

Europäisches Patentamt European Patent Office Office européen des brevets



(11) **EP 1 281 626 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **05.03.2003 Bulletin 2003/10**

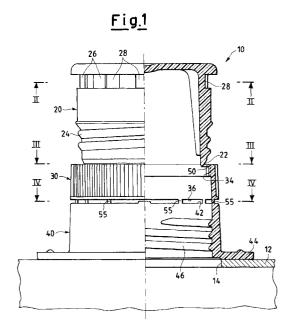
(51) Int Cl.⁷: **B65D 39/08**, B65D 101/00

- (43) Date of publication A2: **05.02.2003 Bulletin 2003/06**
- (21) Application number: 02078121.7
- (22) Date of filing: 01.08.2002
- (84) Designated Contracting States:

 AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
 IE IT LI LU MC NL PT SE SK TR
 Designated Extension States:

 AL LT LV MK RO SI
- (30) Priority: 02.08.2001 IT MI20011692
- (71) Applicant: Affaba & Ferrari S.n.c. 26851 Borgo S. Giovanni, Lodi (IT)

- (72) Inventors:
 - Ferrari, Guglielmo
 I-26851 Borgo S. Giocanni (Lodi) (IT)
 - Ferrari, Silvia
 I-26851 Borgo S. Giocanni (Lodi) (IT)
- (74) Representative: De Gregori, Antonella Ing. Barzano & Zanardo Milano S.p.A. Via Borgonuovo 10 20121 Milano (IT)
- (54) Closing device with seal for a container equipped with an opening
- (57)A closing device (10, 110, 210) for a container (12, 112, 212) equipped with an opening (14, 114, 214) at which a cylindrical distribution orifice (40, 140, 240) closed with a cap (20, 120, 220) with interposed threading (24, 46, 124, 146, 224, 246), and seal elements being foreseen (55, 155, 255) between said orifice (40, 140, 240) and said cap (20, 120, 220) to demonstrate a first use for said container (12, 112, 212); the closing device (10, 110, 210) is obtained from the moulding of a single piece and in a first position, immediately after moulding, foresees between the cap (20, 120, 220) and the distribution orifice (40, 140, 240), these sealing elements, that comprise a safety ring (30, 130, 230), that is connected, at least at its first end, to a rim (22, 122, 222) free of the cap (20, 120, 220), by bridge elements (50, 150, 250), and, at least at its second end, to the distributor orifice (40, 140, 240), by these sealing elements (55, 155, 255).



EP 1 281 626 A3



EUROPEAN SEARCH REPORT

Application Number EP 02 07 8121

Category	Citation of document with inc of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X A	US 5 711 441 A (ADAM 27 January 1998 (199 * column 2, line 42 * column 4, line 6 -	1,5,6 * 8	B65D39/08 B65D101/00	
A,P	WO 01 74683 A (MODUL (SE)) 11 October 200 * claim 1; figures *	1 (2001-10-11)	GT 2,3	
А	WO 99 50050 A (DUDZI 7 October 1999 (1999 * page 6, line 14 - *	-10-07)	,4 2,3	
А	US 5 249 695 A (ADAM 5 October 1993 (1993 * column 4, line 4 -	-10-05)	* 4	
A	WO 97 12813 A (PORTO 10 April 1997 (1997- * figure 20 *		7	TECHNICAL FIELDS SEARCHED (Int.CI.7)
	The present search report has be	en drawn up for all claims Date of completion of the searc		Examineir
	THE HAGUE	15 January 200		idault, A
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure		E : earliér pater after the filin ir D : document c L : document ci	nciple underlying the It document, but pub g date ited in the application ted for other reasons	nl ished on , or n s

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

EP 02 07 8121

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.

15-01-2003

583	A 11-	-01-1998 -10-2001	WO ZA AU CA EP	9937547 9800565 5928698 2318647 1058652 4298901 0001147	A A A1 A1	29-07-1999 30-07-1998 09-08-1999 29-07-1999 13-12-2000
No 1800), amos compo manti alkin (State State) siano c	anda dadar (Lido radio Adali Jami) (Sice etsis d	-10-2001	SE			15_10_2001
)50	A 07-		WO	0174683		01-10-2001 11-10-2001
		-10-1999	AU EP WO	2945499 1068065 9950050	A1	18-10-1999 17-01-2001 07-10-1999
95	A 05-	-10-1993	US US AU AAA AAA DE EP IP WO US US US US	5348184 203483 653779 1134092 2062008 69231954 0502716 920680 5196141 9200986 9215496 5397013 5174465 5303837 5271519 5348182	A A A T B B A A A A A A A A A A A A A A	30-04-1996 28-01-1997 21-10-1997 20-09-1994 15-08-2001 13-10-1994 10-09-1992 06-09-1992 30-08-2001 09-09-1992 06-08-1993 01-09-1992 17-09-1992 14-03-1995 29-12-1992 19-04-1994 21-12-1993 20-09-1994
313	A 10-	-04-1997	WO AU EP	3952695	Α	10-04-1997 28-04-1997 28-10-1998
	313	313 A 10-	313 A 10-04-1997	US US AT AU AU CA DE EP IE JP MX WO US US US US US US US US AU	US 5678719 US 5348184 AT 203483 AU 653779 AU 1134092 CA 2062008 DE 69231954 EP 0502716 IE 920680 JP 5196141 MX 9200986 WO 9215496 US 5397013 US 537013 US 5174465 US 5303837 US 5271519 US 5348182 US 5348183 AU 3952695	US 5678719 A US 5348184 A AT 203483 T AU 653779 B2 AU 1134092 A CA 2062008 A1 DE 69231954 D1 EP 0502716 A2 IE 920680 A1 JP 5196141 A MX 9200986 A1 WO 9215496 A1 US 5397013 A US 537013 A US 5371519 A US 5348182 A US 5348183 A

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