

Title (en)

DOUBLE-ACTING SPRAYING AND/OR DOSING HAND PUMP

Publication

EP 0431497 A3 19911121 (DE)

Application

EP 90123018 A 19901130

Priority

DE 3940101 A 19891204

Abstract (en)

[origin: EP0431497A2] In a manually activated, double-acting metering and/or spray pump having a pump element which has a pump cylinder and a pump piston mounted therein, in which case the pump cylinder is provided with a downwardly directed pipe extension which forms a junction with a suction pipe, a prolongation which is formed in the axial direction of the pump and extends into the pipe extension is provided on the pump piston. A circumferential sealing lip which points in the direction of the pump cylinder and rests sealingly against the pump piston prolongation is arranged on the pipe extension.

IPC 1-7

B05B 11/00

IPC 8 full level

F04B 9/14 (2006.01); **B05B 11/00** (2006.01)

CPC (source: EP US)

B05B 11/1088 (2023.01 - EP US)

Citation (search report)

- [Y] FR 2349749 A1 19771125 - EMSON RES [US]
- [Y] FR 2532010 A1 19840224 - REALEX CORP [US]
- [A] FR 1486392 A 19670623 - RUDOLF ALBERT

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0431497 A2 19910612; EP 0431497 A3 19911121; DE 3940101 A1 19910606; JP H03182688 A 19910808; US 5110271 A 19920505

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EP 90123018 A 19901130; DE 3940101 A 19891204; JP 32618090 A 19901129; US 62024690 A 19901130