

Title (en)
CENTRIFUGAL MOTOR PUMP

Title (de)
RADIALE MOTOR-PUMPEN-EINHEIT

Title (fr)
MOTO-POMPE CENTRIFUGE

Publication
EP 3290712 A1 20180307 (EN)

Application
EP 17189555 A 20170906

Priority
IT 201600089875 A 20160906

Abstract (en)
Centrifugal motor pump (1) comprising: a first casing (2) which delimits a pumping chamber (3) and which is provided with an inlet mouth (4), an outlet mouth (5) and a first through opening (6); a motor (7) enclosed in a second casing (8) provided with a second through opening (9) facing the first through opening (6); a third casing (10) delimiting an intermediate chamber (11) interposed between the first through opening (6) and the second through opening (9) and placing them in communication with each other; a rotor (12) arranged in the pumping chamber (3); a shaft (13) arranged through the first through opening (6), the second through opening (9) and the intermediate chamber (11), wherein the shaft connects the rotor (12) to the motor (7) in order to set the former rotating and cause the liquid to flow according to a corresponding direction of flow; a recirculation duct (14) communicating at its first end (15) with the intermediate chamber (11) and at its second end (16) with the inlet mouth (4) in order to convey a liquid present in the intermediate chamber (11) towards the inlet mouth (4).

IPC 8 full level
F04D 7/04 (2006.01); **F04D 1/06** (2006.01); **F04D 13/08** (2006.01); **F04D 29/08** (2006.01); **F04D 29/10** (2006.01)

CPC (source: EP)
F04D 1/063 (2013.01); **F04D 7/04** (2013.01); **F04D 13/086** (2013.01); **F04D 29/108** (2013.01)

Citation (search report)

- [I] WO 03056185 A1 20030710 - BOGEMAR SL [ES], et al
- [A] EP 2916008 A1 20150909 - CALPEDA A SPA [IT]
- [A] FR 2500890 A1 19820903 - KLEIN SCHANZLIN & BECKER AG [DE]

Cited by
EP3879121A1; IT202000004873A1; WO2021158118A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3290712 A1 20180307; IT 201600089875 A1 20180306

DOCDB simple family (application)
EP 17189555 A 20170906; IT 201600089875 A 20160906