

Title (en)  
Fluid dispenser

Title (de)  
Spender für Medien

Title (fr)  
Distributeur de fluides

Publication  
**EP 0887112 A3 19991117 (DE)**

Application  
**EP 98110793 A 19980612**

Priority  
DE 19727356 A 19970627

Abstract (en)  
[origin: EP0887112A2] The throughflow controlling unit is a valve unit (10) or similar, possibly with two valves (31,32), i.e. a first valve (31) and second valve (32) upstream from the first. In the overhead position of the dispenser (1) and the downwardly directed flow direction, the media throughflow device is cut off by the second valve. The valves have at least one valve seat (33,34) together with first and second valve bodies (35,36) movable relatively to each other and in relation to the housing (4). The second valve body is formed as a driver for the first valve body. To at least one valve seat (33,34) a radial clearance-free guide (51) for the corresponding valve body connects. The guide has peripherally distributed projections (52) and preferably at least one valve body in each position is radial clearance-free centred in relation to the valve seat.

IPC 1-7  
**B05B 11/00**; **B65D 47/34**

IPC 8 full level  
**B65D 83/76** (2006.01); **B05B 11/00** (2006.01); **B65D 47/34** (2006.01)

CPC (source: EP KR US)  
**B05B 11/0059** (2013.01 - EP KR US); **B05B 11/1026** (2023.01 - EP KR US); **B05B 11/1094** (2023.01 - EP KR US)

Citation (search report)

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- [A] FR 2318685 A1 19770218 - YOSHINO KOGYOSHO CO LTD [JP]
- [A] EP 0201701 A2 19861120 - PFEIFFER ERICH GMBH & CO KG [DE]
- [X] PATENT ABSTRACTS OF JAPAN vol. 007, no. 281 (C - 200) 15 December 1983 (1983-12-15)
- [X] PATENT ABSTRACTS OF JAPAN vol. 008, no. 003 (C - 203) 7 January 1984 (1984-01-07)

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**EP 0887112 A2 19981230**; **EP 0887112 A3 19991117**; **EP 0887112 B1 20040121**; AT E258081 T1 20040215; BR 9802222 A 19991103; CN 1111495 C 20030618; CN 1205967 A 19990127; DE 19727356 A1 19990107; DE 19727356 B4 20060420; DE 59810617 D1 20040226; DK 0887112 T3 20040426; ES 2214660 T3 20040916; JP H1179224 A 19990323; KR 19990007393 A 19990125; US 6227415 B1 20010508

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**EP 98110793 A 19980612**; AT 98110793 T 19980612; BR 9802222 A 19980625; CN 98115606 A 19980626; DE 19727356 A 19970627; DE 59810617 T 19980612; DK 98110793 T 19980612; ES 98110793 T 19980612; JP 19233798 A 19980624; KR 19980024395 A 19980626; US 9855298 A 19980617