

Title (en)
Vacuum pump

Title (de)
Vakuumpumpe

Title (fr)
Pompe à vide

Publication
EP 2378063 A3 20130501 (DE)

Application
EP 11002484 A 20110325

Priority
DE 102010014884 A 20100414

Abstract (en)
[origin: EP2378063A2] The vacuum pump has a rotary piston pump (4) and a rotary screw pump (6) in the flow direction of the air. Two parallel shafts (5',5'') are provided in a common housing (1) for both pumps. The rotary piston (4') of the rotary piston pump and a screw (6') of the screw pump are arranged on the shaft and another rotary piston (4'') of the rotary piston pump and another screw (6'') of the screw pump are arranged on the pump.

IPC 8 full level
F01C 17/00 (2006.01); **F04C 18/12** (2006.01); **F04C 18/16** (2006.01); **F04C 23/00** (2006.01); **F04C 25/02** (2006.01); **F04C 28/24** (2006.01); **F04C 28/26** (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP)
F01C 17/00 (2013.01); **F04C 18/12** (2013.01); **F04C 18/16** (2013.01); **F04C 23/005** (2013.01); **F04C 25/02** (2013.01); **F04C 28/24** (2013.01); **F04C 28/265** (2013.01); **F04C 29/0078** (2013.01); **F04C 2240/30** (2013.01); **F04C 2240/60** (2013.01)

Citation (search report)

- [X] EP 0965758 A2 19991222 - BOC GROUP PLC [GB]
- [X] EP 1130264 A2 20010905 - BOC GROUP PLC [GB]
- [X] EP 1643129 A1 20060405 - LOT VACUUM CO LTD [KR]
- [X] US 7611340 B2 20091103 - HWANG TAE-KYONG [KR], et al
- [A] WO 2005038255 A2 20050428 - EBARA CORP [JP], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2378063 A2 20111019; EP 2378063 A3 20130501; DE 102010014884 A1 20111020

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