

Title (en)

Turbocharger system and method of controlling heat transfer.

Title (de)

Geregeltes Wärmeübertragungssystem für einen Turbolader.

Title (fr)

Système de transfert de chaleur contrôlé pour une turbosoufflante.

Publication

EP 0186389 A1 19860702 (EN)

Application

EP 85309041 A 19851212

Priority

US 68153184 A 19841214

Abstract (en)

A turbocharger system including turbine housing (28) and compressor housing (34) sections which are connected by a centre housing section (14). The centre housing section journals a shaft (20) carrying a compressor wheel (24) and a turbine wheel (22) rotatable in the respective housing sections. The centre housing section also defines a closed cavity (50) captively receiving a material (52) which both conducts heat and changes phase during hot soak of the turbocharger following engine shutdown to control bearing temperatures at the shaft (20).

IPC 1-7

F01D 25/12; **F01P 9/00**

IPC 8 full level

G09F 13/00 (2006.01); **F01D 25/12** (2006.01); **F01P 9/00** (2006.01); **G09F 13/18** (2006.01); **F02B 1/04** (2006.01)

CPC (source: EP)

F01D 25/125 (2013.01); **F01P 9/00** (2013.01); **F01P 2009/005** (2013.01); **F02B 1/04** (2013.01); **F05D 2220/40** (2013.01); **F05D 2260/207** (2013.01)

Citation (search report)

- [X] DE 922093 C 19550107 - ROBER COMPANY LTD
- [XP] DE 3430146 A1 19850314 - HITACHI LTD [JP]
- [A] FR 996476 A 19511219 - CEM COMP ELECTRO MEC

Cited by

EP0264298A3; EP1398465A1; EP0921344A1; CN102207187A; CN113260772A; US11946380B2; WO2020127800A3

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0186389 A1 19860702; BR 8505968 A 19860819; JP S61145587 A 19860703

DOCDB simple family (application)

EP 85309041 A 19851212; BR 8505968 A 19851128; JP 27807885 A 19851212