

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 August 2008 (28.08.2008)

PCT

(10) International Publication Number
WO 2008/103484 A3

(51) International Patent Classification:
B65B 1/04 (2006.01)

(21) International Application Number:
PCT/US2008/002422

(22) International Filing Date:
25 February 2008 (25.02.2008)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/903,178 23 February 2007 (23.02.2007) US

(71) Applicant (for all designated States except US): **OVER-LOOK INDUSTRIES, INC.** [US/US]; P.O. Box 869, 116 Pleasant Street, Suite 2317, Easthampton, MA 01027 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MORIN, John, Arthur** [US/US]; 11 Overlook Drive, Florence, MA 01062 (US). **WARREN, Thomas, Lloyd** [US/US]; Kingsberry Way, Easthampton, MA 01027 (US).

(74) Agent: **GIBSON, Daniel, R.**; Cantor Colburn LLP, 20 Church St., 22nd Floor, Hartford, CT 06103-3207 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

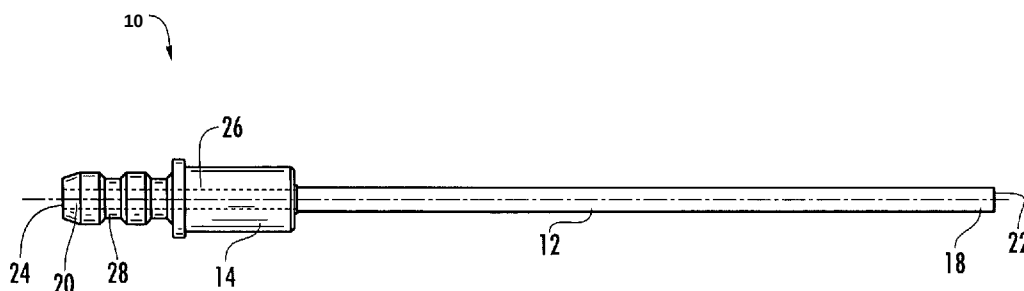
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
9 October 2008

(54) Title: HLLING NEEDLE



(57) Abstract: Disclosed is a filling needle of a fluid-dispensing system, the filling needle including a needle portion that is a metallic material, a hub affixed to an end of the needle portion, wherein the hub is non-metallic and configured to securely associate with the fluid-dispensing system, and allow the fluid-dispensing system to be in fluid communication with the needle portion.



WO 2008/103484 A3

INTERNATIONAL SEARCH REPORT

International application No

PCT/US 08/02422

A CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61 M 5/32 (2008.04)

USPC - 604/272

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)

IPC(8) ? A61M 5/32 (2008 04)

USPC ? 604/272

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
604/48, 93 01, 264

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

WEST - DB=PGPB,USPT,USOC,EPAB,JPAB, PLUR=YES, OP=ADJ, Google

Search Terms steel, stainless-steel, metallic, metal, hub, connector, housing, port, polymer, polymeric, rubber, plastic, non-metallic, needle, pipette, syringe, pin, dispenser, dispense, dispensing, syringe, pipetted, pipetting, tube, tubing, hose, fluid, liquid,

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X ----- Y	US 3,029,815 A (ROEHR Z) 17 April 1962 (17 04 1962) col 1, ln 9-11, col 2, ln 36-44 and 54-62, col 3, ln 1-5 and 55-61	1-4 ----- 5-12
Y	US 3,247,641 A (RIDLEY J) 26 April 1966 (26 04 1966) col 1, ln 23-30, 35-42 and 69-72, col 2, ln 1-5	5, 7 12
Y	US 4,998,921 A (VICKROY et al) 12 March 1991 (12 03 1991) col 3, ln 66-68, col 4, ln 1-3, col 5, ln 26-32, Fig 4-7	6-13
Y	US 5,171,214 A (KOLBER et al) 15 December 1992 (15 12 1992) col 4, ln 59-61, Fig 4	13

☐ Further documents are listed in the continuation of Box C**D**

* 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 application or patent 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

03 July 2008 (03 07 2008)

Date of mailing of the international search report

16 JUL 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn ISA/US, Commissioner for Patents
P O Box 1450, Alexandria, Virginia 22313-1450

Facsimile No 571-273-3201

Authorized officer

Lee W Young

PCT Hq/US 571-272-4300
PCTOSP 571-272-7774