

Title (en)
VACUUM PUMP

Title (de)
VAKUUUMPUMPE

Title (fr)
POMPE A VIDE

Publication
EP 0964999 B1 20020925 (DE)

Application
EP 98907961 A 19980120

Priority

- DE 19709206 A 19970306
- EP 9800288 W 19980120

Abstract (en)
[origin: DE19709206A1] The invention relates to a vacuum pump, comprising at least one pump chamber (7, 8, 23 to 26) and at least one chamber (3, 5, 27) adjoining said pump chamber. The vacuum pump is fitted with a gas ballast device in order to avoid damage being caused in the adjoining chambers by the gases being pumped, the ballast gas being delivered via the chamber adjoining the pump chamber.

IPC 1-7
F04B 37/14; F04B 25/00; F04C 29/10

IPC 8 full level
F04B 25/00 (2006.01); **F04B 37/14** (2006.01); **F04C 28/28** (2006.01)

CPC (source: EP KR US)
F04B 25/00 (2013.01 - EP US); **F04B 37/14** (2013.01 - EP KR US); **F04C 28/28** (2013.01 - EP US); **F04C 2220/50** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19709206 A1 19980910; CN 1133813 C 20040107; CN 1243563 A 20000202; DE 59805694 D1 20021031; EP 0964999 A1 19991222;
EP 0964999 B1 20020925; JP 2001513862 A 20010904; JP 4067572 B2 20080326; KR 100592161 B1 20060623; KR 20000075898 A 20001226;
US 6123516 A 20000926; WO 9839570 A1 19980911

DOCDB simple family (application)
DE 19709206 A 19970306; CN 98801692 A 19980120; DE 59805694 T 19980120; EP 9800288 W 19980120; EP 98907961 A 19980120;
JP 53809098 A 19980120; KR 19997007977 A 19990902; US 35522299 A 19990726