

Title (en)
Vacuum pump with pump rotor bearings on a single side

Title (de)
Vakuumpumpe mit einseitiger Lagerung der Pumpenrotoren

Title (fr)
Pompe à vide avec des paliers disposés à un côté

Publication
EP 2532895 B1 20140226 (DE)

Application
EP 11004566 A 20110606

Priority
EP 11004566 A 20110606

Abstract (en)
[origin: EP2532895A1] The pump i.e. screw pump (1), has a motor stator (12) with windings surrounding two magnetized cylinders (11, 11') and producing magnetic fields such that the cylinders and rotor shafts (6, 6') rotate synchronously along opposite directions. A bearing (13) i.e. fixed bearing, of the shafts is provided on a drive part (3). The bearing is not provided on a side of a suction chamber (7'') remote from the drive part. A pressure side of a screw pump assembly (2) rests on the side of the chamber turned toward the drive part. The bearing and the drive part stay under atmospheric pressure.

IPC 8 full level
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CPC (source: EP)
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Cited by
CN106050664A; DE102016211260A1; CN114483576A; CN107786051A; CN114033678A; CN106151031A; CN109415938A; EP3499040A1; US11078912B2; WO2018024050A1; EP2995922A1; JP2018520304A; CN111946616A; US2023071320A1; WO2017012988A3; WO2021160677A1; EP2924293B1

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