

Title (en)

Bearing housing of a turbocharger for an internal combustion engine

Title (de)

Lagergehäuse eines Abgasturboladers für eine Brennkraftmaschine

Title (fr)

Logement de palier d'un turbocompresseur pour moteur à combustion interne

Publication

EP 1264965 A3 20041006 (DE)

Application

EP 02009633 A 20020427

Priority

DE 10121920 A 20010505

Abstract (en)

[origin: DE10121920A1] The turbo charger has a compressor stage, bearing cage and turbine stage with the compressor and turbine rotor mounted on a common rotor shaft. A ventilation system is formed by a ring chamber (10) inside the bearing cage (4) and having a volume sufficient to completely separate the oil and air. The bearing cage has an oil chamber (9) for holding the hydrodynamic bearing of the rotor shaft (7) and surrounded coaxially at least in part by the ring chamber to ventilate the lubricating oil.

IPC 1-7

F01D 25/18; F01M 11/08; F02B 39/14

IPC 8 full level

F01D 25/12 (2006.01); **F01D 25/14** (2006.01); **F01D 25/16** (2006.01); **F01D 25/18** (2006.01); **F02B 39/00** (2006.01); **F02B 39/14** (2006.01); **F01M 13/04** (2006.01)

CPC (source: EP)

F01D 25/125 (2013.01); **F01D 25/14** (2013.01); **F01D 25/16** (2013.01); **F01D 25/18** (2013.01); **F02B 39/14** (2013.01); **F01M 2013/026** (2013.01); **F01M 2013/027** (2013.01); **F01M 2013/0422** (2013.01); **F05D 2220/40** (2013.01)

Citation (search report)

- [A] DE 19925773 A1 20001207 - ASEA BROWN BOVERI [CH]
- [A] US 4752193 A 19880621 - HOERLER HANSULRICH [CH]
- [A] DE 2209909 A1 19731025 - PORSCHE AG
- [A] DE 19640647 A1 19980409 - ASEA BROWN BOVERI [CH]
- [A] DE 1476851 A1 19691204 - PRVNI BRNENSKA STROJIRNA ZD Y
- [A] SU 909247 A1 19820228 - CH G SOYUZNOGO NI TRAKTORNOGO [SU]
- [A] US 2822974 A 19580211 - ALFRED MUELLER
- [A] US 6017184 A 20000125 - AGUILAR SCOTT GROVER [US], et al

Cited by

CN114215638A; DE102007030277A1; CN103459801A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

DE 10121920 A1 20021114; **DE 10121920 C2 20030515**; EP 1264965 A2 20021211; EP 1264965 A3 20041006; JP 2002364376 A 20021218; JP 4099004 B2 20080611

DOCDB simple family (application)

DE 10121920 A 20010505; EP 02009633 A 20020427; JP 2002125204 A 20020426