

Title (en)
CENTRIFUGAL PUMP WITH A BEARING ARRANGEMENT

Title (de)
KREISELPUMPE MIT EINER LAGERANORDNUNG

Title (fr)
POMPE CENTRIFUGE AVEC SYSTEME DE PALIER

Publication
EP 1272761 B1 20060927 (EN)

Application
EP 01910257 A 20010223

Priority
• NO 0100073 W 20010223
• NO 20000912 A 20000224

Abstract (en)
[origin: WO0188380A1] A centrifugal pump capable of being coupled to a drive motor, where the pump has an impeller (3) for radial direction of flow and having a discharge edge (13) at its outer diameter, and where the pump has a radially split pump casing (15) and is provided with at least one shaft seal (2). The impeller (3), for absorption of the forces acting on the impeller (3), is supported in a bearing device advantageously consisting of two axially adjacent bearings (1, 1'), where the width of the bearings or their respective bearing raceways (12, 12'; 14, 14') forms a characteristic distance a. A centre point (4) on the discharge edge (13) of the impeller (3) has, seen axially, a position which is at a distance b from another centre point between the bearings (1, 1') and in the direction of or from the inlet end (21) of the pump, where $b \leq 2a$.

IPC 8 full level
F04D 29/04 (2006.01); **F04D 29/043** (2006.01); **F04D 29/049** (2006.01); **F04D 29/12** (2006.01); **F16C 19/16** (2006.01); **F16C 33/78** (2006.01)

CPC (source: EP KR)
F04D 29/04 (2013.01 - KR); **F04D 29/049** (2013.01 - EP); **F04D 29/126** (2013.01 - EP); **F05D 2260/6022** (2013.01 - EP)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0188380 A1 20011122; AT E340936 T1 20061015; AU 3783301 A 20011126; DE 60123410 D1 20061109; DE 60123410 T2 20070823; DK 1272761 T3 20070129; EP 1272761 A1 20030108; EP 1272761 B1 20060927; EP 1272761 B8 20061115; ES 2270985 T3 20070416; JP 2003533643 A 20031111; JP 4035326 B2 20080123; KR 100471537 B1 20050309; KR 20030009366 A 20030129; NO 20000912 D0 20000224; NO 20000912 L 20010827; NO 311105 B1 20011008

DOCDB simple family (application)
NO 0100073 W 20010223; AT 01910257 T 20010223; AU 3783301 A 20010223; DE 60123410 T 20010223; DK 01910257 T 20010223; EP 01910257 A 20010223; ES 01910257 T 20010223; JP 2001584743 A 20010223; KR 20027010861 A 20010223; NO 20000912 A 20000224