

Title (en)  
ROTARY VANE VACUUM PUMP

Publication  
**EP 0166807 B1 19891213 (DE)**

Application  
**EP 84111178 A 19840919**

Priority  
US 62719384 A 19840702

Abstract (en)  
[origin: US4588358A] A rotary vane evacuating pump having two series connected pumping stages is disclosed. Each pumping stage is provided as an exchangeable unit and has a housing which is detachably connected to one face of an interface flange. The housings of the pumping stages are contained in a chamber defined between the interface flange and an outer shell which is detachably mounted thereto. The chamber is filled with water surrounding and contacting the two housings. Each pumping stage is readily dismantled for the purpose of service or replacement.

IPC 1-7  
**F04C 18/344**; **F04C 23/00**; **F04C 29/04**

IPC 8 full level  
**F04C 23/00** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP US)  
**F04C 23/001** (2013.01 - EP US); **F04C 29/04** (2013.01 - EP US); **F04C 2220/10** (2013.01 - EP US)

Cited by  
WO2014169962A1; CN102472107A; EP1936198A3; DE3603809A1; EP0582185A1; US5378128A; CN105121784A; AU2013387156B2; RU2641409C2

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

DOCDB simple family (publication)  
**EP 0166807 A2 19860108**; **EP 0166807 A3 19870114**; **EP 0166807 B1 19891213**; DE 3480727 D1 19900118; DE 8427615 U1 19850117; US 4588358 A 19860513

DOCDB simple family (application)  
**EP 84111178 A 19840919**; DE 3480727 T 19840919; DE 8427615 U 19840919; US 62719384 A 19840702