

Title (en)
COMPRESSOR DRIVEABLE BY AN ELECTRIC MOTOR

Title (de)
VERDICHTER MIT ELEKTROMOTORISCHEM ANTRIEB

Title (fr)
COMPRESSEUR COMMANDE PAR MOTEUR ELECTRIQUE

Publication
EP 1404974 A1 20040407 (EN)

Application
EP 01954021 A 20010706

Priority
EP 0107790 W 20010706

Abstract (en)
[origin: WO03004878A1] Electric motor driveable compressor (1), in which the electric motor includes a rotor with rotor shaft (20), which acts in cooperation with a stator (50) provided in the motor housing (52, 56, 58, 60), the rotor shaft (20) being mounted on the motor housing (56, 58, 60) via at least two bearings (46) and connected fixed against rotation with the compressor wheel (10) at an axial receiving segment (30), wherein the rotating components, comprised essentially of the rotor with rotor shaft (20) and compressor wheel (10), are so designed, that their first critical bending fundamental frequency w_1 lies above the maximal operationally occurring rotation speed n_{max} .

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F04D 25/06; F04D 29/66

IPC 8 full level
F04D 29/053 (2006.01); **F04D 25/06** (2006.01); **F04D 29/28** (2006.01); **F04D 29/66** (2006.01); **H02K 7/14** (2006.01)

CPC (source: EP US)
F04D 25/06 (2013.01 - EP US); **F04D 29/668** (2013.01 - EP US)

Citation (search report)
See references of WO 03004878A1

Cited by
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