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(54) **OPENING/CLOSING DEVICE FOR A CONTAINER FOR POURABLE PRODUCTS**

(57) Opening/closing device (1) for a container (100) for pourable products, having at least one perforable portion (101), said opening/closing device comprising a collar (2) combinable with said container at said perforable portion, a cap (3) constrainedly movable by first guiding means (40), which are interposed between said cap (3) and said collar (2), on the outer surface (2a) of said collar (2), and a cutting element (5) constrainedly movable by second guiding means (60), which are interposed between said cutting element (5) and said collar (2), inside said collar (4) for severing said perforable portion, said device (1) further comprising pushing means (7) for said cutting element (5), which are actuated by said cap (3) during at least its first displacement on said outer surface (2a) of said collar (2), for promoting the displacement inside said collar of said at least one cutting element in the direction of said perforable portion, wherein said cap (3) is provided with at least one through hole (32) for pouring said pourable product and with at least one lid (10) integrally constrained to said cap and adapted to seal, or open, the passage of said at least one through hole (32), said first guiding means (40) only rotatably constraining said cap (3) to said collar (2), characterized further comprising means (11) for limiting the rotation of said cap with respect to the outer surface (2a) of said collar (2) between a first assembled position (P1) for said opening/closing device and a second locked position (P2) of said cap (3) on said collar (2), and in that by comprising a retaining ring (80) integrally constrained at the

lower end of said cap by a plurality of frangible bridges, said frangible bridges being severed at least when said cap is displaced from said first assembled position

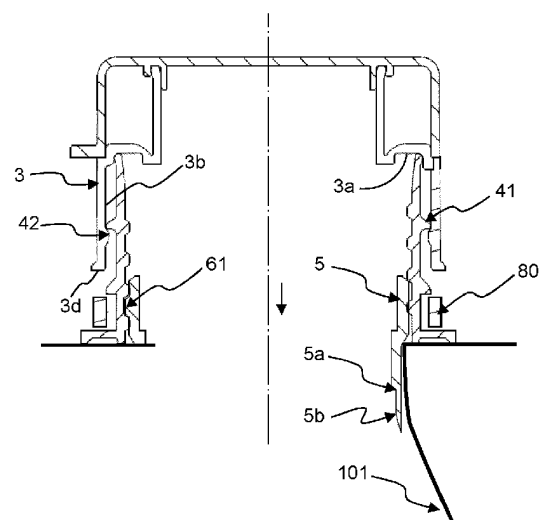


FIG. 3B



EUROPEAN SEARCH REPORT

Application Number

EP 23 18 7574

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A,D	DE 10 2010 028518 A1 (BOSCH GMBH ROBERT [DE]) 10 November 2011 (2011-11-10) * abstract; figure 1 * * paragraph [0010] - paragraph [0020] * -----	1-12	INV. B65D5/74
A,D	WO 95/05996 A1 (INT PAPER CO [US]) 2 March 1995 (1995-03-02) * abstract; figures 6-11 * * page 6, paragraph 2 - page 9, paragraph 1 * -----	1-12	
			TECHNICAL FIELDS SEARCHED (IPC)
			B65D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 19 October 2023	Examiner Leijten, René
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 P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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

EP 23 18 7574

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
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19-10-2023

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 102010028518 A1	10-11-2011	CN 102883963 A	16-01-2013
		DE 102010028518 A1	10-11-2011
		EP 2566769 A1	13-03-2013
		US 2013043260 A1	21-02-2013
		WO 2011138069 A1	10-11-2011
WO 9505996 A1	02-03-1995	AU 7519094 A	21-03-1995
		BR 9407361 A	23-04-1996
		CA 2170409 A1	02-03-1995
		EP 0714376 A1	05-06-1996
		FI 960893 A	26-04-1996
		JP H09501890 A	25-02-1997
		TW 285655 B	11-09-1996
		WO 9505996 A1	02-03-1995