

Title (en)

MANUALLY-ACTUATED METERING PUMP

Title (de)

MANUELL BETÄTIGTE DOSIERPUMPE

Title (fr)

POMPE DOSEUSE A ACTIONNEMENT MANUEL

Publication

EP 1572375 A1 20050914 (FR)

Application

EP 03813191 A 20031115

Priority

- FR 0303725 W 20031115
- FR 0215854 A 20021213

Abstract (en)

[origin: US2006249540A1] The invention relates to a manually-actuated metering pump of simple design, which is intended for a rigid container. The inventive metering pump is of the dual valve type, comprising a lower inlet valve and an upper ejection valve which are disposed at the input and output respectively of a metering chamber which is slidably mounted on the lower valve. Moreover, said lower valve is fixed to a hollow tube which communicates with the inside of the container. The invention can be used for dispensing fluid products.

IPC 1-7

B05B 11/00

IPC 8 full level

B05B 11/00 (2006.01)

CPC (source: EP KR US)

B05B 11/00442 (2018.07 - EP US); **B05B 11/0044** (2018.07 - EP US); **B05B 11/0046** (2018.07 - EP US); **B05B 11/0072** (2013.01 - EP US);
B05B 11/02 (2013.01 - KR); **B05B 11/1004** (2023.01 - EP US); **B05B 11/1074** (2023.01 - EP US); **F04B 9/14** (2013.01 - KR);
B05B 11/0039 (2018.07 - US); **B05B 11/0044** (2018.07 - EP US); **B05B 11/026** (2023.01 - EP US)

Citation (search report)

See references of WO 2004054721A1

Cited by

FR3106054A1; WO2021144293A1; FR3104554A1; WO2021122852A1; FR3112333A1; WO2022013156A1

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

DOCDB simple family (publication)

US 2006249540 A1 20061109; US 7481336 B2 20090127; AT E330710 T1 20060715; AU 2003300614 A1 20040709; CA 2507610 A1 20040701;
CA 2507610 C 20120724; CN 100464871 C 20090304; CN 1726090 A 20060125; DE 60306421 D1 20060803; DE 60306421 T2 20070201;
EP 1572375 A1 20050914; EP 1572375 B1 20060621; ES 2265608 T3 20070216; FR 2848618 A1 20040618; FR 2848618 B1 20060609;
JP 2006509624 A 20060323; JP 4358114 B2 20091104; KR 101024348 B1 20110323; KR 20050085640 A 20050829;
WO 2004054721 A1 20040701

DOCDB simple family (application)

US 53836205 A 20050613; AT 03813191 T 20031115; AU 2003300614 A 20031115; CA 2507610 A 20031115; CN 200380105953 A 20031115;
DE 60306421 T 20031115; EP 03813191 A 20031115; ES 03813191 T 20031115; FR 0215854 A 20021213; FR 0303725 W 20031115;
JP 2004559838 A 20031115; KR 20057010847 A 20031115