

Title (en)
GAS FRICTION VACUUM PUMP.

Title (de)
GASREIBUNGSVAKUUMPUMPE.

Title (fr)
POMPE A FRICTION A VIDE A GAZ.

Publication
EP 0640185 B1 19951115 (DE)

Application
EP 93911777 A 19930423

Priority
• DE 4216237 A 19920516
• EP 9300984 W 19930423

Abstract (en)
[origin: WO9323672A1] The invention relates to a gas friction vacuum pump (1) with at least two differently designed pump stages (3, 12; 26; 35), each comprising a rotor section (9, 27, 37) and a housing section (3, 29, 36); in order to be able to adapt the pump to various applications it is proposed to fit various input stages on the high-vacuum side and that the pump stages are releasably secured together.

IPC 1-7
F04D 19/04; **F04D 25/16**

IPC 8 full level
F04D 19/04 (2006.01); **F04D 25/16** (2006.01)

CPC (source: EP US)
F04D 19/044 (2013.01 - EP); **F04D 19/046** (2013.01 - EP US); **F04D 25/16** (2013.01 - EP US)

Cited by
EP2341251B1

Designated contracting state (EPC)
CH DE FR GB IT LI

DOCDB simple family (publication)
WO 9323672 A1 19931125; DE 4216237 A1 19931118; DE 59300970 D1 19951221; EP 0640185 A1 19950301; EP 0640185 B1 19951115; JP H07506648 A 19950720; US 5553998 A 19960910

DOCDB simple family (application)
EP 9300984 W 19930423; DE 4216237 A 19920516; DE 59300970 T 19930423; EP 93911777 A 19930423; JP 51981093 A 19930423; US 33845294 A 19941116