

Title (en)

Centrifugal pump with an isolating tubular air gap cap.

Title (de)

Kreiselpumpe mit einem Spaltrohrtopf.

Title (fr)

Pompe centrifuge avec chapeau tubulaire d'isolation de l'entrefer.

Publication

EP 0171514 A1 19860219 (DE)

Application

EP 85105625 A 19850508

Priority

CH 345084 A 19840716

Abstract (en)

[origin: US4648808A] Inside the sealing shroud of the centrifugal pump there is located an inner rotor driven by a drive motor, while an outer rotor which is connected to the pump impeller is located outside of the sealing shroud wall. At least the sealing shroud wall is formed of a material which is electrically non-conductive. The efficiency is improved. Materials not normally used in sealing shrouds, such as ceramics, can be used for the same and this increases the usefulness or fields of application of the pump.

Abstract (de)

Im Spaltrohrtopf (2) ist der vom Motor (10) getriebene Innenläufer (9), während der mit dem Pumpenlaufrad (5) verbundene Aussenläufer (6) ausserhalb der Topfwand (20) ist. Die Topfwand (20) ist elektrisch nicht leitend. Der Wirkungsgrad ist besser. Es können sonst nicht verwendbare Topfmateriale, wie Keramika, verwendet werden, was die Anwendbarkeit der Pumpe steigert.

IPC 1-7

F04D 13/02

IPC 8 full level

F04D 13/02 (2006.01)

CPC (source: EP US)

F04D 13/027 (2013.01 - EP US); **F05B 2260/4041** (2013.01 - EP US)

Citation (search report)

- [X] DE 1453760 A1 19690109 - FUSS UND STAHL VEREDLUNG GMBH
- [Y] GB 888514 A 19620131 - PUMPINDUSTRI AB
- [Y] DE 1943124 A1 19710304 - ELEKTROTECHNIK MASCHB A LOELL
- [Y] DE 1302473 B 19740522
- [A] US 4207485 A 19800610 - SILVER ALEXANDER [US]

Cited by

FR2630071A1; FR2733010A1; US8162630B2; WO9632592A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0171514 A1 19860219; **EP 0171514 B1 19880309**; AT E32931 T1 19880315; DE 3561834 D1 19880414; JP H0551079 B2 19930730; JP S6134391 A 19860218; US 4648808 A 19870310

DOCDB simple family (application)

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