

Title (en)
Vacuum pump

Title (de)
Vakuumpumpe

Title (fr)
Pompe à vide

Publication
EP 2251547 B1 20160406 (DE)

Application
EP 10004024 A 20100416

Priority
DE 102009021620 A 20090516

Abstract (en)
[origin: EP2251547A2] The pump (1) has a gas inlet (2), a gas outlet (3) and a side channel pump stage (6) that includes a rotatable blade wheel (600) with an edge. The wheel has a blade (602) with partial blades, which are arranged at an edge of the wheel. Angle between the partial blades and movement direction of the blade is smaller than 90 degrees. The blade wheel comprises another blade, and a partition wall is arranged between the blades in a direction of circumference of the blade wheel. The former blade comprises a chamfer in a rear side.

IPC 8 full level
F04D 17/16 (2006.01); **F04D 19/04** (2006.01); **F04D 23/00** (2006.01); **F04D 29/28** (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP)
F04D 17/168 (2013.01); **F04D 19/044** (2013.01); **F04D 19/046** (2013.01); **F04D 23/008** (2013.01); **F04D 29/28** (2013.01); **F04D 29/522** (2013.01)

Citation (examination)
DE 2405890 A1 19750814 - SIEMENS AG

Cited by
EP2933497A3; DE102011112689B4; US10337517B2; EP2565464B1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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DE 102009021620 B4 20210729; JP 2010265894 A 20101125; JP 5680334 B2 20150304

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EP 10004024 A 20100416; DE 102009021620 A 20090516; JP 2010109856 A 20100512