

Title (en)
VACUUM PUMP

Title (de)
VAKUUMPUMPE

Title (fr)
POMPE À VIDE

Publication
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Application
EP 09814079 A 20090921

Priority
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Abstract (en)
[origin: WO2010031359A1] A vacuum pump comprises an actuator (20) with an actuating shaft (201), a mounting base (21) with a first side being attached to the actuator (20), a pumping device (10) having a pumping ring (28) being attached to a second side of the mounting base opposite to the first side, and a sound-proof cap (34) being attached to an end face of the pumping ring (28) and the pumping device (10) being driven by the actuating shaft penetrating through the mounting base (21). The end face of the pumping ring (28) in the pumping device (10) is covered by a first base plate (31) with a hollow dampening member (33) interposed between an inner surface of the sound-proof cap (34) and a side of the first base plate (31) facing thereto, dividing a space encircled therein into an inner dampening chamber (36) and an outer dampening chamber (37) communicating with each other, the mounting base (21) is formed with an air-intake column (211) for drawing in air into the pumping device (10), the pumping ring (28) is formed with an air discharge port (282), the inner dampening chamber (36) is communicated with the pumping device (10) whereas the outer dampening chamber (37) is communicated with the air discharge port (282). With the vacuum pump, the noise during operation can be reduced greatly, and the heat of the pumped air can be dissipated efficiently.

IPC 8 full level
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Citation (search report)
• [YD] US 6491505 B1 20021210 - HUESER THEODOR [DE], et al
• [Y] JP H11210660 A 19990803 - MITSUBISHI ELECTRIC CORP
• [Y] DE 4007371 A1 19900913 - BRASIL COMPRESSORES SA [BR]
• [Y] DE 4239575 A1 19940526 - HELLA KG HUECK & CO [DE]
• [Y] US 4580949 A 19860408 - MARUYAMA TERUO [JP], et al
• See references of WO 2010031359A1

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