

Title (en)  
Centrifugal pump rotor

Title (de)  
Kreispumpenlaufrad

Title (fr)  
Rotor pour pompe centrifuge

Publication  
**EP 1134426 A3 20020904 (DE)**

Application  
**EP 01105141 A 20010302**

Priority  
DE 10012181 A 20000313

Abstract (en)  
[origin: EP1134426A2] The pump (10) has an impeller (40), which is fixed to a drive shaft (30) in a casing (20). A disc (44) arranged concentric to the shaft has radial blades (46), which form flow channels for the fluid to be pumped with the inner wall (22a) of the casing. The radial edges of three blades have at least one bump (48), which contacts the inner wall of the casing. Preferably, the bumps are formed in one piece with the blades.

IPC 1-7  
**F04D 29/24**

IPC 8 full level  
**F04D 29/22** (2006.01); **F04D 29/24** (2006.01); **F04D 29/62** (2006.01)

CPC (source: EP US)  
**F04D 7/04** (2013.01 - EP); **F04D 29/042** (2013.01 - EP); **F04D 29/0473** (2013.01 - EP US); **F04D 29/2261** (2013.01 - EP US); **F04D 29/24** (2013.01 - EP US); **F04D 29/622** (2013.01 - EP); **F04D 29/628** (2013.01 - EP US); **F05D 2260/604** (2013.01 - EP)

Citation (search report)

- [XY] US 3711218 A 19730116 - KENNEL G, et al
- [X] US 5800120 A 19980901 - RAMSAY THOMAS W [CA]
- [Y] US 3771927 A 19731113 - SCHILLER T
- [A] US 5951244 A 19990914 - KNIGHT SR MICHAEL J [US]

Cited by  
CN112761962A; DE102010005936A1; CN103711710A

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)  
**EP 1134426 A2 20010919; EP 1134426 A3 20020904**; DE 10012181 A1 20010927; DE 10012181 C2 20020516; US 2001031202 A1 20011018; US 6551058 B2 20030422

DOCDB simple family (application)  
**EP 01105141 A 20010302**; DE 10012181 A 20000313; US 80384101 A 20010312