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(54) **IMPROVED TAPPING VALVE AND RESPECTIVE ELECTRONIC CONTROL AND COMMUNICATION MODULE**

(57) A tapping valve (10) comprising an inlet duct (12) for a beverage to be dispensed and an outlet duct (14) for such a beverage. Between the inlet duct (12) and the outlet duct (14) for the beverage there is a dispensing group (16) that comprises a control lever (8), configured to start and stop the dispensing of the beverage through the tapping valve (10), and one or more movable sealing elements (18), operatively connected to the control lever (8) for putting the inlet duct (12) in fluid communication

with the outlet duct (14) for the beverage and thus determining the opening and closing of the dispensing group (16). The control lever is operatively connected to the movable sealing elements (18) by means of at least one proportional actuator (20) electronically controlled by an electronic control board (22). The electronic control board is thus configured to manage, in a proportional manner, the dispensing modes of the beverage.

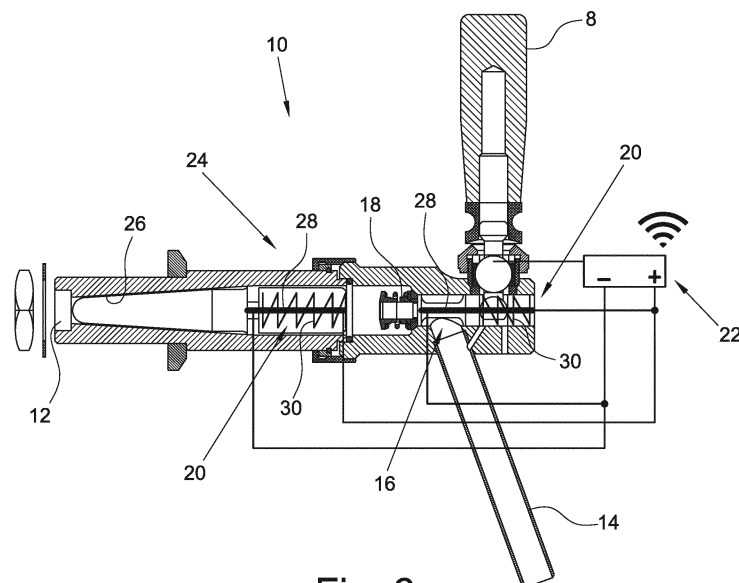


Fig. 6



EUROPEAN SEARCH REPORT

Application Number
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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	US 4 655 374 A (GUERETTE ALVIN [CA]) 7 April 1987 (1987-04-07) * column 1, line 4 - line 7 * * column 2, line 15 - column 4, line 10 * * pages 1, 2 *	1-10	INV. B67D1/14
A,D	WO 2006/122179 A2 (PAR TECHNOLOGIES LLC [US]; DONALDSON WILLIAM M [US]) 16 November 2006 (2006-11-16) * paragraph [0012] *	1,7	
A	WO 2014/199894 A1 (ASAHI BREWERIES LTD [JP]) 18 December 2014 (2014-12-18) * abstract; figure 2 *	2	
A	DE 10 2010 044549 A1 (KOHLEFURST MILLARD BRITA [US]) 8 March 2012 (2012-03-08) * paragraph [0009] - paragraph [0013] * * paragraph [0023] - paragraph [0034] * * figures 1, 2 *	1,3,4	
A	DE 198 47 465 A1 (GRUBER GUENTHER [AT]) 27 April 2000 (2000-04-27) * column 1, line 7 - column 2, line 27 * * column 2, line 58 - column 3, line 51 * * figures 1, 2 *	3,4	TECHNICAL FIELDS SEARCHED (IPC) B67D
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 19 July 2016	Examiner Schultz, Tom
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	

EPO FORM 1503 03.82 (P04C01)

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

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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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19-07-2016

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4655374 A	07-04-1987	NONE	
WO 2006122179 A2	16-11-2006	US 2006255064 A1 US 2006264829 A1 WO 2006122179 A2 WO 2006122180 A2	16-11-2006 23-11-2006 16-11-2006 16-11-2006
WO 2014199894 A1	18-12-2014	CN 105283409 A JP 2015000735 A WO 2014199894 A1	27-01-2016 05-01-2015 18-12-2014
DE 102010044549 A1	08-03-2012	NONE	
DE 19847465 A1	27-04-2000	AT 409756 B DE 19847465 A1	25-11-2002 27-04-2000