

Title (en)
Turbocharger with variable geometry turbine

Title (de)
Turbolader mit variabler Turbinengeometrie

Title (fr)
Turbocompresseur à géométrie variable

Publication
EP 1676980 B1 20151014 (DE)

Application
EP 04030888 A 20041228

Priority
EP 04030888 A 20041228

Abstract (en)
[origin: EP1676980A1] The turbocharger has a vane bearing ring assembly (1) with a vane bearing ring and a disk (3) fixed to the vane bearing ring for creating a flow channel (4). A support pin is connected with an end of the vane bearing ring which is welded with an end of the disk. The disk includes a recess per support pin for a support pin end that is to be welded with the bearing ring, where the recess is surrounded by a heat throttle. An independent claim is also included for a method for producing a vane bearing ring assembly.

IPC 8 full level
F01D 17/16 (2006.01); **B23K 13/01** (2006.01)

CPC (source: EP KR US)
F01D 17/04 (2013.01 - KR); **F01D 17/165** (2013.01 - EP US); **F02B 37/22** (2013.01 - KR); **F05D 2220/40** (2013.01 - EP US); **F05D 2230/30** (2013.01 - EP US); **F05D 2260/231** (2013.01 - EP US)

Cited by
DE102008039093A1; DE102019217316A1; EP2093379A3; US7918023B2; US8747059B2; WO2007093406A1; WO2009092635A3

Designated contracting state (EPC)
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EP 1676980 A1 20060705; EP 1676980 B1 20151014; CN 100478546 C 20090415; CN 1796729 A 20060705; JP 2006189041 A 20060720; JP 4578394 B2 20101110; KR 101172834 B1 20120810; KR 20060076206 A 20060704; US 2006140751 A1 20060629; US 7507067 B2 20090324

DOCDB simple family (application)
EP 04030888 A 20041228; CN 200510134046 A 20051227; JP 2005348934 A 20051202; KR 20050124596 A 20051216; US 32130005 A 20051228