

Title (en)

Variable guide vane system for the turbine of a turbocharger

Title (de)

Verstellbarer Leitapparat für die Abgasturbine eines Turboladers

Title (fr)

Système d'aubes de guidage variables pour la turbine d'une turbosoufflante

Publication

EP 1111196 B1 20040428 (DE)

Application

EP 00106218 A 20000322

Priority

DE 19961613 A 19991221

Abstract (en)

[origin: EP1111196A2] The device has a rotor wheel in a housing enclosed by at least one flow channel with an annular nozzle opening onto the rotor wheel and at least one variable control grid with control blades and grid channels. The effective annular nozzle flow cross-section is adjustable using a grid adjuster. An adjuster (14,15) is used to vary the width of the gap between the control grid (11) and the enclosing housing wall parts (10) between maximum and null. Independent claims are also included for the following: an adjustable control device for a turbocharger's exhaust gas turbine.

IPC 1-7

F01D 17/16; F02C 6/12

IPC 8 full level

F01D 11/00 (2006.01); **F01D 17/16** (2006.01); **F02C 6/12** (2006.01)

CPC (source: EP US)

F01D 11/00 (2013.01 - EP US); **F01D 17/16** (2013.01 - EP US); **F01D 17/165** (2013.01 - EP US)

Cited by

CN102713198A; EP2037085A1; FR2921100A1; EP3798419A1; DE102019125823A1; US8197190B2; ITCO20110038A1; JP2014528044A; DE102014214915B3; EP4361407A1; WO2013045514A1; US9988927B2; DE102011121394A1; DE102019125823B4

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