

Title (en)
DISPENSER

Title (de)
SPENDER

Title (fr)
DISPENSATEUR

Publication
EP 1015340 B1 20030514 (DE)

Application
EP 98947545 A 19980923

Priority
• CA 2297308 A 20000127
• DE 29717034 U 19970923
• EP 9806062 W 19980923

Abstract (en)
[origin: US2001025863A1] A dispensing pump implemented as modular functional unit comprises a piston body (10) having a piston section (11) and a cylinder body (20) having a cylinder section (21). The piston section (11) is slidably accommodated in the cylinder section (21). Both said elements define a pump chamber (30) together. An inlet channel (24) and an outlet channel (14) are connected via the pump chamber (30). A respective check valve (31, 32) is arranged in each of said channels (14, 24). Limiting devices (12, 22), which are adapted to be brought into engagement with one another, are provided on said piston body (10) and said cylinder body (20). In addition, a dispenser and a dispenser unit-assembly system are suggested.

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

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

CPC (source: EP US)
B05B 11/0005 (2013.01 - EP US); **B05B 11/0072** (2013.01 - EP US); **B05B 11/026** (2023.01 - EP US); **B05B 11/1001** (2023.01 - EP US); **B05B 11/1047** (2023.01 - EP US); **B05B 11/1074** (2023.01 - EP US); **B05B 11/028** (2023.01 - EP US)

Cited by
US7367476B2; US7690535B2; US7891522B2; WO2020178225A2; US11745200B2; WO2020178225A3; WO2020178339A1; US11529640B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB IE IT LI NL PT SE

DOCDB simple family (publication)
US 2001025863 A1 20011004; **US 6371333 B2 20020416**; AT E240243 T1 20030515; CA 2297308 A1 20010727; CA 2297308 C 20040720; DE 29717034 U1 19990128; DE 59808381 D1 20030618; EP 1015340 A1 20000705; EP 1015340 B1 20030514; ES 2198072 T3 20040116; WO 9915425 A1 19990401

DOCDB simple family (application)
US 52769400 A 20000317; AT 98947545 T 19980923; CA 2297308 A 20000127; DE 29717034 U 19970923; DE 59808381 T 19980923; EP 9806062 W 19980923; EP 98947545 A 19980923; ES 98947545 T 19980923