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[Continued on next page]

(54) Title: COLOR DETECTION SYSTEM FOR DETECTING RESERVOIR PRESENCE AND CONTENT IN MEDICAL FLUID ADMINISTRATION DEVICE

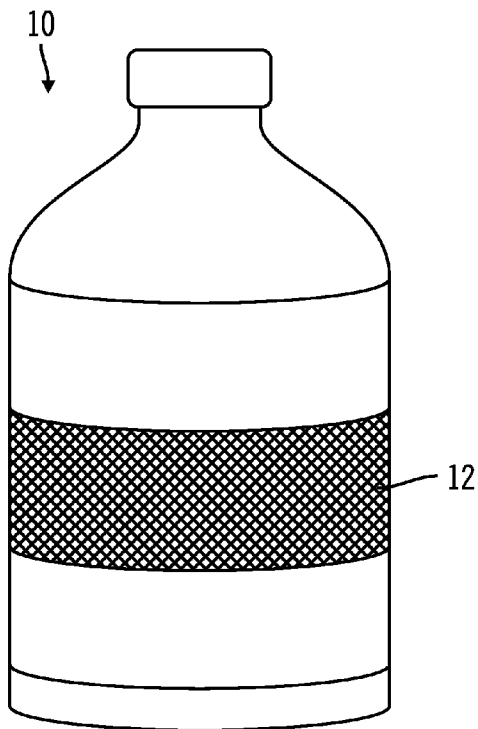


FIG. 1A

(57) Abstract: A system for identifying a reservoir used with a fluid delivery device. The system includes a reservoir (10) comprising a housing for holding fluid and a colored marking (12) located on a surface of the housing. A fluid delivery device includes a compartment for receiving and operatively coupling with the reservoir. A light source shines light on the colored marking of the reservoir. A color sensor detects wavelengths reflected and/or refracted from the colored marking due to the light shined on the colored marking. A processor of the delivery device determines a color of the colored marking from the detected wavelengths and ascertains information related to the reservoir or the fluid in the reservoir corresponding to the determined color, wherein the processor operates the fluid delivery device according to the ascertained information, wherein the information may include a reservoir type and/or medication type.

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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. A61M5/142 G06K7/12 G06K19/06

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 G06K

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	WO 2006/084464 A1 (NOVO NORDISK AS [DK]; NIELSEN PREBEN [DK]) 17 August 2006 (2006-08-17) the whole document claim 7 <div style="text-align: center;">----- -/--</div>	1-37

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

Date of the actual completion of the international search

30 April 2010

Date of mailing of the international search report

11/08/2010

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INTERNATIONAL SEARCH REPORT

 International application No
 PCT/US2009/068789

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/129301 A2 (SPECTRUM DYNAMICS [IL]; ROUSSO BENNY [IL]; BEN-HAIM SHLOMO [GB]; BRONS) 7 December 2006 (2006-12-07) abstract figures 1,2,7-9,14,16 page 15, line 21 - page 18, line 26 page 40, line 3 - page 44, line 10 page 46, line 8 - page 47, line 6 page 71, line 28 - page 73, line 17 page 79, line 4 - line 32 page 90, line 22 - line 26 page 92, line 2 - line 5 page 96, lines 8-11 page 100, line 20 - page 102, line 23	1-37
X	JP 2003 220136 A (NEMOTO KYORINDO KK) 5 August 2003 (2003-08-05) abstract figure 10 paragraph [0049]	1,7,21
X	WO 2005/032449 A1 (NOVO NORDISK AS [DK]; CHRISTOFFERSEN WENGEL LASSE [DK]; NIELSEN PREBEN) 14 April 2005 (2005-04-14) the whole document	1-37
X	GB 2 006 678 A (GRAUEL & CO KG B) 10 May 1979 (1979-05-10) the whole document	1-5
X	EP 1 872 814 A1 (DEBIOTECH SA [CH]) 2 January 2008 (2008-01-02) the whole document	1-37
A	WO 2008/150715 A1 (LILLY CO ELI [US]; MACK ADAM MEKEEL [US]; RITSHER KENNETH ALAN [US]) 11 December 2008 (2008-12-11) abstract figures 3,4 page 14, line 19 - page 15, line 15	18,32
A	WO 2008/146021 A1 (UCB PHARMA SA [BE]; MCLOUGHLIN MARTIN JOHN [GB]) 4 December 2008 (2008-12-04) the whole document	6,35

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/068789

Box No. 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.:
because they relate to subject matter not required to be searched by this Authority, namely:

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 No. 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 fees, this Authority did not invite payment of additional fees.
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.:

1-37

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- 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: 1-37

Claims 1-37 essentially define a medical fluid delivery system, comprising a fluid delivery device and a reservoir having color markings.

2. claims: 38-54

Claims 38-54 essentially define a system for monitoring a characteristic of a user, comprising a sensor set having color markings, a transmitter and a remote device.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2009/068789

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
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