

Title (en)

Pump device and method for operating a pump device

Title (de)

Pumpeinrichtung sowie Verfahren zum Betreiben einer Pumpeinrichtung

Title (fr)

Dispositif de pompe et procédé de fonctionnement d'un dispositif de pompe

Publication

EP 2151280 A3 20110615 (DE)

Application

EP 09165628 A 20090716

Priority

DE 102008036976 A 20080808

Abstract (en)

[origin: EP2151280A2] The device has liquid branching pipes (20, 21), and an inlet valve (2) arranged between a liquid input pipe (6) and a pump chamber (3). An outlet valve (4) is arranged between the pump chamber and a liquid outlet pipe (7), where input- and output valves are self-closable. The liquid branching pipes stand in liquid-connection with the liquid outlet pipe and/or the pump chamber. A branch-off valve is designed as a material deformation valve, and a liquid opening is released by material deformation of elastic material. An independent claim is also included for a method for operating a pump device.

IPC 8 full level

B05B 11/00 (2006.01)

CPC (source: EP)

B05B 11/1023 (2023.01); **B05B 11/1025** (2023.01); **B05B 11/1042** (2023.01); **B05B 11/1063** (2023.01)

Citation (search report)

- [X1] US 3144867 A 19640818 - GARRISON TRUPP, et al
- [X1] US 4241853 A 19801230 - BLAKE WILLIAM S [US], et al
- [X1] FR 2862107 A1 20050513 - VALOIS SAS [FR]

Cited by

CN111491682A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2151280 A2 20100210; **EP 2151280 A3 20110615**; **EP 2151280 B1 20160706**; DE 102008036976 A1 20100211

DOCDB simple family (application)

EP 09165628 A 20090716; DE 102008036976 A 20080808