

Title (en)  
MANUAL PUMP

Title (de)  
MANUELLE PUMPE

Title (fr)  
POMPE MANUELLE

Publication  
**EP 3271580 A1 20180124 (FR)**

Application  
**EP 16719440 A 20160317**

Priority  
• FR 1552338 A 20150320  
• FR 2016050592 W 20160317

Abstract (en)  
[origin: WO2016151216A1] Manual pump (P) intended to be associated with a reservoir of fluid product (R), the pump (P) comprising a pump body (B) defining a sliding barrel (F) and comprising a pump chamber (C), the pump (P) comprising an outlet valve (V) and an inlet (E1) for admitting the fluid product into the pump chamber (C) from the reservoir (R), characterised in that: - the pump chamber (C) has no inlet valve, and - one part of the dose of fluid product stored in the pump chamber (C) is pumped through the outlet valve (V) to the dispensing port (O) and the other part of the dose of fluid product stored in the pump chamber (C) is pumped into the reservoir (R) through the inlet (E1).

IPC 8 full level  
**F04B 9/14** (2006.01); **B05B 11/00** (2006.01); **F04B 49/035** (2006.01)

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**B05B 11/1001** (2023.01 - US); **B05B 11/1025** (2023.01 - EP US); **B05B 11/1069** (2023.01 - EP US); **B05B 11/1094** (2023.01 - EP US); **F04B 9/14** (2013.01 - EP US); **F04B 49/03** (2013.01 - US); **F04B 49/035** (2013.01 - EP US); **B05B 15/30** (2018.01 - EP US)

Citation (search report)  
See references of WO 2016151216A1

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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**FR 3033844 A1 20160923**; **FR 3033844 B1 20180810**; BR 112017019987 A2 20180619; BR 112017019987 B1 20220830; EP 3271580 A1 20180124; US 2018093286 A1 20180405; WO 2016151216 A1 20160929

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