

Title (en)
USE OF A SYNTHETIC OIL IN A VACUUM PUMP AND VACUUM PUMP

Title (de)
VERWENDUNG EINES SYNTHETISCHEN ÖLS IN EINER VAKUUMPUMPE UND VAKUUMPUMPE

Title (fr)
UTILISATION D'UNE HUILE SYNTHÉTIQUE DANS UNE POMPE À VIDE ET POMPE À VIDE

Publication
EP 3650702 B1 20200916 (DE)

Application
EP 18205646 A 20181112

Priority
EP 18205646 A 20181112

Abstract (en)
[origin: JP2020097925A] To provide a vacuum pump, in particular, a turbo molecular pump capable of transporting a sufficient amount of a synthetic oil for lubricating a rotation supporting portion, not requiring additional installation of an oil pump, improving performance, and not significantly increasing costs.SOLUTION: A synthetic oil having a kinematic viscosity in a range of 4.5-6.5 mm/s at 100°C is used as a working medium of a vacuum pump, the vacuum pump has a working medium storage portion for storing the synthetic oil, and a rotation supporting portion of the vacuum pump is lubricated by the synthetic oil by supplying the synthetic oil to the rotation supporting portion.SELECTED DRAWING: Figure 1

IPC 8 full level
F04D 19/04 (2006.01); **F04D 29/063** (2006.01)

CPC (source: EP)
F04D 19/04 (2013.01); **F04D 19/042** (2013.01); **F04D 29/063** (2013.01)

Cited by
EP4151860A2; EP4390145A2; EP4390144A2

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