

Title (en)
VACUUM PUMP

Title (de)
VAKUUMPUMPE

Title (fr)
POMPE A VIDE

Publication
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Application
EP 03779691 A 20031112

Priority
• DE 0303747 W 20031112
• DE 10252769 A 20021113

Abstract (en)
[origin: WO2004044431A2] The invention concerns a vacuum pump designed in particular for motor vehicle braking power amplifiers, the pump being normally driven by an internal combustion engine of the vehicle, in a (front) rotational direction, the pump including a device for limiting damage resulting from rotations in the opposite direction.

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F04C 18/344

IPC 8 full level
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Citation (search report)
See references of WO 2004044431A2

Citation (third parties)
Third party :
• JP H0749094 A 19950221 - HITACHI LTD
• JP H0749094 K1
• JP 2000205159 A 20000725 - HITACHI LTD, et al
• JP 2000205159 K1

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WO 2004044431 A2 20040527; **WO 2004044431 A3 20040916**; AU 2003287863 A1 20040603; AU 2003287863 A8 20040603;
DE 10393279 D2 20050602; EP 1563190 A2 20050817; EP 1890040 A2 20080220; EP 1890040 A3 20080227; EP 1890040 B1 20120627

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