

Title (en)  
CENTRIFUGAL PUMP ASSEMBLY

Title (de)  
KREISELPUMPENAGGREGAT

Title (fr)  
GROUPE POMPE CENTRIFUGE

Publication  
**EP 3596342 B1 20220112 (DE)**

Application  
**EP 17745364 A 20170803**

Priority  
• EP 17161065 A 20170315  
• EP 2017069734 W 20170803

Abstract (en)  
[origin: WO2018166639A1] The invention relates to a centrifugal pump aggregate having an electric drive motor and at least one impeller (38; 38') which is driven rotationally by said electric drive motor and is arranged in a pump housing (24; 24'), in which a first suction duct (46; 46') is configured which forms a first flow path from a first suction connector (44; 44') to the suction side of the impeller (38; 38'), wherein the pump housing (24; 24') has a receiving chamber (50; 50') which intersects the first suction duct (46; 46'), is connected to a second suction connector (58; 82; 110; 116), and in the interior of which at least one movable valve element (64; 90; 100; 128) is arranged which is connected to an actuating drive (76; 94; 105; 124) and is configured in such a way that, by way of the movement of the valve element (64; 90; 100; 128), a cross-sectional ratio can be changed between the first flow path which extends from the first suction connector (44; 44') and a second flow path which extends from the second suction connector (58; 82; 110; 116).

IPC 8 full level  
**F04D 29/42** (2006.01); **F04D 15/00** (2006.01)

CPC (source: EP US)  
**F04D 15/0022** (2013.01 - EP); **F04D 25/06** (2013.01 - US); **F04D 29/22** (2013.01 - US); **F04D 29/4293** (2013.01 - EP US);  
**F04D 15/0066** (2013.01 - EP)

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 3376052 A1 20180919**; **EP 3376052 B1 20201104**; CN 110431312 A 20191108; CN 110431312 B 20210928; EP 3596342 A1 20200122;  
EP 3596342 B1 20220112; US 2021156396 A1 20210527; WO 2018166639 A1 20180920

DOCDB simple family (application)  
**EP 17161065 A 20170315**; CN 201780088454 A 20170803; EP 17745364 A 20170803; EP 2017069734 W 20170803;  
US 201716494003 A 20170803