

Title (en)
Vortex pump.

Title (de)
Wirbelpumpe.

Title (fr)
Motopompe à tourbillon.

Publication
EP 0032348 A1 19810722 (FR)

Application
EP 80401881 A 19801229

Priority
FR 8000309 A 19800108

Abstract (en)
1. Driven whirler pump for liquid fluid, having a pump body divided into two adjacent compartments by a diaphragm (6) having a central opening for forming an input chamber (4) and an output chamber (5) provided with a turbine (11), a tangential liquid outlet tube (9) and a radial projecting guiding surface or web (12) aligned with the wall (14) on the downstream side of the bore of the liquid outlet tube (9) with respect to the rotational sense (13) of the pump turbine, characterized in that said radial projecting guiding surface or web (12) is formed in the diaphragm (6) of the pump and in that the downstream portion (16) of said radial projecting guiding surface or web with respect to the displacement sense of the general fluid flow is filled in a manner to extend the projecting end of said radial web (12) and to gradually approach the level of the latter to the level of the diaphragm surface.

Abstract (fr)
Motopompe pour fluide liquide ayant un "diaphragme" (6) séparant le corps de sa pompe en chambre d'admission (4) et chambre de refoulement (5) abritant une turbine (11). Motopompe caractérisée en ce que le diaphragme (6) de sa pompe est pourvu, sur sa face regardant la turbine (11), d'une barrette radiale saillante de guidage (12), en alignement avec la paroi (14) du côté aval, de l'alésage de la tubulure de sortie de liquide (9), par rapport au sens de rotation de cette turbine (11). Application à une motopompe à tourbillon.

IPC 1-7
F04D 29/44; **F04D 29/22**

IPC 8 full level
F04D 29/22 (2006.01); **F04D 29/44** (2006.01)

CPC (source: EP)
F04D 29/2244 (2013.01); **F04D 29/445** (2013.01)

Citation (search report)
GB 1045136 A 19661012 - BAUER RUDOLF

Cited by
US5030062A; GB2204917B; AU614524B2; GB2226364A; GB2226364B; WO8809438A1

Designated contracting state (EPC)
AT DE GB IT

DOCDB simple family (publication)
EP 0032348 A1 19810722; **EP 0032348 B1 19831109**; AT E5275 T1 19831115; DE 3065567 D1 19831215; ES 498345 A0 19811201; ES 8201274 A1 19811201; FR 2473131 A1 19810710; FR 2473131 B1 19831104

DOCDB simple family (application)
EP 80401881 A 19801229; AT 80401881 T 19801229; DE 3065567 T 19801229; ES 498345 A 19810107; FR 8000309 A 19800108