

Title (en)
VACUUM PUMP WITH OIL SEPARATOR

Title (de)
VAKUUMPUMPE MIT ÖLABSCHEIDER

Title (fr)
POMPE A VIDE COMPORTANT UN SEPARATEUR D'HUILE

Publication
EP 0714482 B1 19970521 (DE)

Application
EP 94926181 A 19940811

Priority
• DE 4327583 A 19930817
• EP 9402675 W 19940811

Abstract (en)
[origin: US5697771A] PCT No. PCT/EP94/02675 Sec. 371 Date Feb. 15, 1996 Sec. 102(e) Date Feb. 15, 1996 PCT Filed Aug. 11, 1994 PCT Pub. No. WO95/05540 PCT Pub. Date Feb. 23, 1995The invention relates to a vacuum pump (1) with an oil separator (42) connected downstream of its outlet (33) and with a duct (45, 46) through which the oil separated in the oil separator (42) is returned to the vacuum pump (1); to feed back the oil in a simple manner, the oil feed duct (45, 46) opens into a duct (47) that supplies gas ballast to the pump (1).

IPC 1-7
F04C 27/02; F04C 23/00; F04C 29/08

IPC 8 full level
F04C 25/02 (2006.01); **F04C 23/00** (2006.01); **F04C 27/02** (2006.01); **F04C 28/28** (2006.01); **F04C 29/02** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP KR US)
F04C 23/001 (2013.01 - EP US); **F04C 27/02** (2013.01 - EP KR US); **F04C 28/28** (2013.01 - EP US); **F04C 29/026** (2013.01 - EP US); **F04C 29/122** (2013.01 - EP US); **F04C 2220/50** (2013.01 - EP US); **Y10S 418/01** (2013.01 - EP US)

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

DOCDB simple family (publication)
US 5697771 A 19971216; DE 4327583 A1 19950223; DE 59402844 D1 19970626; EP 0714482 A1 19960605; EP 0714482 B1 19970521; EP 0714482 B2 20021009; JP H09503566 A 19970408; KR 960704159 A 19960831; WO 9505540 A1 19950223

DOCDB simple family (application)
US 59622296 A 19960215; DE 4327583 A 19930817; DE 59402844 T 19940811; EP 9402675 W 19940811; EP 94926181 A 19940811; JP 50674294 A 19940811; KR 19960700780 A 19960216