

Title (en)
Pump for hot and corrosive fluids

Title (de)
Pumpe zur Förderung heisser, korrosiver Medien

Title (fr)
Pompe pour fluides chauds et corrosifs

Publication
EP 0702155 A3 19970108 (DE)

Application
EP 95113673 A 19950831

Priority
DE 4432551 A 19940913

Abstract (en)
[origin: CA2157843A1] The pump comprises a drive part 2 and a pump body 1, the drive shaft 4 being sealed off from the corrosive medium by a shaft seal. The shaft seal consists of a stator ring which is fitted into the pump body 1 and/or into the drive part 2 and through which the drive shaft 4 is passed while leaving a seal gap 5. One or more dry-running bearings 11 for the drive shaft 4 is/are arranged in the drive part 2. The drive part 2 also comprises a gas channel 18, which communicates in terms of flow with the seal gap 5, with a supply connection 19 and a discharge connection 20. While the pump is operating a hot gas is admitted to the gas flow channel 18 via the supply connection 19 and leaves the drive part again through the discharge connection 20. The supply pressure is set such that the static pressure of the gas in the gas flow channel 18 above the stator ring 3 is higher than the pressure of the delivery medium which partially or completely fills the pump body.

IPC 1-7
F04C 13/00; **F04C 15/00**

IPC 8 full level
F04B 15/04 (2006.01); **F04C 2/12** (2006.01); **F04C 15/00** (2006.01); **H02K 49/02** (2006.01)

CPC (source: EP US)
F04C 15/0069 (2013.01 - EP US); **F04C 15/0096** (2013.01 - EP US)

Citation (search report)

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CN104329251A; GB2426036A

Designated contracting state (EPC)
BE CH ES FR GB IT LI NL

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DE 4432551 A1 19960314; CA 2157843 A1 19960314; EP 0702155 A2 19960320; EP 0702155 A3 19970108; EP 0702155 B1 20011107; ES 2167390 T3 20020516; JP H0893639 A 19960409; US 5569024 A 19961029

DOCDB simple family (application)
DE 4432551 A 19940913; CA 2157843 A 19950908; EP 95113673 A 19950831; ES 95113673 T 19950831; JP 25448795 A 19950907; US 52388695 A 19950906