

Title (en)
DISCHARGE DEVICE FOR FLOWABLE MEDIA USING A THRUST PISTON PUMP

Title (de)
AUSTRAGVORRICHTUNG FÜR FLIESSFÄHIGE MEDIEN MITTELS EINER SCHUBKOLBENPUMPE

Title (fr)
DISPOSITIF POUR DECHARGER DES SUBSTANCES COULANTES A L'AIDE D'UNE POMPE A PISTON DE POUSSEE

Publication
EP 0951362 A1 19991027 (DE)

Application
EP 98904040 A 19980108

Priority
• DE 19700437 A 19970109
• DE 19723133 A 19970603
• EP 9800061 W 19980108

Abstract (en)
[origin: WO9830335A1] The invention concerns a disposable two-compartment atomizer for discharging two successive part-charges as a spray, said atomizer comprising on a base body (12) a projecting nose-adaptor (13) with a nozzle (14), actuating shoulders (35) where two fingers can rest, and an actuating part which can be pressed into the base body and has an actuating sleeve (25) and a medium store (20) held therein. A hollow needle (17) can penetrate the closure piston-stopper (21) of said medium store (20). A ring (28) is mounted on the actuating sleeve (25) by means of spokes (29) and with predetermined breakage points (30), the ring breaking when the atomizer is used for the first time and a minimum actuation pressure is maintained. The spokes strike a stop and thus delimit the first partial stroke. By rotating the actuating sleeve, the actuating section is moved into the starting position for the second stroke step, wherein intermediate webs in the form of material bridges are broken out. The second partial stroke can then also be carried out with a minimum actuating force being maintained.

IPC 1-7
B05B 11/02

IPC 8 full level
A61M 15/00 (2006.01); **B05B 11/00** (2006.01); **B05B 11/02** (2006.01); **B05B 15/06** (2006.01); **B05B 15/652** (2018.01); **B65D 47/34** (2006.01); **B67D 1/12** (2006.01)

CPC (source: EP KR US)
B05B 11/02 (2013.01 - EP KR US); **B05B 15/652** (2018.01 - EP US); **B05B 11/0044** (2018.07 - EP)

Citation (search report)
See references of WO 9830335A1

Cited by
EP1745855A2

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

DOCDB simple family (publication)
WO 9830335 A1 19980716; AT E219391 T1 20020715; AT E277689 T1 20041015; AT E475487 T1 20100815; AU 6207598 A 19980803; AU 6987498 A 19981210; AU 734535 B2 20010614; AU 740121 B2 20011101; BR 9801755 A 19990601; BR 9807065 A 20000502; CA 2277208 A1 19980716; CA 2277208 C 20071211; CN 1103642 C 20030326; CN 1250398 A 20000412; DE 19723133 A1 19981210; DE 29824620 U1 20011115; DE 59804505 D1 20020725; DE 59812015 D1 20041104; DE 59814459 D1 20100909; DK 0882516 T3 20050117; DK 0951362 T3 20020715; EP 0882516 A1 19981209; EP 0882516 B1 20040929; EP 0951362 A1 19991027; EP 0951362 B1 20020619; EP 1219356 A2 20020703; EP 1219356 A3 20020828; EP 1219356 B1 20100728; ES 2176960 T3 20021201; JP 2001509070 A 20010710; JP 4046769 B2 20080213; JP H10338298 A 19981222; KR 100492350 B1 20050531; KR 100559101 B1 20060725; KR 19990006599 A 19990125; KR 20000069945 A 20001125; PT 951362 E 20021129; US 6059150 A 20000509; US 6321942 B1 20011127

DOCDB simple family (application)
EP 9800061 W 19980108; AT 02007105 T 19980108; AT 98109321 T 19980522; AT 98904040 T 19980108; AU 6207598 A 19980108; AU 6987498 A 19980603; BR 9801755 A 19980602; BR 9807065 A 19980108; CA 2277208 A 19980108; CN 98803216 A 19980108; DE 19723133 A 19970603; DE 29824620 U 19980108; DE 59804505 T 19980108; DE 59812015 T 19980522; DE 59814459 T 19980108; DK 98109321 T 19980522; DK 98904040 T 19980108; EP 02007105 A 19980108; EP 98109321 A 19980522; EP 98904040 A 19980108; ES 98904040 T 19980108; JP 16915798 A 19980603; JP 53053898 A 19980108; KR 19980020464 A 19980602; KR 19997006158 A 19990707; PT 98904040 T 19980108; US 34133699 A 19990810; US 8975398 A 19980602