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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR DETERMINING GRAPH RELATIONSHIPS USING IMAGES

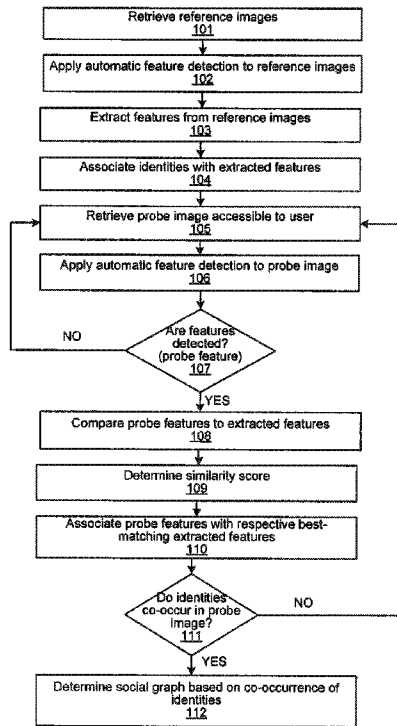
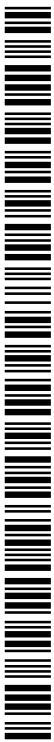


Figure 1

(57) Abstract: A system and method for determining graph relationships using images is disclosed. According to one embodiment, the computer-implemented method includes detecting a first feature from an image, detecting a second feature from the image, matching the first feature with a first identity that is associated with a first reference feature, matching the second feature with a second identity that is associated with a second reference feature, and determining a relationship between the first identity and the second identity based on the first feature co-occurring with the second feature in the image.



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**A. CLASSIFICATION OF SUBJECT MATTER****G06F 17/00(2006.01)i, G06F 17/30(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

G06F 17/00; G06F 15/16; G06Q 30/00; G06N 5/02; G06F 17/30

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) &amp; Keywords: social, relationship, image, co-occurrence, match, tag, identity, user, object, share, familiarity, frequency, and similar terms.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2010-0179874 A1 (CHRISTOPHER HIGGINS et al.) 15 July 2010 See paragraphs [0058], [0062], [0075]-[0089], [0127]-[0135], and [0139]-[0187]; claims 1-2; and figures 1, 6-9, 16-18, and 21-27.	1-5, 10-17, 22-24
A		6-9, 18-21
Y	ELIE RAAD et al., "Discovering relationship types between users using profiles and shared photos in a social network," Multimedia Tools and Applications, 11 August 2011, Volume 64, Issue 1, pp 141-170. See page 143, line 16 - page 146, line 14; page 151, line 34 - page 153, line 8; and figure 4.	1-5, 10-17, 22-24
A	US 2009-0192967 A1 (JIEBO LUO et al.) 30 July 2009 See paragraphs [0025]-[0055]; claim 1; and figures 2-4B.	1-24
A	US 2006-0004914 A1 (SEAN KELLY et al.) 05 January 2006 See paragraphs [0074] and [0182]-[0198]; and figure 11.	1-24
A	US 2006-0242178 A1 (DANIEL STEWART BUTTERFIELD et al.) 26 October 2006 See paragraphs [0019]-[0022] and [0030]-[0032]; and figures 1-2.	1-24

 Further documents are listed in the continuation of Box C. See patent family annex.

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/IB2013/002175**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010-0179874 A1	15/07/2010	None	
US 2009-0192967 A1	30/07/2009	EP 2245580 A1 JP 2011-514575 A JP 5383705 B2 US 7953690 B2 WO 2009-094142 A1	03/11/2010 06/05/2011 08/01/2014 31/05/2011 30/07/2009
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