

Title (en)
VACUUM PUMP

Title (de)
VAKUUMPUMPE

Title (fr)
POMPE À VIDE

Publication
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Application
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Priority
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Abstract (en)
[origin: JP2017082760A] PROBLEM TO BE SOLVED: To cause a large temperature difference to be assured as much as possible between a housing portion of a suction side of a vacuum pump, in particular a turbo molecular pump and its opposite side housing portion under a low cost as much as possible and a low energy consumption.SOLUTION: This invention relates to a vacuum pump 10, in particular, a turbo molecular pump and its feature consists in the fact that it has a housing 16, a stator and a rotor having a rotor shaft, this rotor shaft is supported by a first supporting part arranged at a suction side area of the housing 16 and another supporting part arranged at an area opposite to the housing and in this case a portion 70 opposite to the suction side of the housing 16 is provided with a plurality of material vacant locations 66, 68 in order to increase thermal resistance between the suction side housing portion and a housing portion including another supporting part and they are arranged within the housing 16 to generate thermal flow passes 72 extending in a labyrinth manner under a plurality of directional changes.SELECTED DRAWING: Figure 2

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