

Title (en)
RAPIDLY ROTATING VACUUM PUMP

Title (de)
SCHNELLDREHENDE VAKUUMPUMPE

Title (fr)
POMPE À VIDE À ROTATION RAPIDE

Publication
EP 2118492 B1 20101117 (DE)

Application
EP 08716880 A 20080215

Priority
• EP 2008051874 W 20080215
• DE 102007009080 A 20070224

Abstract (en)
[origin: US2010322798A1] A rapidly rotating vacuum pump includes: a magnet-mounted rotor driven by an electric drive motor with a predetermined constant nominal rotational frequency (f_{nom}). The rotor and a rotor bearing are embodied in such a way that the bending-critical counter-rotational resonance frequency (f_{crit}) is between 3% and a maximum of 30% above the nominal rotational frequency (f_{nom}), thereby preventing an overspeed.

IPC 8 full level
F04D 19/04 (2006.01); **F04D 29/058** (2006.01); **F04D 29/06** (2006.01)

CPC (source: EP KR US)
F04D 19/04 (2013.01 - KR); **F04D 19/042** (2013.01 - EP US); **F04D 29/058** (2013.01 - EP US); **F04D 29/06** (2013.01 - KR);
F04D 29/58 (2013.01 - KR); **F04D 29/668** (2013.01 - EP US)

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DOCDB simple family (publication)
US 2010322798 A1 20101223; AT E488700 T1 20101215; CN 101617125 A 20091230; CN 101617125 B 20110608;
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JP 2010519453 A 20100603; JP 5498171 B2 20140521; KR 20090113341 A 20091029; WO 2008101876 A1 20080828

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