

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 May 2008 (08.05.2008)

PCT

(10) International Publication Number
WO 2008/053286 A3

(51) International Patent Classification:

B67D 5/04 (2006.01) **B67D 5/37** (2006.01)
B67D 5/34 (2006.01) **G05D 7/01** (2006.01)
B67D 5/08 (2006.01)

(21) International Application Number:

PCT/IB2007/002018

(22) International Filing Date: 17 July 2007 (17.07.2007)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:

06425492.3 17 July 2006 (17.07.2006) EP

(71) Applicant (for all designated States except US): **FILCAR, S.P.A.** [IT/IT]; Via G. Balla, 18/a, I-42100 Reggio Emilia (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DI BETTA, Rosolino** [IT/IT]; Via Cipriani, 32, I-42100 Reggio Emilia (IT). **BASCHIERI, Elio** [IT/IT]; Via Mazzelli, 13, I-42100 Gavasseto (IT). **VIRGA, Giuseppe** [IT/IT]; Via G. Matteotti, 44, I-42040 Campegine (IT). **GIANNINI, Luca** [IT/IT]; Via Pascal, 39, I-42020 Rivalta (IT).

(74) Agents: **JORIO, Paolo** et al.; c/o Studio Torta S.r.l., Via Viotti, 9, I-10121 Torino (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, 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.

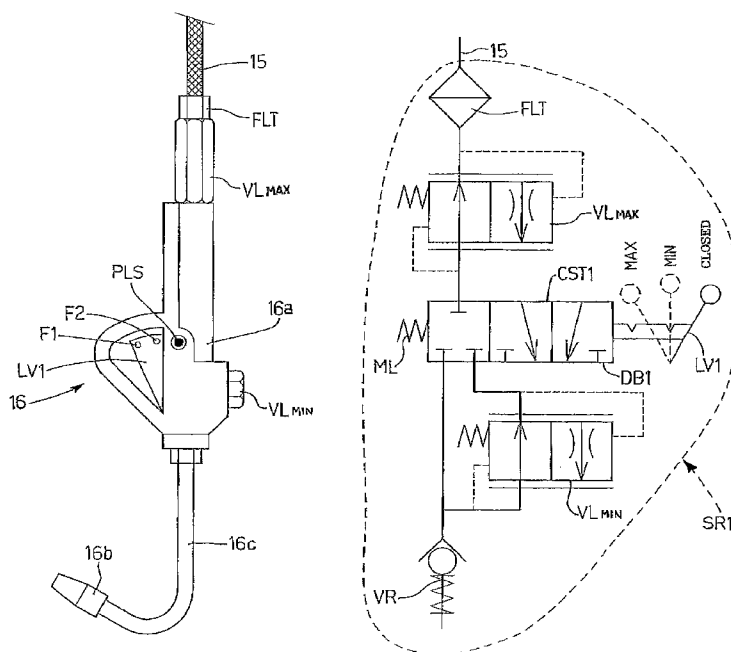
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: A FLUID DISPENSING GUN IN A WORKSHOP FLUID DISTRIBUTION PLANT



(57) Abstract: A dispensing gun (16) of a fluid in a workshop distribution plant (10) of at least one fluid (FL). A dispensing gun (16) is characterised in that at least one GFRV compensated flow regulating valve (100, 200, 300) is mechanically associated directly to the dispensing gun (16) itself. Furthermore, the CFRV valve (100, 200, 300) may be integral with the dispensing gun (16) itself. The CFRV valve (100, 200, 300) may be of the "fixed calibration" or of the "adjustable calibration" type.

WO 2008/053286 A3



(88) Date of publication of the international search report:
26 June 2008

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/002018

A. CLASSIFICATION OF SUBJECT MATTER INV. B67D5/04 B67D5/34 B67D5/08 B67D5/37 G05D7/01		
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) B67D F15B G05D		
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		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 204 659 A (RICHARDS GEORGE B ET AL) 7 September 1965 (1965-09-07)	1-5, 8, 13, 14
Y	column 1, line 13 - line 36 column 4, line 33 - line 64 column 5, line 21 - line 24 column 5, line 73 - column 6, line 11; figures 1-12	6, 7
Y	US 2006/021657 A1 (CHERFANE RAYMOND C [US] ET AL) 2 February 2006 (2006-02-02) paragraphs [0042], [0043]; figures 1-8	6
Y	US 2 198 487 A (SISK MARTIN A) 23 April 1940 (1940-04-23) figures 1-3	7
	----- -/--	
☒ 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 25 April 2008		Date of mailing of the international search report 07/05/2008
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Wartenhorst, Frank

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2007/002018

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 431 944 A (SAKUMA MASAO) 11 March 1969 (1969-03-11) figures 1-4 -----	1
A	EP 0 098 709 A1 (CASTROL LTD [GB]) 18 January 1984 (1984-01-18) -----	
A	EP 0 781 725 A1 (GRACO INC [US]) 2 July 1997 (1997-07-02) -----	

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/002018

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3204659	A	07-09-1965	NONE	
US 2006021657	A1	02-02-2006	NONE	
US 2198487	A	23-04-1940	NONE	
US 3431944	A	11-03-1969	DE 1648038 A1 GB 1163419 A JP 48005293 Y1	27-05-1971 04-09-1969 10-02-1973
EP 0098709	A1	18-01-1984	AU 554547 B2 AU 1640483 A CA 1208610 A1 DE 3365131 D1 DK 302683 A ES 8405514 A1 GB 2122574 A IE 54344 B1 IN 159379 A1 JP 59015094 A NO 832328 A NZ 204709 A US 4542836 A ZA 8304694 A	28-08-1986 05-01-1984 29-07-1986 11-09-1986 02-01-1984 16-09-1984 18-01-1984 30-08-1989 09-05-1987 26-01-1984 02-01-1984 10-09-1986 24-09-1985 28-03-1984
EP 0781725	A1	02-07-1997	CN 1160015 A DE 69601696 D1 DE 69601696 T2 JP 9317780 A SG 48503 A1 US 5941418 A	24-09-1997 15-04-1999 22-07-1999 09-12-1997 17-04-1998 24-08-1999