

Title (en)
DOUBLE EXHAUST CENTRIFUGAL PUMP

Title (de)
ZENTRIFUGALPUMPE MIT DOPPELTEM AUSLASS

Title (fr)
POMPE CENTRIFUGE A DOUBLE ECHAPPEMENT

Publication
EP 2430314 B1 20190724 (FR)

Application
EP 10727469 A 20100507

Priority
• FR 2010050876 W 20100507
• FR 0953096 A 20090511

Abstract (en)
[origin: WO2010130923A1] The invention relates to a centrifugal pump. This pump (10) comprises a centrifugal impeller (20) and a casing (50) surrounding said centrifugal impeller, wherein the centrifugal impeller comprises a main passage (24) which splits into a first passage (241) and a second passage (242) that have a common supply inlet (22) running parallel to the axis of rotation (A) of the pump, said common supply inlet (22) being the inlet of the main passage (24). The first passage (241) has a radially extending first outlet (243) opening at a first diameter with respect to the axis of rotation (A) and able to supply fluid at a first pressure, while the second passage (242) has a radially extending second outlet (244) located behind the first outlet (243) and opening at a second diameter greater than the first diameter, the second outlet (244) being able to supply fluid at a second pressure that exceeds the first pressure.

IPC 8 full level
F04D 29/041 (2006.01); **F04D 29/22** (2006.01); **F04D 29/42** (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP US)
F04D 29/0416 (2013.01 - EP US); **F04D 29/2211** (2013.01 - EP US); **F04D 29/426** (2013.01 - EP US); **F04D 29/445** (2013.01 - EP US)

Citation (examination)
• JP S59158398 A 19840907 - MITSUBISHI HEAVY IND LTD
• US 5105616 A 19920421 - BORNEMISZA TIBOR G [US]

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 SE SI SK SM TR

DOCDB simple family (publication)
FR 2945330 A1 20101112; **FR 2945330 B1 20110715**; EP 2430314 A1 20120321; EP 2430314 B1 20190724; JP 2012526944 A 20121101; RU 2011146920 A 20130620; US 2012051885 A1 20120301; WO 2010130923 A1 20101118

DOCDB simple family (application)
FR 0953096 A 20090511; EP 10727469 A 20100507; FR 2010050876 W 20100507; JP 2012510333 A 20100507; RU 2011146920 A 20100507; US 201013319390 A 20100507