



(11) **EP 2 273 121 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
16.07.2014 Bulletin 2014/29

(51) Int Cl.:
F04C 2/08^(2006.01) F04C 23/00^(2006.01)

(43) Date of publication A2:
12.01.2011 Bulletin 2011/02

(21) Application number: **10161265.3**

(22) Date of filing: **28.04.2010**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR
Designated Extension States:
AL BA ME RS

(71) Applicant: **Fluid-O-Tech S.r.l.**
20094 Corsico (MI) (IT)

(72) Inventor: **Ellero, Dario**
20154 Milano MI (IT)

(74) Representative: **Branca, Emanuela et al**
Barzanò & Zanardo Milano S.p.A.
Via Borgonuovo, 10
20121 Milano (IT)

(30) Priority: **08.06.2009 IT MI20090188 U**

(54) **Container assembly for a volumetric pump**

(57) Container assembly (10) for a volumetric gear pump of the type comprising a first gear (12), keyed on a first shaft (16), and a second gear (14), keyed on a second shaft (18). The first shaft (16) and the second shaft (18) are on different axes but parallel to each other, in such a manner that the first gear (12) may be engaged with the second gear (14). Also keyed on the first shaft (16) is the internal magnetic core (20) of a magnet forming the system for transmitting torque from an actuation mo-

tor (24) to the first gear (12). The magnet also comprises an external magnetic core (22), mounted coaxially around the internal magnetic core (20) and actuated directly by the actuation motor (24). The container assembly (10) comprises a container (26), made of deformable plastic material, capable of at least partly enclosing the internal (20) and external (22) magnetic cores of the magnet.

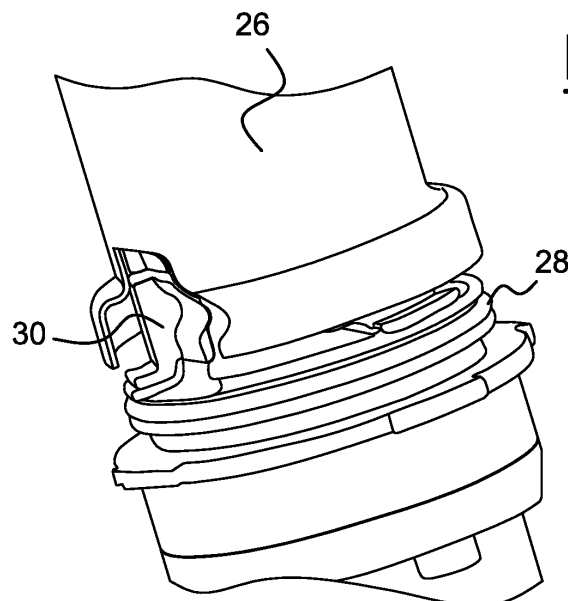


Fig. 3

EP 2 273 121 A3



EUROPEAN SEARCH REPORT

Application Number
EP 10 16 1265

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2009/029855 A1 (MICROPUMP INC [US]; KREBS LARRY F [US]; SUNADA CRAIG [US]; OWEN STEVEN) 5 March 2009 (2009-03-05)	1	INV. F04C2/08 F04C23/00
Y	* page 2, lines 23-25; figure 1(B) * * page 12, lines 4-5 *	2,3,6-8	
Y	----- EP 1 878 963 A2 (COLOMBO RENATO [IT]) 16 January 2008 (2008-01-16) * page 5, paragraph 31; figure 3 * -----	2,3,6-8	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			F04C
Place of search		Date of completion of the search	Examiner
Munich		5 June 2014	Grilli, Muzio
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone		T : theory or principle underlying the invention	
Y : particularly relevant if combined with another document of the same category		E : earlier patent document, but published on, or after the filing date	
A : technological background		D : document cited in the application	
O : non-written disclosure		L : document cited for other reasons	
P : intermediate document		
		& : member of the same patent family, corresponding document	

1
EPO FORM 1503 03.82 (F04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 10 16 1265

5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-06-2014

10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2009029855 A1	05-03-2009	CA 2698208 A1	05-03-2009
		EP 2188526 A1	26-05-2010
		JP 2010538206 A	09-12-2010
		US 2009056124 A1	05-03-2009
		WO 2009029855 A1	05-03-2009

EP 1878963 A2	16-01-2008	NONE	

15

20

25

30

35

40

45

50

55

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82