

Title (en)
Self-priming centrifugal jet pump

Title (de)
Selbstansaugende Zentrifugalstrahlpumpe

Title (fr)
Pompe à jet centrifuge à amorçage automatique

Publication
EP 2037125 A2 20090318 (EN)

Application
EP 08164172 A 20080911

Priority
IT PD20070294 A 20070914

Abstract (en)
A self-priming centrifugal jet pump (10), comprising, within the pump body (11), an ejector designed to generate the suction required to prime the liquid to be pumped, the ejector comprising a Venturi duct (12), which is contiguous to the inlet (26) of the impeller (13) of the pump (10), preceded by a nozzle (14), the Venturi duct (12) and the nozzle (14) being aligned and forming between them at least one suction orifice (15), the nozzle (14) and the Venturi duct (12) lying substantially at right angles to the rotation axis (17) of the impeller (13).

IPC 8 full level
F04D 9/02 (2006.01); **F04D 9/06** (2006.01)

CPC (source: EP)
F04D 9/005 (2013.01); **F04D 9/06** (2013.01)

Citation (applicant)
• US 2380924 A 19450807 - CARPENTER FRED A
• US 2433021 A 19471223 - BERGH CHARLES J
• US 2578322 A 19511211 - WALTER SHALLENBERG
• EP 0323384 A2 19890705 - BOMBAS ELECTRICAS SA [ES]

Cited by
EP2937479A1; CN107740782A; CN116291960A; CN104895851A; CN107269544A; FR3020386A1; US9695826B1; WO2023236276A1

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2037125 A2 20090318; EP 2037125 A3 20100526; EP 2037125 B1 20110727; AT E518060 T1 20110815; ES 2369208 T3 20111128; IT PD20070294 A1 20090315

DOCDB simple family (application)
EP 08164172 A 20080911; AT 08164172 T 20080911; ES 08164172 T 20080911; IT PD20070294 A 20070914