

Title (en)
Variable geometry turbocharger

Title (de)
Turbolader mit variabler Geometrie

Title (fr)
Turbocompresseur à géométrie variable

Publication
EP 1674668 B1 20151014 (EN)

Application
EP 05028189 A 20051222

Priority
JP 2004373934 A 20041224

Abstract (en)
[origin: EP1674668A2] A variable geometry turbocharger 1 includes a housing 201; and a link mechanism 202, provided in the housing 201, which controls the orientation of vanes 42 for controlling the flow of exhaust gas. The housing 201 includes a turbine-housing swirl chamber 5 for supplying the exhaust gas to a turbine; and a link chamber 6 that houses the link mechanism 202. A communication hole 3, which provides communication between the turbine-housing swirl chamber 5 and the link chamber 6, is formed in the housing 201.

IPC 8 full level
F01D 17/16 (2006.01); **F02C 6/12** (2006.01)

CPC (source: EP)
F01D 17/165 (2013.01); **F02B 37/24** (2013.01); **F05D 2220/40** (2013.01); **F05D 2260/6022** (2013.01)

Citation (opposition)
Opponent : **Mahle**
• WO 2004063535 A1 20040729 - HONEYWELL INT INC [US], et al
• WO 0169045 A1 20010920 - ALLIED SIGNAL INC [US]
• "Beweismaterial VTG Entwässerungsbohrung", BOSCH MAIN TURBO SYSTEMS, 1 July 2016 (2016-07-01), pages 1 - 14, XP055295558

Cited by
CN104024582A; EP2881561A1; CN108779706A; US11585266B2; US11131237B2; WO2013064875A1; US7908858B2

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1674668 A2 20060628; EP 1674668 A3 20120307; EP 1674668 B1 20151014; JP 2006177318 A 20060706; JP 4483571 B2 20100616

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EP 05028189 A 20051222; JP 2004373934 A 20041224