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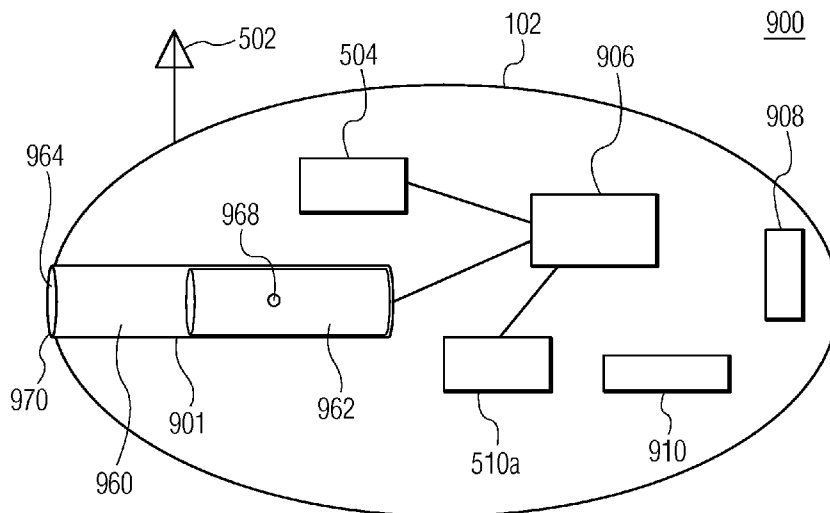
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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a  
patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: ELECTRONICALLY CONTROLLED CAPSULE



(57) Abstract: An electronically controlled capsule or medicament delivery system (900) is provided. Disposed within a housing (102) of the system (900) configured for internal placement within a patient is a reservoir (960) for storing medicament. The reservoir (960) communicates with at least one respective aperture (970) of the housing (102). A pressure mechanism (962) is provided for displacing medicament stored within the reservoir (960) for causing the medicament to exit the housing (102) through the at least one respective aperture (970). At least one a closure member (966) is provided. Respective closure members (966) are in fluid communication with an associated aperture. The respective closure members (966) are actuatable between a closed state for substantially blocking flow of the medicament through the respective closure member (966) and an open state for permitting flow of the medicament through the respective closure member (966) for dispensing of the medicament. Control circuitry (906) is provided for controlling at least one of the pressure mechanism (962) and actuation of the respective closure members (966).

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

INTERNATIONAL SEARCH REPORT

International application No  
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A. CLASSIFICATION OF SUBJECT MATTER  
INV. A61M31/00 A61B5/00 A61K9/00 A61B1/04 A61B1/05

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)  
A61M A61K A61B

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 374 149 A (* HEWLETT-PACKARD COMPANY) 9 October 2002 (2002-10-09)	1-8, 19-21, 23,24, 44-47
Y	page 5, line 1 - page 11, line 11; figures 1-3 page 17, line 1 - page 20, line 24; figures 8-13	9,10
X	----- WO 03/068061 A (C.T.M; DUFFAIT, ROLAND; ROGNON, BERNARD; LAMBERT, ALAIN; BAERTSCHI, JE) 21 August 2003 (2003-08-21) the whole document	1,2,4,5, 13-16, 18,19
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Further documents are listed in the continuation of Box C.  See patent family annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

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## INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2004/122315 A1 (KRILL JERRY A) 24 June 2004 (2004-06-24) the whole document	24-27, 42-47 1,13, 19-21
X	----- US 2001/044620 A1 (KRULEVITCH PETER A ET AL) 22 November 2001 (2001-11-22)  the whole document	1,3-8, 11,13, 14,19, 20,44-47
X	----- US 6 551 838 B2 (SANTINI JOHN T ET AL) 22 April 2003 (2003-04-22)  the whole document	1-3,5, 11, 13-27, 36-39, 44-47
X A	----- US 3 923 060 A (ELLINWOOD, JR. ET AL) 2 December 1975 (1975-12-02) column 3, line 45 - column 13, line 21; figures 1-11	1,3-5,22  14
X	----- US 5 833 603 A (KOVACS ET AL) 10 November 1998 (1998-11-10) column 6, line 8 - column 8, line 67; figures 1,2	24-27
A Y	----- WO 01/26708 A (THE OHIO STATE UNIVERSITY) 19 April 2001 (2001-04-19)  page 14, line 16 - page 18, line 16; figures 1-6 page 47, line 11 - page 48, line 17 page 57, line 21 - page 58, line 13	1,12, 14-18, 22,36, 44,46 9,10
X	----- US 5 170 801 A (CASPER ET AL) 15 December 1992 (1992-12-15) column 3, line 24 - column 4, line 62; figures 2-4	44-47
X A	----- WO 03/028797 A (HEWLETT-PACKARD COMPANY) 10 April 2003 (2003-04-10) paragraph [0059] - paragraph [0062]; figures 5-7	46,47  44
X A	----- US 6 377 848 B1 (GARDE KENNETH E ET AL) 23 April 2002 (2002-04-23) column 4, line 47 - column 5, line 57; figures 1,2	46,47  44

# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 28-35  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see annex

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-22, 23-27 (partially), 36-39, 44-47

Medicament delivery system for dispensing a medicament from with a patient comprising:  
a housing with an aperture, a reservoir, a pressure mechanism, at least one closure member, control circuitry for controlling at least one of said pressure mechanism and actuation of said respective closure member.

1.1. claims: 23-27 (partially)

An internal medical capsule system comprising a housing for internal placement within a patient; control circuitry; a medical system (medicament dispensing system) controllable by the control circuitry; and an ultrasound transducer element disposed in the housing for receiving and transmitting ultrasound signals between at least one of the medical system and the control circuitry and another device external to the housing.

1.2. claims: 36-39

Treatment system for administering at least two medicaments comprising two medicament delivery systems and signal circuitry .

1.3. claims: 44-47

A modular component of an electrical internal medicament dispensing system comprising a reservoir and at least one connector; and  
a medicament dispensing system comprising a housing , at least one modular component comprising a reservoir for holding a medicament, at least one connector, at least one control mechanism and control circuitry.

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2. claims: 40-43

An internal medical capsule system comprising a housing, a light source assembly, a photo detector assembly and control circuitry.

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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