

Title (en)
HOUSING FASTENING METHOD

Title (de)
GEHÄUSEBEFESTIGUNGSVERFAHREN

Title (fr)
PROCÉDÉ DE FIXATION DE CARTER

Publication
EP 2233719 A1 20100929 (EN)

Application
EP 08791296 A 20080717

Priority
• JP 2008062942 W 20080717
• JP 2008009156 A 20080118

Abstract (en)
An object of the present invention is to provide, by contriving a housing structure, a housing fastening method and turbocharger capable of keeping down a reduction in fastening force applied by a G-coupling even when housings are exposed to high temperature. The present invention provides a turbocharger comprising a turbine 1 including a bladed rotor 1a rotated by a fluid supplied thereto, a compressor 2 including an O impeller 2a for drawing in air, connected with the bladed rotor 1a by a rotating shaft 3a, a turbine housing 1b constituting an outer shape of the turbine 1, and a bearing housing 3 rotatably supporting the rotating shaft 3a, a projecting portion 3b of the bearing housing 3 being inserted in a recessed portion 1c of the turbine housing 1b such that an end face 3c of the projecting portion 3b butts against a step portion 1d of the recessed portion 1c serving as a stopper face, a flange portion 1e around the recessed portion 1c and a flange portion 3d around the projecting portion 3b being fastened together by an annular fastener positioned outside, wherein the shapes of the recessed portion 1c and the projecting portion 3b are determined by regulating the axial position of the stopper face of the step portion 1d.

IPC 8 full level
F02B 39/00 (2006.01)

CPC (source: EP US)
F01D 25/243 (2013.01 - EP US); **F02B 37/00** (2013.01 - EP US); **F02B 39/00** (2013.01 - EP US); **F05D 2220/40** (2013.01 - EP US); **F05D 2230/642** (2013.01 - EP US); **F05D 2260/20** (2013.01 - EP US); **F05D 2260/39** (2013.01 - EP US)

Cited by
DE102013111562A1; EP3660283A1; CN111237046A; US11300009B2; US11002151B2; US11035395B2; WO2019011464A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2233719 A1 20100929; **EP 2233719 A4 20170726**; CN 101918692 A 20101215; CN 101918692 B 20130116; JP 2009167971 A 20090730; KR 20100091259 A 20100818; US 2010296925 A1 20101125; WO 2009090768 A1 20090723

DOCDB simple family (application)
EP 08791296 A 20080717; CN 200880125069 A 20080717; JP 2008009156 A 20080118; JP 2008062942 W 20080717; KR 20107015645 A 20080717; US 86346308 A 20080717