile on file. In this manner, the present invention can forward the user's (potential buyer) information to the listing entity to initiate the unique buyer-seller matching feature. Once the user enters a valid password, the website displays a Request Pending screen , as shown in Figure 40, and contacts the listing entity to request access for the user/buyer. As shown in Figure 41 and 42, the website returns a results page indicating whether the listing entity has approved the user's/buyer's request. Figure 41 shows access that has been limited, while Figure 42 shows access that has been withheld. If access is approved, admitting the buyer into the "inner-circle," the website presents the subject property on a Property Details page (described below).

Also from the homepage under the For Sale structured tab, a user can click through the Buyer-Seller Match button to view real estate listings that match buyer criteria or seller criteria. Also from the homepage, a user can click through the secondary function of Forms & Contracts to view, download, and print standard documents used in the commercial real estate industry. This feature also autopopulates the documents with appropriate buyer, seller, and proprietary information.

Finally, under the secondary functions listed on the homepage under the For Sale structured tab, a user can click on the Help button to receive technical information concerning the operation of the website as well as administrative information concerning enrollment in the use of the present invention.

Turning attention to the primary functions of the For Sale structured tab, by clicking on the Lookup Property button on the homepage, a user can search for a particular property. After clicking through this button, the present invention presents a Property Lookup page, as shown in Figure 43, which asks for the property address, property name, listing number, building park, city, sub-market or listing company of the property to be found. The Property Lookup page also asks the user for the state in which the property is located. As an example of a property lookup, a user can enter the name "Park Place" in the data entry field for the property name. Then, when the user presses a Get

Results button, the website returns a property lookup results list listing (Figure 44) all of the properties in the database with the name "Park Place." The property list includes information such as address, city, state, price, square foot size, price per square foot, cap rate, and type of property (e.g., office, industrial, and land). As an example of another property lookup, to narrow the search, a user could specify the state in which "Park Place" property resides, for example, New York. With this search criteria, upon clicking through the Get Results button, the user would view a property lookup results list containing only the entry that reads "790 Park Place, Long Beach, New York" in Figure 44. After entering the search criteria and viewing the property lookup results list, a user can double-click on a property listing to obtain the details about that property, including an overview of the property, financial information, tenant information, market statistics, comps, and a map of the area in which the property resides. During operation of the property lookup function, the present invention provides a menu on the screen for ongoing options such as Return to Homepage, Print Results, or Enter a New Lookup Criteria.

Returning to the homepage under the For Sale structured tab, the second primary function is Search Database. After clicking on the Search Database button, the user activates a series of web pages that execute the search function of the present invention, beginning with the page shown in Figure 45. The search function is broken down into six steps by which a user enters search criteria and receives results. Each web page of the search function presents six buttons 1102 that can be clicked through to access the six steps of the search function. Each web page also includes general function buttons 1104, including a button to return to the homepage, a New Search button, a Saved Search button, a Results button, a Help button, and a Go to the Next Step button. The six steps of the search function include five steps for entering search criteria and a sixth step for obtaining the results of the search. The search criteria for steps one through five include property, location, price, size, and market. The general function buttons 1104 can be activated during any step, such that, e.g., a user can specify search criteria for only the first two

steps, and then can skip directly to obtaining results. Also, a user can skip back and forth between steps to revise information (the steps do not have to be completed in order).

5 The web page corresponding to Step One, Property Type, presents six options or categories of property types from which to choose. These property types include office, industrial, retail, hospitality, multi-family, and land. From this Step One page, the user has the option of selecting a property type by clicking on one of the six categories of property types or skipping the selection of a property type by clicking on the Location button or the Go to the Next Step  
10 button.

The web page corresponding to Step Two of the search function (Figure 46) asks the user to select a geographic method by which to search the database or to select the option of conducting a global search. The geographic methods by which a user can search the database include searching by region,  
15 state, market, county, city, or sub-market. The user can proceed to the next step of the search function by clicking on one of the six categories of geographic search methods, by choosing to conduct a global search, or by skipping a preferred geographic search method by clicking on the Step Three Price button or the Go to the Next Step button. If the user chooses to use a geographic  
20 search method, the website presents another page asking for more detail on that search method. For example, if the user chooses to conduct a regional geographic search, the present invention presents a map showing each region, as shown in Figure 47. The user clicks on a region to narrow the search to within that region. Similarly, for the state, market, county, city, and sub-  
25 market categories, a user chooses a particular state, market, county, city or sub-market to narrow the search. After selecting a geographic method by which to search the database or selecting a global search, the user moves on to the next step of the search criteria: Step Three Price.

Step Three of the search criteria allows a user to specify the financial  
30 conditions for the search. The user can choose both high and low ranges for the price categories or just one condition. As shown in Figure 48, the price

conditions are broken down into four categories: key indicators, annual income values, financing, and assessed values. Under key indicators, the user can specify a sale price, a price per square foot, and a cap rate. Under annual income values, a user can specify gross income, net operating income, and pre-tax cash flow. Under the financing heading, a user can specify down payment, loan amount, and loan payment in either annual or monthly terms. Under the assessed values subheading, the user can specify assessed land value, assessed improvement, and total assessed value either in total amounts or per square foot. Also under the assessed values subheading, the user can specify the ratio of land to improvements and the ratio of asking price to assessed value. Once the user has chosen values for the price conditions or has chosen to skip Step Three, the user proceeds to Step Four by clicking on the Go to Next Step button or the Step Four button.

As shown in Figure 49, the web page for Step Four enables the user to specify the size and features of the property for which the user is searching. The data entry fields for this search criteria are broken down into the subheadings: size, characteristics, and company. Under the size subheading, the user can specify the total rentable space in square feet, the typical floor size in square feet, and the number of stories. Under characteristics, the user can specify the year built, the year built or renovated, the total available square feet, the percent leased, the asking rental rates per square foot, the building class (e.g., A, B, or C), the type of use (e.g., income property or owner/user), the occupancy type (e.g., multi-tenant or single tenant), the building status (e.g., existing, under construction, or proposed), and whether to include flex buildings in the search. Under the company subheading, the user can specify the listing brokerage company and thereby limit the search to that company. Once the user has entered the desired data into the web page of Step Four, the user proceeds to Step Five by clicking on the Go to Next Step button or clicking on the Step Five button.

The web page for Step Five, as shown in Figure 50, enables a user to specify the market conditions of the user's desired property. These market

conditions are broken down into three subheadings: vacancy and absorption, inventory ratios, and inventory. Under the vacancy and absorption subheading, a user can specify the vacancy rate in a region or submarket, the point increase in the last 12 months in a region or submarket, the point decrease in the last 5 12 months in a region or submarket, the 12 months' gross absorption in a region or submarket, the 12 months' net absorption in a region or sub-market, and finally, the asking rental rates per square foot in a region or submarket in annual or monthly terms. Under the inventory ratios subheading, a user can specify the ratio of net absorption to inventory in a region or submarket, the 10 ratio of gross absorption to inventory in a region or submarket, and the ratio of under construction to inventory in a region or submarket. Under the inventory subheading, a user can specify the total building inventory in square feet in a region or submarket, the average building size in square feet in a region or submarket, the number of buildings in a region or in a submarket, and the 15 under construction in square feet in a region or submarket. Once a user has entered the desired values in the data entry fields of the Step Five web page, the user can return to other steps by clicking on those buttons or can proceed to Step Six to obtain the results for the search criteria. From the web page for Step Five, a user can access Step Six by clicking on the Get Results button or 20 by clicking on the Step Six button.

The web page for Step Six lists the results of the search in the form of a table, as illustrated in Figure 51. The table includes column headings such as address, city, state, price, square foot size, price per square foot, cap, and class of property.

25 The web page for Step Six, as with the other steps, also provides the user with the function buttons including Return to Homepage, New Search, Save Search, Add Property, Remove Property, and View Details. The New Search button enables a user to return to Step One of the search function to choose new search criteria. The Save Search button enables a user to save the search 30 criteria to be accessed, reviewed, and executed again later. In addition, by saving the search criteria a user can establish an alert notification that



automatically notifies the user of a new listing that satisfies that search's criteria. Figure 52 shows the Saved Search page displayed to a user who clicks through the Save Search button. The Saved Search page prompts a user for a file name and whether alert notification should be activated for the saved search.

The Add Property button (Figure 51) enables a user to add a property to the search results table that did not initially meet the search criteria but which the user would like to add to the list for comparison purposes. The Remove Property button enables the user to remove properties that did satisfy the search requirements but that the user has determined to be undesirable. Finally, a user can obtain details on a property listed in the search results table by either highlighting the property and clicking on the Get Details button, or by double-clicking on the entry in the table. The web page for Step Six also provides a Print button that enables a user to print out the search result table.

Once the user has chosen to view details on a particular property, the website presents an overview page (Figure 53) listing general information about the property, photographs of the property, three dimensional images of the property, and maps of the area in which the property is located. The overview page is one tabbed page of six tabbed pages that are presented as part of a Property Details page. Each tabbed page has a structured tab. The structured tabs include Overview, Financial, Tenants, Market, Comps, and Map.

Under the Overview structured tab, the general information on the property is broken down into eight subheadings including investment summary, highlights, property description, assessment value, location, building team, transaction guidelines, and "presented by."

Under the investment summary subheading, the Overview web page lists such data as the price, price per square foot, cap rate, percent leased, building size, land area, year built, and sale status of the property.

Under the highlights subheading, the Overview web page provides a narrative describing the principal selling points of the property.

Under the property description subheading, the Overview web page lists such data as the building size, number of floors, typical floor size, core factor, elevators, building class, land area, lot dimensions, building FAR, zoning, percent leased, available space, vacant space, number of tenants, average  
5 tenant size, parking ratio, open parking, covered parking, parking spaces, and parking rates. This section also provides an area for a description of special qualities of the property.

Under the assessment value subheading, the Overview web page lists such figures as land assessment, improvement assessment, total assessment,  
10 property tax rate, annual property tax, and property tax per square foot.

Under the location subheading, the Overview page lists the property's metro market, county, submarket, and zip code. This section also provides the map book and page on which to find the property, the block/lot of the property, and the parcel number. This section also provides an area for narrative  
15 comments about the location.

Under the building team subheading, the Overview page lists such information as the property manager, the developer, the architect, and a contact person in charge of the building information.

Under the transaction guidelines subheading, the Overview page lists  
20 such data as the sales status, marketing, final offers, contract signing, closing, active date, last update, and days on market.

Under the "presented by" subheading, the Overview page lists such information as the contact information for the broker or party responsible for listing the property.

25 As shown in Figure 54, under the Financial structure tab of the Property Details page, the information is broken down into four subheadings: financial overview, financial worksheet, income and expense, and existing financing. Under the financial overview subheading, the Financial page lists such data as the price, the price per square foot, the use, and the cap rate. Under the  
30 financial worksheet subheading, the Financial page lists such data as the down payment, the new loan, the net operating income, the loan payment, the pre-tax

cash flow, the price, cap rate, down payment, the interest rate, and the loan term along with a Calculate button. Under this subheading, a user can change a field in the worksheet and click the Calculate button to refresh the values in each of the fields. In this manner, the present invention enables a user to enter  
5 different financial criteria to determine the impact on price terms, loan terms, and cash flow.

Under the income and expense subheading, the Financial page lists such data as the gross income, other income, vacancy allowance, operating expenses, net operating income, loan payment, pre-tax cash flow, current asking rent per  
10 square foot, estimated average rent per square foot, taxes, insurance, utilities, wages, maintenance, management, miscellaneous reserves, total estimated expenses, and estimated expenses per square foot.

Under the existing financing subheading, the Financial page lists such information for the existing financing as lender, loan payment, due date, loan  
15 amount, interest rate, and loan term.

As shown in Figure 55, under the Tenant structured tab of the Property Details web page, the information is broken down into the subheadings: tenants tracked, tenant analysis, and tenant notes. Under the tenants tracked subheading, columns of information include suite, tenants, occupancy square  
20 foot, building percentage, industry, expires, and estimated rent. The suite column lists the suite a tenant occupies. The tenants column lists the name of the tenant. The occupancy square foot column lists the number of square feet the tenant occupies. The building percentage lists the percentage of space in the building that the tenant occupies. The industry column lists the type of  
25 business the tenant runs (e.g., health, media, and legal). The expires column lists the date the lease expires for the tenant. The estimated rent column lists the estimated rent the tenant is paying.

Each row under the tenants tracked subheading lists information for individual tenants. At the bottom of the list of tenants are totals for the entire  
30 building including tenant subtotals, unspecified tenants, vacant space, and total building. In this manner a user can conveniently determine the

percentage of space leased in the property, the percentage of unspecified tenants leasing space in the property, and the total space leased by the listed tenants.

Under the tenant analysis subheading, the Tenant web page lists the number of tenants in the building, the average tenant size, the average lease term, the estimated average rent per square foot, the total percent occupied, the estimated rollover in the next 12 months, the estimated rollover in the next 36 months, and the current asking rent per square foot. Alternatively, the tenant analysis subheading also links Dunn & Bradstreet™ ratings and information.

Under the tenant notes subheading, the Tenant web page lists any relevant narrative information about the tenants.

As shown in Figure 56, under the market structured tab of the Property Details web page, information is presented under three subheadings: size/vacancy, inventory/absorption, and price/rate. The information under the Market structured tab enables a user to compare the commercial viability of the property against similar properties in the same region and state. Under the size/vacancy subheading, the Market web page presents such data as the number of buildings, the total rentable space, the average building size, the average tenant size, the average building age, the percent leased, the number of available spaces, the total available space in square feet, the average available space in square feet, the vacant space in square feet, the average vacant space in square feet, the vacancy rate, the vacancy YAG, and the vacancy rate v. the YAG.

Under the inventory/absorption subheading, the Market web page lists such data as the total existing space in square feet, the square footage under construction, the square footage under renovation, the square footage proposed, the total rentable space in square feet, the 12 month gross absorption in square feet, and the 12 month net absorption in square feet.

Under the price/rate subheading, the Market web page lists such information as the average asking price per square foot, the average asking rent per square foot, the average asking rents YAG, and the rent charge v. YAG.

As shown in Figure 57, under the Comps structured tab of the Property Details web page, the present invention lists sale properties comparable to the subject property. The Comps web page includes summaries of each comparable sale property with a thumbnail picture 2302 and a button 2304 the user can click to obtain full details on the property. Each summary includes such information as the address of the property, the building class size, the building size, the number of floors, the year built, the buyer, the sale price, the price per square foot, the cap rate, and the sale date. In addition, the summary includes the distance the comparable sale property is located from the subject property. The Comps web page also lists a series of buttons 2306 at the top of the page corresponding to each category listed in the comparable sale property summaries. By pressing one of these buttons, a user can sort the comparable properties by the summary category corresponding to that button. Thus, for example, if a user wishes to sort the comparable sale properties by their distance from the subject property, the user would click the Distance button. To view a full-sized picture of the sale property, a user simply clicks on the thumbnail picture. To open the Properties Details page for a comparable sale property, the user simply clicks on the Full Details button for that property. In addition, in a further preformed embodiment, the comps structured tab includes a summary of the subject property to enable side-by-side comparisons with comparable properties by summary categories.

As shown in Figure 58, under the Map structure tab of the Property Details web page, the present invention provides maps, pinpointing the location of the subject property with an icon or other indicator. The Map web page also lists the address, the city, the county, and the submarket of the property. The maps give the user the ability to view the overall region in which the property is located, as well as the ability to zoom in and out on the map of the property.

Optionally, the map displays the locations of other for sale and comparable properties using icons or other indicators. Preferably, when the user drags the mouse pointer over an icon, the system displays a pop-up window providing information on the associated property, e.g., a photograph,

square footage, and price of the property. A user could then click through the pop-up window to access more information about the property.

While a user is exploring the above-described six structured tabs of the Property Details web page, the present invention provides a function menu area 2402 (as noted in Figure 58) including next, back, results, remove, print, new search, and a numerical listing of the property. The numerical listing corresponds to the item number of the property in the list of the search results. For example, a user may be viewing the property details for the 12th property listed on a search list of 39 properties, i.e., 12 of 39. The next function enables a user to view the next property listing in the search results table. Thus, for example, the user could click on the next function to view 13 of 39 after viewing 12 of 39. Similarly, the back function allows the user to move to a prior property listing. The results function allows the user to return to the table listing the search results. The remove function enables the user to remove a property from the search result table after viewing the property details and determining that the property is not desirable. The print function enables a user to print out the property details of a particular property. Finally, the new search function enables a user to return to the original six step search function to commence a new search. A further preferred feature provides on-screen and print reports such as a one-line summary, a multi-line summary with photos, a one page report, and an investment package (all data compiled in a paginated investment package format).

Returning to the website homepage (Figure 35), the third primary function under the For Sale structured tab is Add Listing. Upon clicking on the Add Listing button, the website presents the user with a Building Questionnaire web page, as shown in Figure 59. The Building Questionnaire page asks the user to select the type of property the user wishes to profile in the present invention. These types of properties include such categories as 'for sale' properties and 'for lease' properties. Within each of these property types, the user can choose a particular class of property, such as office or industrial.

Upon clicking a property and class type, the website presents a data entry page as shown in Figures 60 and 61. The data entry page prompts the user for basic building information. The user enters the building information in searchable data fields such as building address, city, state, zip code, county, building status, building type, total rentable building area, and number of stories.

As shown in Figure 62, after completing the basic building information, the Building Questionnaire prompts the user for suite level information including such information as floor, smallest square feet available, whether the total square feet is divisible or is not divisible, and the maximum contiguous square feet on a floor. The Questionnaire also asks for suite level information such as the space type (e.g., relet/direct, new and sublet), the space use (e.g., office, office/retail, retail, and medical), and occupancy (e.g., 120 days, to be determined, and vacant/off-market). From this page, a user can save the suite level information by clicking through the Save button. Upon saving, the website displays the page shown in Figure 63.

As shown in Figure 64, the next section of the office building questionnaire prompts the user for information concerning the listing contact such as the listing company, its telephone number, its agents, and its e-mail address.

As shown in Figure 65, the next section of the office building questionnaire prompts the user for information about the building team including such data fields as owner, architect, developer, management company, property manager, asset manager, and the various contact information for each of these entities.

As shown in Figure 66, the next section of the office building questionnaire prompts the user for information concerning marketing notes and amenities such as an atrium, auditorium, nearby commuter rail stations, dry cleaners, golf courses, and restaurants. A data entry field for marketing notes accepts free-style narratives on any special features that improve the value of the property and enhance its attractiveness to buyers.

As shown in Figure 67, the final section of the office building questionnaire prompts the user for information on major tenants in the subject property. This section includes data entry fields for such information as major tenant name and square feet.

5 Each of the above-described sections of the office building questionnaire presents web page buttons that allow the user to move back and forth between the sections of the questionnaire. On the final section for major tenants (Figure 67), the button Submit Questionnaire allows a user to submit the questionnaire and exit the Add Listing function of the present invention. After clicking the  
10 Submit Questionnaire button, the web page presents the user with a confirmation thank you page (Figure 68), thanking the user for submitting the office questionnaire and providing a tracking number for the user's records. The confirmation page also informs the user that a research analyst will be contacting the user shortly concerning the listing. According to the overall  
15 process of the present invention, once the research analyst contacts the listing entity and confirms the validity of the information, that data is entered into the database for access by the search function.

In a further preferred embodiment of the present invention, Figures 69-71 illustrate a system and method for providing real estate property information  
20 through a unique user interface. The system and method link display elements on a user interface to a real estate property database. Each display element represents a specific real estate property. Proximate to each element, the user interface includes a link (e.g., a Hypertext Markup Language (HTML) link) to a data entry in the database corresponding to the specific property. By selecting  
25 the display element (e.g., by clicking through it with a mouse), a user can access the corresponding information from the data entry in the database. Preferably, a user selects the display element by dragging a mouse pointer over the element, in which case the system automatically accesses the corresponding information and displays it in a pop-up window. Optionally, a user could also



select the display element using a touch screen, a voice activated response system, or any other type of pointing or selecting device.

The preferred formats of the user interface and display element include 1) a chart with textual listings of properties and 2) a map with icons or some other type of indicator to indicate properties within the particular geographic area covered by the map. Figure 69 illustrates the chart format in which the textual property listings are the display elements. In this example, the chart of search results contains eight property listings. The user has positioned the mouse pointer 691 over the listing “2 World Trade Center” and has activated the link to a data entry in the property database corresponding to the “2 World Trade Center.” In response, the system has displayed a pop-up window 692 containing a photograph of the property.

Figure 70 illustrates the map format in which the display elements are icons or other types of indicators. In this example, the icons are push-pins 700. The user has positioned the mouse pointer 701 proximate to a particular push-pin 702 and has activated the link to a data entry in the property database corresponding to the “5 World Trade Center.” In response, the system has displayed a pop-up window 703 containing a photograph, address, and price of the property.

Although these examples describe limited categories of information displayed in the pop-up window, the information could include any data available from the property database, including media such as text, images, audio, and video. In addition, as a further feature, after the display element is selected and the pop-up window is displayed, the user can click on the pop-up window to view a subsequent display containing more details about the property. As an example, the information included in the pop-up window and the subsequent display could include images of the property, audio content relating to the property, video of the property, and one or more textual details on the property, such as the address of the property, the building class size, the building size, the number of floors, the year built, the buyer, the sale price, the price per square foot, and the cap rate.

In this further preferred embodiment, a user can easily browse a chart of search results or a map of a particular geographic area to learn about for property for sale or for lease. Although Figures 69 and 70 present this embodiment of the present invention within the context of searching for property for sale or lease, the method of linking map indicators with geographically pertinent database information, and especially photographic or video information, is also applicable to other aspects of the present invention, e.g., in looking up or searching for comparable properties within a particular geographic area or for searching for property listings limited to specific criteria. As an example, Figure 71 illustrates using the map format of this embodiment of the present invention to search property listings of a particular broker, e.g., Coldwell Banker™.

Figure 71 also shows an additional aspect of this further preferred embodiment, in which the display elements carry an added information content. In this manner, the user can recognize a characteristic of the property even before activating the link associated with the display element. For example, as shown in Figure 71, different icons could signify different types of property, such as office, industrial, and retail, corresponding to icons 750, 751, and 752, respectively. Preferably, a legend 753 indicates to the user the meaning of each icon. A user interested in the particular listings of Coldwell Banker™, but only interested in purchasing retail space, would browse the map looking for icon 752 and would save time by dragging the mouse pointer only across that particular icon.

As one of ordinary skill in the art would appreciate, this aspect would work equally as well in the residential real estate context, in which different icons could, for example, represent condominiums, townhouses, and single family homes. In addition, icons or other indicators can represent different characteristics of a real estate property. For example, an indicator consisting of a certain number of dollar signs (e.g., “\$\$\$”) could show that a particular property is selling within a certain price range. A legend could provide the

particular price ranges to which each number of dollar signs corresponds. As another example, the icon could be the price of the property itself.

As suggested by Figures 69-71, the present invention provides various user-friendly graphical user interface systems and methods that are useful in displaying information retrieved from a database. The graphical user interface features of the present invention are described herein largely in the context of a database containing data concerning real estate information and/or other information of interest, including merchant information, tourist information, service provider information, and the like, which is correlated with geographic location information to allow data pertaining to a particular geographic location to be retrieved. It should be appreciated, however, that the user interface features described herein are useful in other contexts as well, and that the graphical user interface tools described herein have broad applicability.

One user interface feature is the ability to provide seemingly automatic retrieval of location-based information. Underlying this seemingly automatic retrieval of location-based information is a software enabled feature that allows the system to retrieve one set of data in response to a user query or predetermined system queries to the database, but to display only a subset of the data retrieved (a first portion), while storing the remaining data (a second portion) locally such as in a cache on the user's computer. The portion of the data that is displayed (the first portion) may be displayed in a text grid/spreadsheet/chart format. Optionally, the data (the first portion) may be displayed in a map format. A subset (but preferably not all) of the second portion of data (i.e., the data that is retrieved and stored, but not displayed) may then be automatically displayed in response to a user input, such as passing a pointing device icon over a portion of the text grid/spreadsheet/chart or over an icon on the map display. More specifically, the user input selects a portion of the displayed data (the first portion) and system then displays a subset of the second portion of data that is relevant to the selected portion of the first portion.

In the embodiment described herein, the data initially retrieved includes digital images, address information, and price information. The digital images are not initially displayed. The address and/or price information of the properties is initially displayed (in a text grid/spreadsheet/chart or map format) in the display of the first portion of the data retrieved. The second portion of data includes the digital images (if available) of all the properties retrieved, but each image is only displayed when the user "selects" a property as described above. The display is both uncluttered with extraneous data (because most of the second portion of data is NOT displayed) and user-friendly because the relevant subset of the second portion of data is displayed quickly without need for an additional database query.

The interface further includes a means for users to optionally retrieve even further information from the database by, for example, selecting (e.g., with a pointing device) text or an icon representing the desired information. It should be understood, however, that this graphical user interface feature is more widely applicable and, indeed, can be used in connection with any system in which there is an advantage to use of this display technique.

In accordance with another graphical user interface feature of the present invention, icons can be used to provide information about the properties shown in the text grid/spreadsheet/chart or map view of the user interface. In the map view, for instance, an icon's location on a map provides geographic location information. To provide further information, the icon may be in a shape or appearance that conveys information concerning the type of property, the cost of the property, or the identity of the broker listing the property. Further, the icon may be a small digital image (thumbnail image) of the property itself to convey further information.

The graphical user interface features described herein may be used in various combinations to customize functionality for different purposes to leverage the use of the database. For example, it is possible for the system operator to provide custom content for individual brokers by using predetermined queries to display only properties listed by a particular broker

and by displaying the information as an essentially seamless part of the broker's web site. The hierarchical display of information retrieved from the database can be used in other contexts where display of too much information is confusing or impractical, and resubmitting queries to get basic information is too cumbersome for users. Thus, the present invention also provides graphical user interface tools with broad applicability.

### **DETAILED DESCRIPTION OF DERIVATIVE EMBODIMENTS**

According to another aspect of the present invention, the system includes a method and system for listing and brokering a commodity and its financial derivatives. The method begins by identifying a plurality of characteristics of a particular commodity such as commercial real estate, and then entering those characteristics into a data processing system using a real-time clock. Once the commodity characteristics are entered, an exchange market for the commodity is established based upon a pre-selected set of the commodity's characteristics. After market price for each commodity listed in the database has been set, a class or classes of financial derivatives can be established. Then, with the establishment of derivative classes, a financial exchange market for those derivatives can be established.

The characteristics of the commodity to be listed, and subsequently traded, would preferably include: a geographic location; a lease term start date range and a lease term end date range; a building class (e.g., class A, B, C); a volume; and a cost. These characteristics generally describe commercial real estate, which is the broad class of commodity to be traded in the preferred embodiment of the present invention.

The entry of the commodity into the data processing system comprises several steps, these include: determining whether or not the commodity is being identified to the data processing system for the first time; and, storing the commodity characteristics in a commodity database if the entry is indeed a first time entry. If the entry is not a first time entry, then the status of the entry

with respect to being a candidate for purchase, sale, or trade would need to be determined.

The description or characteristics of the derivatives would be more general in context than that of the commodity itself and could be described by a series of broad categories. These categories might include: all commercial real estate available during a particular time period in a particular region; all commercial real estate of a certain class or cost; or, a combination of categories. The broad characteristics of the derivatives would comprise a Lease Space Equivalent Unit, or LSEU.

The LSEU comprises a: common descriptive link between varied commodity types; a time period (contract length) that runs from the date of the contract to the performance date of the commodity; and, a contract price. When entering the characteristics of the LSEU into the data processing system, the system determines whether the entry is being made for the first time. If so, then the characteristics are entered into the derivatives database and an identifier is issued. If the described derivative has been previously entered into the system, then the system determines the status of the derivative, with respect to whether or not that derivative is being exchanged, sold, or traded.

The system which employs the method of the subject invention comprises a number of elements that include: data processing means for accepting and storing the parameters of the commodity available for sale or exchange; data processing means for entering a description of the commodity desired for purchase or exchange; means for determining whether a match exists based upon a comparison of the commodity offered for sale and that requested for purchase or exchange; means for displaying the matched entry to a system operator; means for selecting the matched entry for purchase and/or exchange; means for determining a class of financial derivatives based upon a pre-determined set of characteristics resident in the commodity descriptions stored in the database; and means for selecting a class of derivatives for purchase and/or exchange.

The data processing means of the system, in turn, further comprises a system controller. The system controller is comprised of a number of elements, which include: a data processing system and programs for the management of data; data entry means for entering data into the data processing system; 5 memory means for storing data; and, communication means for communicating data between the system controller and a plurality of input and output points. The input and output points, for the input and output of data, comprise: one or more commodity input points; one or more commodity receiver points; one or more commodity brokerage points; and, one or more derivative exchange points.

10 The system for implementing this aspect of the present invention can be a known system, such as that shown in Figure 72 and Figure 73, applied to this new area and taking advantage of the unique unified data model of the present invention. To begin with, as shown in Figure 72, a high level flowchart of the overall system of the subject invention is designated as system 910. System 15 910 comprises a central hub in the form of a system controller 912 which can be a computer or a data processing system for processing data entered by the system operator. System controller 912 has a number of input and output points which allow nodes located at the input and output points to utilize this known method in a new context, i.e., commercial real estate.

20 Commodity input point 914 can exist as a single point or as multiple points. At commodity input point 914, the description of a commodity to be traded or purchased is entered into system 910 and resides within system controller 912. In a preferred embodiment of the invention, the commodity to be entered is commercial real estate. Entry of the commodity into system 910 25 must include enough information so as to identify the commodity in time, place, volume, and class. In an alternative embodiment of the subject invention, system controller 912 resides within each of the input and output points 914, 916, 918, and 920 so that the database of each is redundant to the others with respect to storing commodity data.

30 Commodity receiver point 916 can exist as a single point or as multiple points. At commodity receiver point 916, the description of a commodity that

has been purchased is confirmed to the purchaser by a confirmation transmitted from system controller 912. The confirmation will include an identification of the commodity purchased and a market value for the commodity that will be debited from an account of the purchaser and credited to an account of the carrier listing the commodity.

Commodity brokerage point 918 can exist as a single point or as multiple points. At commodity brokerage point 918, the trading of a commodity between a commodity owner and a secondary purchaser is entered into system 910. A secondary purchaser is defined as a purchaser who did not purchase the commodity to be traded directly from the carrier who introduced the commodity to the market. A request to purchase or trade a particular commodity is entered into system controller 912, which will attempt to seek a match between the commodity requested and commodities available for sale or trade. Alternatively, a listing of commodities available for sale or trade, within certain parameters, can be displayed prior so that a sale or trade request can be subsequently entered.

Derivative exchange point 920 can exist as a single point or as multiple points. At derivative exchange point 920, the trading of a derivative between a derivative owner and a derivative purchaser is entered into system 910. A derivative is defined as a financial instrument whose value is based on the perceived future collective value of a breadbasket of primary instruments. For example, a derivative could be based on the value of all commercial real estate leases of a specified class in a specified area for a period ending on a particular date some time in the future (i.e., 90, 120, 180 days forward). A request to purchase or trade a particular derivative is entered into system controller 912, which will attempt to seek a match between the derivative requested and derivatives available for sale or trade. Alternatively, a listing of derivatives available for sale or trade, within certain parameters, can be displayed prior so that a sale or trade request can be subsequently entered.

Turning to Figure 73, there is shown subsystem 925, which represents an input/output point that is porting data to system controller 912 shown in



Figure 72. Subsystem 925 comprises: microprocessor 930 for processing data entered by the system operator; microprocessor 930 operatively connected to monitor 932 where the system operator can view entries made to the system, matches available, or receive notification of a match; keyboard 934, which is used to make data entries to the system connected to microprocessor 930 by interface cable 938; and, modem 936, which can transmit data entries to, or receive data entries from, system controller 912, connected to microprocessor 930 by interface cable 942.

### **DESCRIPTION OF REPRESENTATIVE EMBODIMENT**

10 As described above, the system and method of the present invention provide the unified data model required to complete the development of a digital marketplace for the commercial real estate and related business community. The marketplace contains a wealth of information that can be used to provide an array of new services.

15 The currently preferred embodiment of the database of the present invention tracks over 15 billion square feet of U.S. commercial properties, and is one of the largest in existence. Over 700 researchers make daily updates to the database. This highly complex database is comprised of hundreds of data fields, tracking such categories as: location; site and zoning information; building characteristics; space availability; tax assessments; ownership; sales comparables; mortgage and deed information; for-sale information; income and expense histories; tenant names; lease expirations; contact information; and historical trends.

25 The database includes over 660,000 high-resolution digital images, including building photographs, aerial photographs, and floor plans. The database tracks approximately 900,000 tenants occupying office and industrial space in 54 U.S. markets.

30 The currently preferred embodiment also employs a sophisticated data collection organization, made up of a combination of researchers, management systems, computer and communications hardware, and software systems. To

begin with, over 700 researchers collect and analyze office and industrial real estate information through hundreds of thousands of phone calls, e-mails, internet updates, and faxes a year, in addition to e-mails, field inspections, news monitoring, and direct mail. Moreover, because of the importance  
5 commercial real estate professionals place on the data, they frequently take the initiative to report transactions to our researchers.

In addition, the system includes management and quality control systems. Both automated and non-automated controls are used to ensure the integrity of the data collection process. A large number of automated data  
10 quality tests check for potential errors including occupancy date conflicts, available square footage greater than building area, typical floor greater than land area, and expired leases. Non-automated quality control procedures include: calling our information sources on recently-updated properties to re-verify information; reviewing commercial real estate periodicals for  
15 transactions to cross-check our research; and performing field checks to ensure the correct canvassing of all building. Finally, one of the most important and effective quality control measures is feedback, garnered through regular client surveys taken from the commercial real estate professionals using the data of the present invention every day.

20 With regard to computer and communications hardware, the system maintains Windows NT servers in support of the database and a national internal frame relay network to allow remote researchers real-time access to the database. Full data back-ups are stored off-site.

The system uses client-server software to manage internal data collection.  
25 In addition, the system uses custom software systems for four primary functions: collection of building-specific data; tracking of commercial real estate companies and individuals; facilitating operations; and distribution of data.

The currently preferred embodiments of various services that can be provided with the unified data model will now be described in detail in the  
30 following paragraphs.

*CoStar Property:* This is a database of more than 15.3 billion feet of commercial space in the United States (mostly office and industrial), combining hundreds of data fields such as space availability, sales comps, properties for sale, ownership, photos, size, location, and characteristics. CoStar Property has fostered the development of the digital leasing marketplace. Clients use CoStar Property to research leasing options, analyze market conditions and competitive property positions, and produce multimedia client presentations. Members of the broader commercial real estate community, including non-CoStar Property subscribers, use CoStar Property extensively to market their properties. The subscriber can query CoStar Property with any combination of pertinent criteria, combining any of approximately one hundred data fields from categories such as building size, location, building characteristics, space, availability, ownership, or sales comparables. CoStar Property's search engine scans through hundreds of millions of square feet of space in a specified market in seconds to find all the properties meeting the search criteria. The user can select from over 50 customizable reports, presenting space availability, comparable sales, tenant activity, market statistics, photographs, and floor plans. The user can export and edit reports, photos and floor plans to help determine feasibility of a specific space. Clients also use CoStar Property to analyze market conditions by calculating current vacancy rates, absorption rates, or average rental rates.

*CoStar Tenant:* This is a database of some 900,000 tenants and their lease terms, including all building information, rents, lease terms, commissions and broker, tenant type or business, and other data. A key service feature is accurate lease expiration information. Clients use CoStar Tenant to: find information about particular tenants; identify and target the most likely tenants to lease space; identify all tenants in a particular building; understand trends and the underlying demand for commercial real estate; identify and target the tenants most likely to need representation for their real estate requirements; and identify and target the tenants most likely to buy a particular vendors' goods and services.

*COSTAR EXCHANGE™*: Allows property owners to list their properties for sale (and list extensive information about their properties) on the system operator's website at no cost. The generation of the product is from the company's database, incorporating much of the data in tenant and property but  
5 emphasizing the sale process as opposed to the listing process. Emphasized information will include tenant information, leasing information, and income and expense data. These listings allow sellers to reach a very large audience. There are currently over 38,000 buildings for sale in the CoStar/Comps database, representing in excess of some \$40 billion in aggregate value. The  
10 system is sold on a subscription basis into the existing client base and can also create on-off revenue. The exchange is a web-based marketplace to more efficiently and securely facilitate the buying and selling of commercial properties. Information is distributed through a secure web service, known as *COSTAR EXCHANGE™*. The site affords an efficient means for these sellers to  
15 reach a large universe of potential buyers. Potential buyers pay a subscription fee to access the system. Sellers of investment-grade properties have the additional option of selecting limited, secure distribution of their properties in order to address confidentiality requirements.

*CoStar Analytic*: This service is a web-based analytical tool based on the  
20 tenant and property databases. The tool is designed to allow users to analyze underlying trends in the covered markets. The types of inquiries that can be made are nearly limitless and are based on combinations of fields in the database. A typical inquiry might be to analyze leases rolling over in a submarket over a forward 36-month period to try to determine the leasing  
25 success of a potential new development. CoStar Advisory is sold both on a subscriber basis and on a per-search basis. Users can analyze the important changing trends in market metrics such as vacancy rates, tenant movements, supply, rental rates, tenant demographics, new construction, and absorption rates. This web-based analytic tool allows users to perform more sophisticated  
30 analyses of underlying market conditions and trends when making investment, leasing, purchase, sale, construction, and marketing decisions involving

commercial real estate. These tools provide strategic insight into the changing trends in vacancy rates, tenant movements, supply, new construction, absorption rates, and other important market metrics. The system also provides fee-based customized reports and advisory services.

5            *CoStar Comps*: This service is an enhanced web-based service providing confirmed commercial real estate sales information on properties that have recently sold. This web-based service enables clients to track and analyze sales comparables in a more timely and comprehensive manner than is currently possible. This service covers 47 national markets, including information on  
10 comparable sales such as sale prices, income and expenses, capitalization rates, loan data and other details. Clients can search the proprietary database of comparable sales information by multiple search parameters, including location, property type, square footage, price range, and number of units. Clients receive a report of all relevant properties in the database matching their  
15 search criteria, including photographs.

*CoStar Marketplace*: The participants in the CoStar marketplace directly influence approximately \$100 billion in leasing and sales each year. The system allows the system operator to provide digital marketing opportunities to reach this audience through premium high-exposure banner ads on CoStar and on  
20 the website. The Marketplace provides an online means for the commercial real estate and related business community to direct advertising to the appropriate decision-makers. The service benefits clients by providing increased distribution, higher visibility, and a more cost effective way to reach an audience targeted for their advertising material.

25            *CoStar News*: This service provides website, CoStar, and e-mail news dispatches that keep clients informed of late-breaking commercial real estate news such as deals signed, acquisitions, ground breakings and other features. Web banner ads are prominently displayed on the site, generating significant revenues. The system also allows the system operator to deliver a free e-mail  
30 system built around customized client profiles, with highly-targeted banner advertising attached.

The present invention thus provides a digital marketplace in which the members of the commercial real estate and related business community can continuously interact and can facilitate transactions by efficiently exchanging accurate and standardized information. In addition, the system operator is  
5 capable of providing the depth and breadth of the following services:

*Digital leasing marketplace* -- provides the information required to efficiently conduct commercial real estate leasing transactions, both between brokers and between owners and brokers. The system operator delivers this service through CoStar Property and CoStar Tenant, which benefit clients by  
10 providing a more comprehensive solution with much higher data quality, at substantially less time and cost than otherwise available.

*Digital selling marketplace:* This service provides the information required to efficiently and securely conduct commercial real estate buy and sell transactions. The system operator can deliver this service through CoStar and  
15 enhance this service through COSTAR EXCHANGE™. This service benefits clients by allowing purchasers to make more-informed investments and sellers to maximize realized property values.

*On-line decision support services:* These services allows members of the community to perform analysis of underlying market conditions and trends  
20 when making investment, leasing, purchase, sale, build, and marketing decisions involving commercial real estate. The system operator can deliver these services through CoStar Analytic and CoStar Comps. These services benefit clients by providing powerful, flexible, time-efficient, and accurate analytic capabilities.

*Tenant information services:* These services enable members of the commercial real estate and related business community to identify and market  
25 to the tenants who are the most likely prospects for their goods and services. The system operator delivers these services primarily through CoStar Tenant. These services benefit clients by more precisely identifying and capturing viable  
30 prospects at a lower cost.

*On-line property marketing:* This service provides a targeted on-line means for the commercial real estate and related business community to direct advertising to the appropriate decision-makers. The system operator can deliver this service through CoStar and via the website. This service benefits  
5 clients by providing them increased distribution, higher visibility, and a more cost-effective way to reach their targeted audience than otherwise available.

*On-line industry news:* This service allows members of the commercial real estate and related business community to remain current with developments in the industry. The system operator delivers these services through CoStar,  
10 [www.costargroup.com](http://www.costargroup.com), which benefit clients by providing more timely and in-depth news.

The increased availability of the services from a web-based platform will allow the commercial real estate and related business community real-time access to the CoStar marketplace data and provide the opportunity for  
15 increased interaction among community members. This will lead to the development of a more efficient commercial real estate marketplace.

The preferred embodiment of the present invention relates to a system and method for collecting, standardizing, and distributing information  
20 pertaining to commercial real estate. The information falls into three conceptual camps: Information about the leasing of commercial space (which itself is divided into tenant data and space-for-lease data); Information about the listing and sale of buildings; and Market research.

The commercial real estate brokerage community supplies the first two types of information. As a broker in a local market gets a listing, the space for  
25 sale or rent is listed in the CoStar system and the information enters the database. For example, if a user wanted 10,000 feet in downtown Los Angeles, the CoStar system would allow the tenant representative broker to search suitable locations in that market based on up to 100 data fields. Listing brokers that represent the property owner would have provided the actual data.

30 The present invention achieves significant network effect benefits to the extent nearly every major brokerage company in the United States submits its

data and uses the system. If a large brokerage does not use the system, its clients do not get the best and widest market for lease or sale transactions. Imagine a stockbroker that maintains an internal market in a select group of stocks, but the market is highly illiquid and inactive. Meanwhile, all the other  
5 brokers share information and liquidity in a centralized digital exchange. If a customer happens to want to sell a particular stock and no one in the small broker's office is familiar with what is going on with that stock, the customer would be out of luck. This is the conundrum the real estate brokers face, as network effects cause the system to become even more important.

10 In all cases, the information is scrubbed, verified, and systemized to conform to the database so it is digitally accessible. In the case of market data, some is digitally culled from the 1.5 terabytes of historical real estate data that already exists in CoStar's computers, supplemented by on-going field research. Field researchers using mobile vehicles and other tools compile digital images,  
15 location information, and site-specific data, both verifying data already entered by the brokerage community and completing the market research function. The system standardizes information across source and market.

In describing representative embodiments of the present invention, the  
20 specification may have presented the method and/or process of the present invention as a particular sequence of steps. However, to the extent that the method or process does not rely on the particular order of steps set forth herein, the method or process should not be limited to the particular sequence of steps described. As one of ordinary skill in the art would appreciate, other sequences  
25 of steps may be possible. Therefore, the particular order of the steps set forth in the specification should not be construed as limitations on the claims. In addition, the claims directed to the method and/or process of the present invention should not be limited to the performance of their steps in the order  
30 of the process in the specification. Otherwise, one skilled in the art can readily



appreciate that the sequences may be varied and still remain within the spirit and scope of the present invention.

5 The foregoing disclosure of embodiments of the present invention has been presented for purposes of illustration and description. It is not intended to be exhaustive or to limit the invention to the precise forms disclosed. Many variations and modifications of the embodiments described herein will be obvious to one of ordinary skill in the art in light of the above disclosure. The scope of the invention is to be defined only by the claims, and by their equivalents.

**WHAT IS CLAIMED IS:**

1. In a system that includes a system operator, a plurality of information providers, and a plurality of information customers, a method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information, the method comprising the steps of:

making the information provider's specified information available through a secured website on the Internet;

obtaining from the information provider a designation of a first subset of the information customers that are authorized to receive access to the specified information on the website; and

distributing to each one of the first subset of the information customers that are authorized to receive access to the specified information an ID that can be used to access the specified information.

2. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 1, further comprising the steps of:

allowing a second subset of potential customers to query a searchable database containing a plurality of descriptions of information;

indicating to the second subset of potential customers that the specified information exists without revealing the specified information;

if one or more of the second subset of potential customers are interested in obtaining access to the specified information, allowing an interested potential customer to communicate a request for access directed to the system operator;

the system operator forwarding the request for access and information concerning the interested potential customer requesting access to the information provider in response to a request for access;

allowing the information provider to make a decision to grant or deny the request for access and to communicate the decision to the system operator, whereupon in response to a deny access decision, the interested potential customer is notified of the deny decision without learning the specified information, and whereupon in response to a grant access decision, the system operator grants the interested potential customer access to the specified information.

3. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 1, wherein the system is used to facilitate exchange of information pertaining to commercial real estate available for sale, the information providers are owners or owner representatives that provide information concerning the availability of their respective properties for sale, and the information customers are potential buyers or representatives of potential buyers.

4. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 1, further comprising the step of requiring execution of a non-disclosure agreement by each one of the first subset of the information customers that are authorized before each one of the first subset of the information customers that are authorized can access the specified information.

5. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 4, wherein the execution of the non-disclosure agreement comprises clicking through an agreement posted on the Internet.

6. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 2, further comprising the step of requiring the interested potential customer to execute a non-disclosure agreement prior to allowing the interested potential customer access to the specified information.

7. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 6, wherein the interested potential customer executes the non-disclosure agreement by clicking through an agreement posted on the Internet.

8. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 2, wherein a profile of a member of the second subset of potential customers is obtained by the system operator and transmitted to the information provider in response to a request for access.

9. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 8, wherein before a profile of a member of the second subset of potential customers is transmitted to the information provider in response to a request for access, the system operator authenticates the profile.

10. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 2, wherein in response to a request for access, the system operator obtains a profile of the interested potential customer, authenticates the profile, and transmits the profile to the information provider in conjunction with the request for access.

11. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 2, wherein the system operator forwards the request for access to the information provider in response to a request for access, and requests a response from the information provider in real time through the Internet or through wireless data transmission.

12. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 11, wherein the system operator forwards a profile of the interested potential customer with the request for access.

13. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 2, wherein the system is used to facilitate exchange of information pertaining to commercial real estate available for sale, the information providers are owners or owner representatives that provide information concerning the availability of their respective properties for sale, and the information customers are potential buyers or representatives of potential buyers.

14. In a system that includes a system operator, a plurality of information providers, and a plurality of information customers, a method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information, the method comprising the steps of:

making the information provider's specified information available through a secured website on the Internet;

allowing potential customers to query a searchable database containing a plurality of descriptions of information;

indicating to the potential customers that the specified information exists without revealing the specified information;

if one or more of the potential customers are interested in obtaining access to the specified information, allowing an interested potential customer to communicate a request for access directed to the system operator;

the system operator forwarding the request for access and information concerning the interested potential customer requesting access to the information provider in response to a request for access;

allowing the information provider to make a decision to grant or deny the request for access and to communicate the decision to the system operator, whereupon in response to a deny access decision, the interested potential customer is notified of the deny decision without learning the specified information, and whereupon in response to a grant access decision, the system operator grants the interested potential customer access to the specified information.

15. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 14, wherein the system is used to facilitate exchange of information pertaining to commercial real estate available for sale, the information providers are owners or owner representatives that provide information concerning the availability of their respective properties for sale, and the information customers are potential buyers or representatives of potential buyers.

16. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 14, whereupon in response to a grant access decision, the method further comprises the step of requiring execution of a non-disclosure agreement by the interested potential customer before the system operator grants the interested potential customer access to the specified information.

17. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 16, wherein the execution of the non-disclosure agreement comprises clicking through an agreement posted on the Internet.

18. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 14, wherein the system is used to facilitate exchange of information pertaining to residential real estate available for sale, the information providers are owners or owner representatives that provide information concerning the availability of their respective properties for sale, and the information customers are potential buyers or representatives of potential buyers.

19. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 14, wherein the information concerning the interested potential customer requesting access is a profile of the interested potential customer.

20. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 19, wherein the system operator authenticates the profile of the interested potential customer before forwarding the profile to the information provider.

21. The method for allowing the information providers to both distribute specified information through the Internet and control dissemination of information of claim 14, wherein the system operator forwards the request for access to the information provider in response to a request for access, and

requests a response from the information provider in real time through the Internet or through wireless data transmission.

22. A system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user, the system comprising:

user equipment sets, each user equipment set comprising a display and a location determining device for generating data pertaining to the user's location and for transmitting the data pertaining to the user's location to a remote computer automatically;

a computer, the computer equipped for wireless communication with geographically remote users that are equipped with the equipment sets so as to send data to the equipment sets and receive data from the equipment sets including the data pertaining to the user's location; and

a database in communication with the computer, the database storing information that includes information identifying a location of a property;

whereby, in response to receipt of the data pertaining to a user's location, the computer automatically retrieves information pertaining to the user's location and transmits the same to the user's equipment set for display on the display.

23. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, wherein the each user equipment set further comprises a data input device for allowing the user to input data, wherein information is displayed on the display in a way that prompts the user to input missing information using the data input device.



24. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, wherein the display is a color display adapted for displaying photographic images.

25. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, whereby in response to receipt of the data pertaining to the user's location, the computer automatically retrieves information describing commercial real estate near the user's location and transmits the same to the user's equipment set for display on the display.

26. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, whereby in response to receipt of the data pertaining to a user's location, the computer automatically retrieves information describing residential real estate near the user's location and transmits the same to the user's equipment set for display on the display.

27. The system for correlating information stored in a remote database with a user's location and retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, whereby in response to receipt of data pertaining to a user's location, the computer automatically retrieves information regarding at least one of commercial enterprises and landmarks near the user's location and transmits the same to the user's equipment.

28. The system for correlating information stored in a remote database with a user's location and retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, wherein the user's equipment set includes audio capabilities, and the information pertaining to the user's location includes audio data.

29. The system for correlating information stored in a remote database with a user's location and retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, the computer transmits the information pertaining to the user's location to the user's equipment set for color display on the display.

30. The system for correlating information stored in a remote database with a user's location and retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, wherein the information pertaining to the user's location further includes information on commercial enterprises located near the user's location, the information on commercial enterprises including information on at least one of the products, goods, and services provided by the commercial enterprises, whereby in response to receipt of the data pertaining to a user's location, the computer automatically retrieves the information on at least one of products, goods, and services provided by commercial enterprises near the user's location and transmits the same to the user's equipment set.

31. The system for correlating information stored in a remote database with a user's location and retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, wherein the computer automatically retrieves

information describing real estate near the user's location and the display shows a pop-up window including the information describing the real estate.

32. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 22, wherein the information stored in the database includes at least one of the following:

- square footage available for lease;
- whether a property is available for sale;
- property address;
- contact information; and
- price.

33. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 32, wherein the information stored in the database also includes at least one of the following:

- a digital image of the commercial real estate;
- square footage data representing a square footage of the commercial real estate;
- data characterizing the selected use of the commercial real estate;
- rental price of the commercial real estate;
- sale price of the commercial real estate;
- data about the tenant in the commercial real estate;
- a real estate submarket identification;
- sales comparable information;
- lender information;
- a grade indicator of the commercial real estate, the grade indicator having an alpha numerical representation and being a function of a

classification system of the commercial real estate that is consistent with accepted standards and providing a representation of the quality of the real estate;

a classification of the commercial real estate based upon at least one of the following: a building grade, an age of the building, and an extrapolation of comparable buildings; and

information pertaining to the submarket including at least one of (i) rents, (ii) vacancy, and (iii) absorption rates for each of the submarket and nearby submarkets, and (iv) other indicators of submarket and location attractiveness.

34. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 32, whereby in response to receipt of the data pertaining to the user's location, the computer automatically retrieves information describing the commercial real estate near the user's location and transmits the same to the user's equipment set for display on the display.

35. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 32, whereby in response to receipt of the data pertaining to a user's location, the computer automatically retrieves information describing the residential real estate near the user's location and transmits the same to the user's equipment set for display on the display.

36. A commercial real estate information exchange and market comprising:  
a database for storing information about commercial real estate, the database comprising data records, including information pertaining to lease

information, sale information, comparable sales information, and tenant information; and

computers and communication equipment for allowing a plurality of users to query the database, add data to the database, and retrieve the information from the database.

37. The commercial real estate information exchange and market of claim 36, wherein the database further includes at least one of:

data about a tenant in the commercial real estate;

building-specific information including data representing an age of the commercial real estate, and data representing financial obligations and tenancy status of the tenant in the commercial real estate;

square footage data representing a square footage of the commercial real estate;

data characterizing a selected use of the commercial real estate;

cost data including a rental price of the commercial real estate;

a real estate submarket identification;

a classification of the commercial real estate based upon at least one of a building grade, an age of the building, and an extrapolation of comparable buildings; and

information pertaining to a submarket including rent data, vacancy data, and absorption rate data.

38. The commercial real estate information exchange and market of claim 36, wherein the data records include market analytic information.

39. A method for storing and automatically displaying descriptions and visual images of commercial or residential real estate on a display of a user, comprising the steps of:

generating a plurality of digitized video images of real estate, each digitized video image depicting a real estate;

storing data records concerning the real estate including the digitized video images, textual information concerning the real estate, and information identifying the location of the real estate;

determining a location of the user;

retrieving data records corresponding to the user's location; and

displaying on the display the digitized video images and textual information from the data records corresponding to the user's location.

40. A method for listing and brokering commercial real estate comprising the steps of:

identifying a plurality of characteristics of the commercial real estate and entering the plurality of characteristics into a data processing system to establish a first exchange market for the commercial real estate based upon the plurality of characteristics;

identifying a market value for the commercial real estate and listing the market value on the first exchange market;

determining a class of derivatives based upon a pre-selected subset of the plurality of characteristics; and

establishing a second exchange market in respect of the derivatives.

41. The method of claim 40, wherein the first exchange market and the second exchange market are co-located within the data processing system.

42. The method of claim 40, wherein the plurality of characteristics comprises:

(a) a geographic location;

(b) a start date and a finish date;

(c) a size;

(d) a class of building; and

(e) a cost.

43. A method for establishing a unified group of correlated databases that provides real estate data to facilitate a real estate transaction, wherein each database of the unified group is a discrete data module, the method comprising:

(a) associating real estate data entries of a first database of the unified group with corresponding real estate data entries of the remaining databases of the unified group;

(b) collecting the real estate data from real estate industry data sources;

(c) recording the real estate data in the first database of the unified group;

(d) determining an effect of the recorded real estate data on the remaining databases of the unified group;

(e) reconciling remaining real estate data in the remaining databases based on the effect; and

(f) distributing the recorded real estate data and the reconciled real estate data to real estate industry professionals and to real estate industry customers.

44. The method of claim 43, wherein the real estate data includes property information and tenant information, and the unified group of correlated databases comprises a property information database, and a tenant information database.

45. The method of claim 44, wherein the real estate data further includes comparable property information, assessment information, and market analytics information, and the unified group of correlated databases comprises a comparable property information database, an assessment information database, and a market analytics information database.

46. The method of claim 43, wherein the real estate industry data sources include at least one of property managers, proprietary databases, Internet sources, site inspections, building owners, brokerage firms, real estate investment trust filings, tenant canvassing, public records, and comparable property databases, and wherein the step of collecting the real estate data comprises:

(i) communicating with at least one of the property managers, the building owners, and the brokerage firms using a medium selected from the group consisting of mail, electronic mail, telephone, and facsimile, if the real estate industry data sources include at least one of the property managers, the building owners, and the brokerage firms;

(ii) searching and extracting data from at least one of the proprietary databases, the Internet sources, and the real estate investment trust filings, if the real estate industry data sources include at least one of the proprietary databases, the Internet sources, and the real estate investment trust filings;

(iii) recording observed data from at least one of the site inspections and the tenant canvassing, if the real estate industry data sources include at least one of the site inspections and the tenant canvassing; and

(iv) extracting data from at least one of the public records and the comparable property databases, if the real estate industry data sources include at least one of the public records and the comparable property databases.

47. The method of claim 43, wherein the step of collecting the real estate data comprises:

(i) receiving web-based input from the real estate industry professionals and the real estate industry customers; and

(ii) receiving communications from the real estate industry professionals and the real estate industry customers by a medium selected from the group consisting of mail, electronic mail, telephone, and facsimile.



48. The method of claim 47, wherein the step of collecting the real estate data further comprises:

(iii) gathering information with a mobile data acquisition vehicle.

49. The method of claim 43, wherein the step of reconciling the remaining real estate data comprises confirming that the real estate data entries and the corresponding real estate data entries that were associated in step (a) are internally consistent.

50. The method of claim 43, wherein the step of distributing comprises providing a web-based interface in communication with the unified group of correlated databases.

51. The method of claim 50, wherein the step of distributing further comprises providing communication between parties to a transaction, and providing transactional services in support of a transaction.

52. The method of claim 43, wherein the step of distributing comprises:

(i) accepting a property search query from a user; and

(ii) running the property search query in the unified group of correlated databases and returning property search results to the user.

53. The method of claim 52, wherein the step of distributing further comprises:

(iii) adding properties to the property search results as directed by the user without running another search query;

(iv) removing properties from the property search results as directed by the user without running another search query; and

(v) running negative search queries in the property search results as directed by the user to remove properties from the property search results.

54. The method of claim 52, wherein the step of distributing further comprises accepting a second property search query from the user, running the second property search query on the property search results, and returning a second set of property search results to the user.

55. The method of claim 52, wherein the property search results provide data from at least one of leasing history of a specific building, history of a market in a particular geographic area, and history of the specific building relative to the market.

56. The method of claim 52, further comprising:

- (iii) saving the property search query as directed by the user;
- (vi) running the saved property search query at a periodic interval; and
- (vii) notifying the user of new properties that satisfy the property search query.

57. The method of claim 56, wherein the saved property search query has at least one field that relates to market conditions and at least one new property satisfies the property search query because of a change in the market conditions.

58. The method of claim 56, wherein steps (iii), (vi), and (vii) repeat for different users resulting in a plurality of saved searches, and wherein the method further comprises calculating an amount of saved searches of the plurality of saved searches that will be satisfied by entry of a new property listing, and reporting the amount to an owner or owner representative so that the owner or owner representative can maximize demand for the new property listing.

59. The method of claim 58, wherein the owner or owner representative maximizes demand for the new property listing by setting an optimum price.

60. The method of claim 58, wherein the owner or owner representative maximizes demand for the new property listing by setting an optimum building grade.

61. The method of claim 51, further comprising providing a derivatives marketplace in which to define, value, and exchange real estate commodities.

62. The method of claim 61, wherein the commodities are real estate cost futures.

63. The method of claim 43, wherein the step of distributing real estate data comprises disseminating location-sensitive information to a mobile information receiving device, wherein the mobile information receiving device determines its location and the unified group of correlated databases receives the location of the mobile information receiving device and transmits the location-sensitive information to the mobile information receiving device.

64. The method of claim 43, wherein the step of distributing real estate data comprises:

- (i) displaying a user interface;
- (ii) displaying a display element on the user interface to indicate a property for which information is recorded in the unified group of correlated databases;
- (iii) providing a link to the information on the user interface proximate to the display element;
- (iv) allowing a user to select the display element; and
- (v) in response to the selection, retrieving and displaying the information.

65. The method of claim 64, wherein the user selects the display element by dragging a pointer proximate to the display element, and wherein the information is automatically displayed.

66. The method of claim 64, wherein the user interface is one of a chart and a map, and the display element is one of a text listing and an indicator.

67. The method of claim 64, wherein the information includes at least one of a photograph of the property, an address of the property, a building class size of the property, a building size of the property, a number of floors of the property, a year in which the property was built, a buyer of the property, a sale price of the property, a price per square foot of the property, and a cap rate of the property.

68. The method of claim 64, wherein allowing the user to select the indicator comprises providing one of a click-through button, a touch screen, and a voice activated response system.

69. A system for collecting, distributing, and using real estate data comprising:

- (a) data sources that gather and generate the real estate data;
- (b) data mining applications in communication with the data sources, wherein the data mining applications receive and organize the real estate data into separate interrelated modules, and wherein the data mining applications evaluate the real estate data and reconcile the real estate data among the interrelated modules;
- (c) a contact management system in communication with the data sources and the data mining applications, wherein the contact management system directs data mining applications to conduct continuous pollings of the data sources to update the real estate data;

(d) a core data warehouse in communication with the data mining applications, wherein the core data warehouse receives and stores the reconciled and updated real estate data from the data mining applications;

(e) database processes in communication with the core data warehouse, wherein the database processes access the reconciled and updated real estate data from the core data warehouse and create database sets; and

(f) network integration applications in communication with the database processes, wherein the network integration applications manipulate the database sets in response to commands from a user and present results of the manipulation to the user.

70. The system of claim 69, wherein the network integration applications comprise at least one of a look up property application, a search database application, and an add listing application.

71. The system of claim 70, wherein the search database application accepts property search queries from the user, runs the property search queries, and returns property search results to the user.

72. The system of claim 71, wherein the search database application adds properties to the property search results as directed by the user without running another search query, removes properties from the property search results as directed by the user without running another search query, and runs negative search queries as directed by the user to remove properties from the property search results.

73. The system of claim 69, wherein the data sources include at least one of property managers, proprietary databases, Internet sources, site inspections, building owners, brokerage firms, real estate investment trust filings, tenant canvassing, public records, and comparable property databases.

74. The system of claim 69, wherein the data mining applications include at least one of a property information database, a tenant information database, an assessment information database, a comparable property information database, and a market analytics information database.

75. The system of claim 69, further comprising a mobile information collection device that provides functions of the data sources and the network integration applications, the mobile information collection device comprising:

- (a) a global positioning system that determines a location of the mobile information collection device;
- (b) an output device in communication with the database processes and the global positioning system, wherein the output device reads the location provided by the global positioning system, and retrieves and displays the database sets corresponding to the location; and
- (c) a data input device that receives changes to the database sets corresponding to the location and transmits the changes to the data mining applications.

76. A method for securely facilitating buying and selling of real estate properties comprising the steps of:

- (a) maintaining a unified group of interrelated databases accessible through a global information network;
- (b) accepting a property listing from an owner or owner representative and recording the property listing in the unified group;
- (c) providing confidentiality agreements to preapproved buyers or buyer representatives named by the owner or owner representative, wherein the confidentiality agreements require that the property listing remain confidential in return for viewing the property listing; and
- (d) providing access to the property listing for buyers or buyer representatives that agree to the confidentiality agreement.

77. The method of claim 76, wherein, to access the property listing, the buyer or buyer representative is provided with an electronic identification key that generates a variable password at a predetermined frequency.

78. The method of claim 76, wherein step (b) further comprises determining if the owner or owner representative is fraudulent by posting the property listing for viewing by a true owner representative.

79. The method of claim 76, further comprising the steps of:

(e) indicating to an unapproved buyer or buyer representative that the property listing exists;

(f) accepting from the unapproved buyer or buyer representative a request to view the property listing;

(g) forwarding the request to the owner or owner representative for approval;

(h) if the owner or owner representative approves the request, requiring the unapproved buyer or buyer representative to agree to a confidentiality agreement requiring that the property listing remain confidential in return for viewing the property listing; and

(i) if the unapproved buyer or buyer representative agrees to the confidentiality agreement, providing access to the property listing for the unapproved buyer or buyer representative.

80. The method of claim 79, wherein the unapproved buyer or buyer representative subscribes to an access service that indicates the existence of property listings in the unified group of interrelated databases.

81. The method of claim 79, wherein the buyer or buyer representative agrees to the confidentiality agreement by clicking through an agreement posted on the Internet.

82. The method of claim 79, wherein forwarding the request further comprises forwarding a profile of the buyer or buyer representative to the owner or owner representative.
83. The method of claim 82, wherein forwarding the request further comprises authenticating the profile of the buyer or buyer representative.
84. The method of claim 79, wherein accepting a request to view the property listing further comprises obtaining a profile of the buyer or buyer representative, authenticating the profile, and transmitting the profile to the owner or owner representative.
85. The method of claim 79, wherein forwarding the request to the owner or owner representative comprises requesting a response from the information provider in real time through the Internet or through wireless data transmission.
86. A method for securely facilitating buying and selling of real estate properties comprising the steps of:
- (a) maintaining a unified group of interrelated databases accessible through a global information network;
  - (b) accepting a property listing from an owner or owner representative and recording the property listing in the unified group;
  - (c) indicating to an unapproved buyer or buyer representative that the property listing exists;
  - (d) accepting from the unapproved buyer or buyer representative a request to view the property listing;
  - (e) forwarding the request to the owner or owner representative for approval;
  - (f) if the owner or owner representative approves the request, requiring the unapproved buyer or buyer representative to agree to a



confidentiality agreement requiring that the property listing remain confidential in return for viewing the property listing; and

(g) if the unapproved buyer or buyer representative agrees to the confidentiality agreement, providing access to the property listing for the unapproved buyer or buyer representative.

87. The method of claim 86, wherein, to access the property listing, the unapproved buyer or buyer representative is provided with an electronic identification key that generates a variable password at a predetermined frequency.

88. The method of claim 86, wherein step (b) further comprises determining if the owner or owner representative is fraudulent by posting the property listing for viewing by a true owner representative.

89. The method of claim 86, wherein the unapproved buyer or buyer representative subscribes to an access service that indicates the existence of property listings in the unified group of interrelated databases.

90. The method of claim 86, wherein the unapproved buyer or buyer representative agrees to the confidentiality agreement by clicking through an agreement posted on the Internet.

91. The method of claim 86, wherein forwarding the request further comprises forwarding a profile of the unapproved buyer or buyer representative to the owner or owner representative.

92. The method of claim 91, wherein forwarding the request further comprises authenticating the profile of the unapproved buyer or buyer representative.

93. The method of claim 86, wherein forwarding the request to the owner or owner representative comprises requesting a response from the information provider in real time through the Internet or through wireless data transmission.

94. A method for underwriting loans for real estate property comprising the steps of:

(a) establishing a unified group of correlated databases that provides data to facilitate a real estate transaction, wherein each database is a discrete module of real estate data;

(b) providing quotes on individual loan programs in response to customer requests, wherein the quotes are based on property data in the unified group;

(c) providing soft loan quotes based on property data in the unified group; and

(d) providing pre-approved loan quotes to owners of particular properties based on real estate data for the particular properties and market information in the unified group.

95. The method of claim 94, wherein the step of providing pre-approved loan quotes comprises examining a financial profile of an owner, examining a property owned by the owner, evaluating the property to determine value and market analytics, and formulating a pre-approved credit line for the owner based on the property.

96. A method for listing and brokering real estate commodities and financial derivatives of the real estate commodities comprising the steps of:

(a) identifying characteristics of the real estate commodities;

(b) entering the characteristics into a data processing system using a real-time clock;

- (c) establishing an exchange market for the real estate commodities based on a pre-selected set of the characteristics;
- (d) setting a market price for the real estate commodities; and
- (e) establishing classes of the financial derivatives.

97. The method of claim 96, wherein the characteristics are selected from the group consisting of geographic location, lease term start date range, lease term end date range, building class, volume, and cost.

98. The method of claim 96, wherein the step of entering the characteristics into a data processing system comprises the steps of:

- (i) determining whether or not a commodity is being identified to the data processing system for a first time;

- (ii) storing the characteristics in a commodity database if the commodity is being identified to the data processing system for the first time; and

- (iii) determining a status of the commodity with respect to being a candidate for purchase, sale, or trade, if the commodity is not being identified to the data processing system for the first time.

99. The method of claim 96, wherein the classes of financial derivatives are selected from the group consisting of all commercial real estate available during a particular time period in a particular region, all commercial real estate of a certain class, all commercial real estate of a certain cost, a lease space equivalent use, and combinations thereof.

100. The method of claim 99, wherein the lease space equivalent use comprises a common descriptive link between varied commodity types, a time period that runs from a date of a contract to a performance date of the commodity, and a contract price.

101. A system for listing and brokering real estate commodities and financial derivatives of the real estate commodities comprising:

- (a) a data processing means for accepting and storing parameters of an available commodity available for sale or exchange;
- (b) data processing means for entering a description of a desired commodity desired for purchase or exchange;
- (c) means for determining that a match exists between the available commodity and the desired commodity;
- (d) means for displaying the match to a system operator;
- (e) means for selecting the match for purchase, exchange, or purchase and exchange;
- (f) means for determining a class of financial derivatives based on a pre-determined set of characteristics resident in commodity descriptions stored in a database; and
- (g) means for selecting a class of derivatives for purchase, exchange, or purchase and exchange.

102. The system of claim 101, wherein the data processing means comprises a system controller comprising:

- (i) a data processing system;
- (ii) a data management program;
- (iii) data entry means for entering data into the data processing system;
- (iv) memory means for storing memory; and
- (v) communication means for communicating data between the system controller and a plurality of input and output points.

103. The system of claim 102, wherein the plurality of input and output points comprise:

- (i) one or more commodity input points;
- (ii) one or more commodity receiver points;

- (iii) one or more commodity brokerage points; and
- (iv) one or more derivative exchange points.

104. A method for shopping for real estate and completing real estate transactions comprising the steps of:

- (a) providing a mobile information transmitting and receiving device that is in communication with a database containing real estate data;
- (b) determining a location of the mobile information transmitting and receiving device using a global positioning system;
- (c) downloading from the database to the mobile information transmitting and receiving device real estate data corresponding to the location; and
- (d) displaying on the mobile information transmitting and receiving device summary information corresponding to a property listed in the real estate data to which the mobile information transmitting and receiving device is nearest.

105. The method of claim 104, further comprising the steps of:

- (e) providing communication between a buyer or buyer representative and a seller or seller representative of the property for approval by the seller or seller representative for the prospective buyer to view details of the property;
- (f) displaying details on the mobile information transmitting and receiving device, if approved by the seller or seller representative; and
- (g) communicating an offer from the buyer or buyer representative to the seller or seller representative using the mobile information transmitting and receiving device.

106. The method of claim 105, further comprising the step of completing an electronic agreement to transfer title of the property if the offer is accepted by the seller or seller representative.

107. A system for use in information exchange between a system operator, a plurality of information providers, and a plurality of information customers, to allow the information providers to both distribute specified information through the Internet and control dissemination of information, the system comprising:

(a) means for making the information provider's specified information available through a secure website on the Internet;

(b) means for obtaining from the information provider a designation of a first subset of the information customers that are authorized to receive access to the specified information on the website; and

(c) means for distributing to each one of the first subset of the information customers that are authorized to receive access to the specified information an ID that can be used to access the specified information.

108. The system according to claim 107, further comprising:

(d) means for providing a description of the specified information in a searchable database containing a plurality of descriptions of information;

(e) means for allowing a second subset of customers to query the searchable database and retrieve information sufficient to show the existence of information responsive to the query without revealing all of the information;

(f) means for allowing one or more of the second subset of customers that are interested in obtaining access to the complete information to communicate their interest in access to the information responsive to the query;

(g) means for forwarding the request for access and information concerning the interested customer requesting access to the information provider in response to a request for access; and

(h) means for allowing the information provider to make a decision to grant or deny the request for access to the information responsive to the query, whereupon in response to a deny access decision, the interested customer is notified of the deny decision without learning the identity of the information

provider, and whereupon in response to a grant access decision, the interested customer receives access to the specified information.

109. The system according to claim 108, wherein the means for allowing one or more of the second subset of customers that are interested in obtaining access to the complete information to communicate their interest in access to the information responsive to the query, includes:

means for allowing the interested customer to send a request for access directed to the system operator;

means for allowing the system operator to forward the request for access and information concerning the interested customer requesting access to the information provider in response to a request for access; and

means for allowing the information provider to make a decision to grant or deny the request for access and to communicate the decision to the system operator,

whereupon in response to a deny access decision, the interested customer is notified of the deny decision without learning the identity of the information provider, and

whereupon in response to a grant access decision, the system operator grants the interested customer access to the specified information responsive to the query.

110. The system according to claim 107, wherein the system is used to facilitate the exchange of information pertaining to commercial real estate available for sale, the information providers are owners or owner representatives that provide information concerning the availability of properties for sale, and the information customers are buyers or buyer representatives.

111. The system according to claim 108, further comprising means for obtaining a non-disclosure agreement from the interested potential customer as a condition of receiving access to the specified information.

112. The system according to claim 111, wherein the means for obtaining a non-disclosure agreement from the interested potential customer as a condition of receiving access to the specified information includes means for obtaining an electronic signature.

113. The system according to claim 109, further comprising data records containing a profile of each of the second subset of customers and means for transmitting the profile information to information providers in response to a request for access.

114. The system according to claim 109, wherein the system includes means for forwarding a request for access and information concerning the customer requesting access to the information provider in response to a request for access, and requesting a response from the information provider in real time through the Internet or through wireless data transmission.

115. A system for use in information exchange between a system operator, a plurality of information providers, and a plurality of information customers, to allow the information providers to both distribute specified information through the Internet and control dissemination of information, the system comprising:

(a) means for making the information provider's specified information available through a secure website on the Internet;

(b) means for providing a description of the specified information in a searchable database containing a plurality of descriptions of information;

(c) means for allowing a customers to query the searchable database and retrieve information sufficient to show the existence of information responsive to the query without revealing all of the information;



(d) means for allowing one or more of the customers that are interested in obtaining access to the complete information to communicate their interest in access to the information responsive to the query;

(e) means for forwarding the request for access and information concerning the interested customer requesting access to the information provider in response to a request for access; and

(f) means for allowing the information provider to make a decision to grant or deny the request for access to the information responsive to the query, whereupon in response to a deny access decision, the interested customer is notified of the deny decision without learning the identity of the information provider, and whereupon in response to a grant access decision, the interested customer receives access to the specified information.

116. The system according to claim 115, wherein the means for allowing one or more of the customers that are interested in obtaining access to the complete information to communicate their interest in access to the information responsive to the query, includes:

means for allowing the interested customer to send a request for access directed to the system operator;

means for allowing the system operator to forward the request for access and information concerning the interested customer requesting access to the information provider in response to a request for access; and

means for allowing the information provider to make a decision to grant or deny the request for access and to communicate the decision to the system operator,

whereupon in response to a deny access decision, the interested customer is notified of the deny decision without learning the identity of the information provider, and

whereupon in response to a grant access decision, the system operator grants the interested customer access to the specified information responsive to the query.

117. The system according to claim 115, wherein the system is used to facilitate the exchange of information pertaining to commercial real estate available for sale, the information providers are owners or owner representatives that provide information concerning the availability of properties for sale, and the information customers are buyers or buyer representatives.

118. The system according to claim 115, further comprising means for obtaining a non-disclosure agreement from the interested potential customer as a condition of receiving access to the specified information.

119. The system according to claim 118, wherein the means for obtaining a non-disclosure agreement from the interested potential customer as a condition of receiving access to the specified information includes means for obtaining an electronic signature.

120. The system according to claim 115, further comprising data records containing a profile of each customer and means for transmitting the profile information to information providers in response to a request for access.

121. The system according to claim 115, wherein the system includes means for forwarding a request for access and information concerning the customer requesting access to the information provider in response to a request for access, and requesting a response from the information provider in real time through the Internet or through wireless data transmission.

122. A system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and transmitting the selected data files to the user, the system comprising:

user equipment sets, each user equipment set including means for inputting or determining a user's geographic location and for transmitting information pertaining to the user's location to a remote computer;

a computer, the computer equipped for communication with geographically remote users that are equipped with the equipment sets so as to send data to the equipment sets and receive data from the equipment sets including data pertaining to a user's location; and

a database in communication with the computer, the database storing information that includes information identifying the location of a property,

whereby, in response to receipt of data pertaining to a user's location, the computer retrieves information pertaining to the user's location and transmits the same to the user's equipment set for display on the display.

123. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location and automatically transmitting the selected data files to the user according to claim 122, wherein the information pertaining to the user's location includes information concerning comparable properties.

124. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location and automatically transmitting the selected data files to the user according to claim 122, wherein the information pertaining to the user's location includes information concerning three dimensional video description of properties.

125. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location and automatically transmitting the selected data files to the user according to claim 122, wherein the information pertaining to the user's

location includes information concerning historical performance of commercial properties.

126. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location and automatically transmitting the selected data files to the user according to claim 122, wherein the information pertaining to the user's location includes information concerning comparable lease data for commercial properties.

127. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 122, wherein the information stored in the database includes information pertaining to commercial real estate located proximate to the user's location, the information including at least one of data and images describing the commercial real estate, whereby in response to receipt of data pertaining to a user's location, the computer retrieves information describing the commercial real estate near the user's current location and transmits the same to the user's equipment set for display on the display.

128. The system for correlating information stored in a remote database with a user's location, retrieving pertinent data files from the database based upon the user's location, and automatically transmitting the selected data files to the user according to claim 122, wherein the information stored in the database includes information pertaining to residential real estate located proximate to the user's location, the information including at least one of data and images describing the residential real estate, whereby in response to receipt of data pertaining to a user's location, the computer retrieves information describing the residential real estate near the user's current location and transmits the same to the user's equipment set for display on the display.

129. The system for correlating information stored in a remote database with a user's location and retrieving pertinent data files from the database based upon the user's location and automatically transmitting the selected data files to the user according to claim 122, whereby in response to receipt of data pertaining to a user's location, the computer retrieves geographically pertinent information and transmits the same to the user's equipment set for display on the display.

130. The system for correlating information stored in a remote database with a user's location and retrieving pertinent data files from the database based upon the user's location and automatically transmitting the selected data files to the user according to claim 122, wherein the display comprises:

- (i) a map of a geographic area;
- (ii) an indicator on the map to indicate a property for which information is recorded in the database; and
- (iii) a pop-up window linked to the indicator, wherein the pop-up window appears when the user's location is proximate to the property for which information is recorded in the database, and wherein the pop-up window displays the information recorded in the database.

131. The method of claim 130, wherein the information includes at least one of a photograph of the property, an address of the property, a building class size of the property, a building size of the property, a number of floors of the property, a year in which the property was built, a buyer of the property, a sale price of the property, a price per square foot of the property, and a cap rate of the property.

132. A system for storing and automatically displaying descriptions and visual images of real estate on a user's display, comprising:

means for generating a plurality of digitized video images of selected real estate, each digitized video image depicting a view of a specified area of a real estate property;

means for storing data records concerning the real estate including the digitized video images, textual information concerning the real estate, and information identifying the geographic location of the real estate in a computer database;

means for determining a user's geographic location;

means for retrieving data records corresponding to the user's geographic location; and

means for displaying on a single display the digitized video images and textual information.

133. The system of claim 132, further comprising means for generating and displaying three dimensional video depictions.

134. The system of claim 132, wherein the single display comprises:

(i) a map of a geographic area;

(ii) an indicator on the map to indicate a location of a property for which a data record exists;

(iii) a link to the data record on the map proximate to the indicator;

and

(iv) a pop-up window proximate to the indicator, wherein the pop-up window appears when the link is activated, and wherein the pop-up window includes at least a portion of the data record.

135. The system of claim 134, wherein the link is activated by one of dragging a pointer over the indicator, touching a touch screen at the indicator, and voicing a command to a voice activated response system.

136. A system for facilitating commercial real estate information loan transactions comprising:

at least one searchable database containing data records that:

- identify a plurality of commercial real estate properties,
- associate at least one lender with each of the commercial real estate properties,
- associate a loan commitment with each of the commercial real estate properties,
- provide information sufficient to evaluate the investment value of the property, and
- provide a list of qualified buyers or information sufficient to evaluate the credit worthiness of prospective buyers;

a search engine for allowing potential customers to query the searchable database;

communication equipment for allowing potential customers that are interested in purchasing a commercial real estate property to communicate their interest and lock in the loan commitment associated with that commercial real estate property subject to qualification of the potential customer as a qualified buyer; and

a computer for determining whether the potential customer is a qualified buyer and prompting the potential customer to provide further information, if required.

137. The system for facilitating commercial real estate information loan transactions of claim 136, wherein the data records that identify commercial real estate properties include information pertaining to

square footage data representing a square footage of the commercial real estate;  
data characterizing the selected use of the commercial real estate;  
cost data;  
data about the tenant in the commercial real estate;  
a real estate submarket identification;  
a classification of the commercial real estate based upon at least one of the following: a building grade, an age of the building, and an extrapolation of comparable buildings;  
information pertaining to the submarket including at least one of rent data, vacancy data and absorption rate data; and  
building-specific information,  
wherein the system further comprises computers and communication equipment for allowing a plurality of users to query the database, add data to the database, and retrieve information from the database.

138. A method for facilitating commercial real estate information loan transactions comprising the steps of:

providing at least one searchable database that contain data records that:  
identify a plurality of commercial real estate properties,  
associate at least one lender with each of the commercial real estate properties,  
associate a loan commitment with each of the commercial real estate properties,  
provide information sufficient to evaluate the investment value of the property, and  
provide a list of qualified buyers or information sufficient to evaluate the credit worthiness of prospective buyers;



allowing potential customers to query the searchable database to identify commercial real estate properties of interest and, in response to such queries, presenting the potential customers with information sufficient to evaluate the investment value of each property and the loan commitment associated with that commercial real estate property; and

allowing potential customers that are interested in purchasing a commercial real estate property to communicate their interest and lock in the loan commitment associated with that commercial real estate property subject to qualification of the potential customer as a qualified buyer; and

determining whether the potential customer is a qualified buyer and prompting the potential customer to provide further information, if required.

139. A system for facilitating commercial real estate information loan transactions comprising:

at least one searchable database containing data records that:

identify a plurality of qualified buyers of commercial real estate together with information sufficient to evaluate the credit worthiness of each of the qualified buyers listed; and

associate either a category of interest or past purchase information indicative of a category of interest with each qualified buyer;

a search engine for allowing potential sellers of commercial real estate to query the searchable database; and

communication equipment for allowing potential sellers of commercial real estate property to communicate information concerning their property to qualified buyers.

140. The system for facilitating commercial real estate information loan transactions of claim 139, further comprising data records that contain information concerning commercial real estate properties include information pertaining to

- square footage data representing a square footage of the commercial real estate;

- data characterizing the selected use of the commercial real estate;

- cost data including a rental price of the commercial real estate;

- data about the tenant in the commercial real estate;

- a real estate submarket identification;

- a classification of the commercial real estate based upon at least one of the following: a building grade, an age of the building, and an extrapolation of comparable buildings;

- information pertaining to the submarket including rent data, vacancy data and absorption rate data; and

- building-specific information; and

- a computer for allowing qualified buyers to access the information concerning commercial real estate properties for which they receive information from potential sellers.

141. A method for facilitating commercial real estate information loan transactions comprising:

- providing at least one searchable database containing data records that:

- identify a plurality of qualified buyers of commercial real estate together with information sufficient to evaluate the credit worthiness of each of the qualified buyers listed; and

- associate either a category of interest or past purchase information indicative of a category of interest with each qualified buyer;

providing a search engine for allowing potential sellers of commercial real estate to query the searchable database; and

allowing potential sellers of commercial real estate property to communicate information concerning their property to qualified buyers, the information including market information and building-specific information.

142. A method for providing information concerning real estate property comprising the steps of:

- (a) displaying a user interface;
- (b) displaying a display element on the user interface to indicate a real estate property;
- (c) linking the display element to a data entry for the real estate property;
- (d) allowing a user to select the display element; and
- (e) in response to selection of the display element, retrieving and displaying information from the data entry.

143. The method of claim 142, wherein the user selects the display element by dragging a pointer proximate to the display element, and wherein the information from the data entry is automatically retrieved and displayed.

144. The method of claim 143, wherein the information from the data entry is displayed in a pop-up window.

145. The method of claim 144, further comprising allowing the user to click on the pop-up window to receive more information from the data entry.

146. The method of claim 142, wherein the user selects the display element by one of clicking through the indicator, using a touch screen, and using a voice activated response system.

147. The method of claim 142, wherein the information includes one or more of an image of the real estate property, audio content relating to the real estate property, video of the real estate property, and textual information on the real estate property.

148. The method of claim 147, wherein the textual information includes one of an address of the real estate property, a building class size of the real estate property, a building size of the real estate property, a number of floors of the real estate property, a year in which the real estate property was built, a buyer of the real estate property, a sale price of the real estate property, a lease price of the real estate property, a price per square foot of the real estate property, and a cap rate of the real estate property.

149. The method of claim 142, wherein the user interface is a chart and the display element is a textual listing of the real estate property.

150. The method of claim 142, wherein the user interface is a map and the display element is an icon.

151. The method of claim 150, wherein the icon signifies a characteristic of the real estate property.

152. The method of claim 151, wherein the icon signifies that the real estate property is one of an office space, an industrial space, and a retail space.

153. The method of claim 151, wherein the icon signifies that the real estate property is one of a condominium, a townhouse, and a single family home.

154. The method of claim 151, wherein the icon signifies the price range of the real estate property.

155. The method of claim 151, wherein the icon signifies the price of the real estate property.

156. In a system comprising a plurality of user computers having displays in communication with a searchable database, a method of displaying data retrieved from the searchable database on a user display of a user computer, the method comprising the steps of:

displaying a first portion of the data retrieved from the searchable database on the user display;

storing a second portion of the data retrieved from the searchable database on the user computer;

in response to a user input selecting the first portion of the data displayed, identifying a subset of the second portion of data that is relevant to the selected first portion of the data displayed; and

displaying on the user display the subset of the second portion of data that is relevant to the selected first portion of the data displayed, wherein the subset of the second portion displayed is less than the entire second portion of data.

157. The method of claim 156, wherein the first portion of the data retrieved from the searchable database is displayed in one of a text format and a map format.

158. The method of claim 157, wherein the text format is one of a grid, a spreadsheet, and a chart.

159. The method of claim 156, wherein the user input comprises passing a pointing device icon over one of a portion of text and an icon.

160. The method of claim 156, wherein the data retrieved includes at least digital images, price information, and address information,  
wherein the first portion of data retrieved includes the price information and the address information, and  
wherein the subset of the second portion of data includes the digital images.

161. The method of claim 156, wherein displaying a first portion of the data retrieved comprises using icons to provide information about the first portion of the data retrieved.

162. The method of claim 161, wherein the icons provide geographic location information by their placement on a map of the user display.

163. The method of claim 162, wherein the icons have appearances that convey one of a property type, a cost of a property, and an identity of a broker listing a property.

164. The method of claim 163, wherein the icons are digital images of real estate property.

165. The method of claim 156, wherein the data retrieved comprises only properties listed by a particular broker and the user display is a part of a web site of the particular broker.



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## Patents Act 1977 Search Report under Section 17

### Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK CI (Ed.T): G4A(AUXF)

Int Cl (Ed.7): G06F 17/00, 17/60

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### Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	EP 0902381 A2 (AMAZON.COM), see abstract	1, 107
X, E	WO 01/63528 A1 (IPDN), see abstract	1, 107
X, E	WO 01/48643 A1 (DIGIT), see abstract	1, 107
X, E	WO 01/16768 A1 (NETSPEND), see abstract	1, 107
X, P	WO 01/11513 A1 (PARK), see abstract	1, 107
X, P	WO 00/75843 A1 (INTELISHIELD), see abstract	1, 107
X	WO 00/04476 A1 (USA TECHNOLOGIES), see abstract	1, 107
X	WO 99/49404 A1 (TELCORDIA), see abstract	1, 107

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