

Title (en)
Vacuum pump

Title (de)
Vakuumpumpe

Title (fr)
Pompe à vide

Publication
EP 2631488 A3 20160817 (DE)

Application
EP 12188584 A 20121015

Priority
DE 102012003680 A 20120223

Abstract (en)
[origin: EP2631488A2] The vacuum pump (1) has a waking pumping section (30) which comprises a waking rotor (300). A gas stream inlet pressure stage (40) comprises a rotor component (400). The rotor component is connected with the waking rotor and is arranged at the axial end (350) of the waking rotor. The axial end (352) of the waking rotor is connected with the shat (10). The gas stream inlet pressure stage has an annular element having pumping structure, which is connected with a case (304) of the waking rotor.

IPC 8 full level
F04D 19/04 (2006.01); **F04D 17/16** (2006.01); **F04D 23/00** (2006.01)

CPC (source: EP US)
F04D 3/00 (2013.01 - US); **F04D 17/168** (2013.01 - EP US); **F04D 19/044** (2013.01 - EP); **F04D 19/046** (2013.01 - EP US); **F04D 23/008** (2013.01 - EP US)

Citation (search report)

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- [XA] JP 2006090263 A 20060406 - BOC EDWARDS KK
- [XA] DE 60319585 T2 20090326 - EDWARDS LTD [GB]
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- [XA] JP H02264196 A 19901026 - HITACHI LTD
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Cited by
EP2813710A3; EP3034882A3; EP3267040A1; EP2813710A2

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)
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DOCDB simple family (application)
EP 12188584 A 20121015; DE 102012003680 A 20120223; JP 2013022216 A 20130207; US 201313766918 A 20130214