

Title (en)

Waste water pump

Title (de)

Schmutzwasserpumpe

Title (fr)

Pompe à eaux usées

Publication

EP 2660473 B1 20161123 (DE)

Application

EP 12166789 A 20120504

Priority

EP 12166789 A 20120504

Abstract (en)

[origin: EP2660473A1] The pump has an impeller (10) including a suction port, a sealing surface (14) annularly surrounding the suction port and a bearing on a stationary seal (18). A groove (28) is formed in the sealing surface, and extends beyond a bearing-contact region of the stationary seal on the sealing surface. The groove includes an end (30) in connection with an impeller side chamber and an opposite end (32) in connection with a suction side of the impeller. A surface (34) of the seal is arranged in the impeller side chamber adjacent to the stationary seal for producing turbulences.

IPC 8 full level

F04D 7/04 (2006.01); **F04D 29/16** (2006.01)

CPC (source: EP US)

F04D 7/045 (2013.01 - EP US); **F04D 29/106** (2013.01 - US); **F04D 29/167** (2013.01 - EP US)

Cited by

EP3309404A1; RU2680903C1; US11359639B2

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

DOCDB simple family (publication)

EP 2660473 A1 20131106; EP 2660473 B1 20161123; CN 103382939 A 20131106; CN 103382939 B 20160622; US 2013294910 A1 20131107; US 9500204 B2 20161122

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EP 12166789 A 20120504; CN 201310161745 A 20130506; US 201313886479 A 20130503