

Title (en)
Centrifugal pump unit

Title (de)
Kreispumpenaggregat

Title (fr)
Dispositif de pompe centrifuge

Publication
EP 1873399 A1 20080102 (DE)

Application
EP 06013504 A 20060629

Priority
EP 06013504 A 20060629

Abstract (en)
The pump unit has a gas separation device for separating gas from fluid to be conveyed, where the gas separation device is arranged on a suction side. The gas separating device exhibits a plumping body (2) partially arranged in a suction sided flow way of the fluid and arranged on housing side with a distance to a suction mouth (8) of a pump. The plumping body is designed as fins, which are connected with a gas separating housing (4). A partition wall (7) is designed as a rotationally symmetric disk-shaped construction unit.

Abstract (de)
Das Kreispumpenaggregat weist eine saugseitig angeordnete Einrichtung zum Abscheiden von Gas aus der zu fördernden Flüssigkeit auf. Die Gasabscheideeinrichtung ist mit einem Prallkörper (2) versehen, der zumindest teilweise im saugseitigen Strömungsweg (11) der zu fördernden Flüssigkeit liegt und der gehäuseseitig mit Abstand zum Saugmund der Pumpe angeordnet ist.

IPC 8 full level
F04D 9/00 (2006.01)

CPC (source: EP US)
F04D 9/003 (2013.01 - EP US)

Citation (applicant)
• US 4447189 A 19840508 - JENSEN NIELS D [DK], et al
• DE 3813654 A1 19891102 - LICENTIA GMBH [DE]
• DE 29718285 U1 19971211 - GRUNDFOS AS [DK]

Citation (search report)
• [X] DE 1653725 A1 19720113 - HANNING ELEKTRO WERKE
• [X] US 4447189 A 19840508 - JENSEN NIELS D [DK], et al
• [X] DE 3813654 A1 19891102 - LICENTIA GMBH [DE]
• [X] DE 29718285 U1 19971211 - GRUNDFOS AS [DK]
• [A] US 3290864 A 19661213 - HARKER JOHN H, et al
• [A] EP 1024292 A2 20000802 - WILO GMBH [DE]

Cited by
EP2180190A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1873399 A1 20080102; EP 1873399 B1 20121205; CN 101096954 A 20080102; CN 101096954 B 20110914; PL 1873399 T3 20130628; US 2008008578 A1 20080110; US 9028204 B2 20150512

DOCDB simple family (application)
EP 06013504 A 20060629; CN 200710126296 A 20070629; PL 06013504 T 20060629; US 77076307 A 20070629