

Title (en)
Reversible spray head

Title (de)
Reversibler Sprühkopf

Title (fr)
Tête de pulvérisation reversible

Publication
EP 1445030 A3 20081217 (FR)

Application
EP 03029876 A 20031227

Priority
CH 712003 A 20030117

Abstract (en)
[origin: EP1445030A2] The spray gun has a reversible unit or key (5) in a central body, with a lateral channel (9) through it and with spray opening inserts (10,11) at its ends. Rotation of (5) by 180[deg] exchanges the active spray openings, to reverse the action. A sealing joint (12) is between (11,12). The assembly is closed by the two opposing opening inserts, and (12) butts against a stop (14). The spray gun has a reversible unit or key (5) in a central body, with a lateral channel (9) through it and with spray opening inserts (10,11) at its ends. Rotation of (5) by 180[deg] exchanges the active spray openings, to reverse the action. A sealing joint (12) is between (11,12). The assembly is closed by the two opposing opening inserts, and (12) butts against a stop (14) on one side at one end of (9) with tension applied by a locking ring (15) on the other side at the other end of (9).

IPC 8 full level
B05B 1/26 (2006.01); **B05B 15/02** (2006.01); **B05B 1/16** (2006.01); **B05B 1/28** (2006.01); **B05B 7/08** (2006.01); **B05B 15/534** (2018.01)

CPC (source: EP US)
B05B 1/16 (2013.01 - EP US); **B05B 7/0815** (2013.01 - EP US); **B05B 15/534** (2018.01 - EP US)

Citation (search report)

- [XY] US 3116882 A 19640107 - VORK WILLIAM D
- [XY] JP H04190865 A 19920709 - HONDA MOTOR CO LTD
- [XY] JP H05277406 A 19931026
- [XY] US 4116386 A 19780926 - CALDER OLIVER J
- [Y] DE 19757240 A1 19980806 - GOLDBERG HANS [DE]
- [X] US 5704548 A 19980106 - HEDGER THOMAS A [US], et al

Cited by
EP2136928A4; US9149820B2; US10913079B2; WO2009062642A1; US11865568B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)
AL LT LV MK

DOCDB simple family (publication)
EP 1445030 A2 20040811; EP 1445030 A3 20081217; CH 696630 A5 20070831; JP 2004223510 A 20040812; TW 200505582 A 20050216; TW I294311 B 20080311; US 2004195354 A1 20041007; US 6918546 B2 20050719

DOCDB simple family (application)
EP 03029876 A 20031227; CH 712003 A 20030117; JP 2004008460 A 20040115; TW 93100158 A 20040105; US 75784504 A 20040115