

Title (en)

DEVICE FOR REDUCING NOISE IN CENTRIFUGAL PUMPS

Title (de)

EINRICHTUNG ZUR GERÄUSCHREDUZIERUNG BEI KREISELPUMPEN

Title (fr)

DISPOSITIF POUR REDUIRE LE BRUIT DE POMPES CENTRIFUGES

Publication

EP 0752066 A1 19970108 (DE)

Application

EP 95913122 A 19950315

Priority

- DE 4409475 A 19940319
- EP 9500963 W 19950315

Abstract (en)

[origin: DE19509255A1] The rotary pump has at least one impeller with flow profiled surfaces at the supply channels. One flow edge (12) of the supply line (1) is aligned by angle to the rotation axis (13) of the impeller, such that when the impeller blade passes this surface there is a point of overlap between blade and flow surface. The length of an acutely angled flow surface is greater than the width of the flow line. The endpoints of the flow surfaces are displaced between 0.1 to 1.2 times the distance of an impeller blade pitch.

IPC 1-7

F04D 29/66; **F04D 29/44**; **F04D 29/42**

IPC 8 full level

F04D 29/42 (2006.01); **F04D 29/44** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP US)

F04D 29/428 (2013.01 - EP US); **F04D 29/448** (2013.01 - EP US); **F04D 29/669** (2013.01 - EP US)

Citation (search report)

See references of WO 9525895A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

DE 19509255 A1 19950921; DE 59507918 D1 20000406; EP 0752066 A1 19970108; EP 0752066 B1 20000301; JP H09510527 A 19971021; US 6017187 A 20000125; WO 9525895 A1 19950928

DOCDB simple family (application)

DE 19509255 A 19950315; DE 59507918 T 19950315; EP 9500963 W 19950315; EP 95913122 A 19950315; JP 52436195 A 19950315; US 71637896 A 19960919