

Title (en)
VACUUM DEVICE HAVING A SHAFT SEAL

Title (de)
VAKUUMGERÄT MIT WELLENDICHTUNG

Title (fr)
APPAREIL À VIDE AVEC JOINT D'ARBRE

Publication
EP 3396171 B1 20211110 (DE)

Application
EP 17168193 A 20170426

Priority
EP 17168193 A 20170426

Abstract (en)
[origin: JP2018184955A] PROBLEM TO BE SOLVED: To provide a vacuum apparatus having a compact seal device.SOLUTION: A seal device (21) has a rotor element (27), and the rotor element is non-rotatably connected to a shaft (13). The seal device (21) has a first stator element (23), and the stator element is non-rotatably arranged. At that time, a first gap having an entrance opening is formed between the first stator element (23) and the rotor element (27), and the entrance opening is opened toward a space containing a lubricant. The first gap has an exit opening opposite to the entrance opening, and the exit opening is connected to a first expansion space. The first expansion space has a larger cross-sectional area than that of the first gap and is formed by wall portions of the rotor element (27) and the first stator element (23). At that time, the first expansion space is connected to a lubricant sump.SELECTED DRAWING: Figure 1

IPC 8 full level
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