

Title (en)
PLAIN BEARING FOR TURBOCHARGER SHAFT

Title (de)
GLEITLAGER FÜR EINE WELLE EINES ABGASTURBOLADERS

Title (fr)
PALIER LISSE POUR ARBRE DE TURBOCOMPRESSEUR

Publication
EP 1554477 A2 20050720 (DE)

Application
EP 03792364 A 20030818

Priority
• DE 10238415 A 20020822
• EP 0309139 W 20030818

Abstract (en)
[origin: WO2004018843A2] The invention concerns a plain bearing for an internal combustion engine turbocharger shaft (10), in particular in a motor vehicle. Said bearing comprises a cylindrical bearing bush (16) provided with an axial bore (18) for receiving the turbocharger shaft. In said bore (18), each axial end of the cylindrical bearing bush (16) comprises a first plain bearing surface (22) for radially housing the turbocharger shaft (10), and each front axial surface of the cylindrical bush bearing (16) comprises a second plain bearing surface for axially housing the turbocharger shaft (10). In an axial section (20) between the plain bearing first surfaces (22), the bore (18) is designed so as to allow a gap between one wall of said bore (18) and the turbocharger shaft (10). In the zone of each first plain bearing surface (22), the outer periphery of the cylindrical bush bearing (16) comprises a lubricant supply in the form of an annular groove (30), first orifices (32) being arranged and shaped so as to form a lubricant duct connection between the annular groove (30) and the corresponding first plain bearing surface (22), and second orifices (34) being arranged and shaped so as to form a lubricant duct connection between the annular groove (30) and the corresponding second plain bearing surface (24).

IPC 1-7
F02C 6/12; **F01D 25/16**; **F01D 25/18**

IPC 8 full level
F01D 25/16 (2006.01); **F01D 25/18** (2006.01)

CPC (source: EP)
F01D 25/166 (2013.01); **F01D 25/186** (2013.01); **F16C 17/10** (2013.01); **F16C 33/1045** (2013.01); **F16C 17/18** (2013.01); **F16C 2360/24** (2013.01)

Citation (search report)
See references of WO 2004018843A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 10238415 A1 20040304; **DE 10238415 B4 20160811**; EP 1554477 A2 20050720; WO 2004018843 A2 20040304;
WO 2004018843 A3 20040513

DOCDB simple family (application)
DE 10238415 A 20020822; EP 0309139 W 20030818; EP 03792364 A 20030818