

Title (en)

Exhaust gas turbocharger for a combustion engine

Title (de)

Abgasturbolader für eine Verbrennungskraftmaschine

Title (fr)

Turbosoufflante de gaz d'échappement pour un moteur à combustion interne

Publication

**EP 2574795 B1 20191127 (DE)**

Application

**EP 12179994 A 20120810**

Priority

DE 102011053954 A 20110927

Abstract (en)

[origin: EP2574795A2] The turbocharger has a compressor (12) which comprises a compressor wheel (14) arranged with a diffuser in a compressor housing (30). A turbine (10) comprises a turbine wheel in a turbine housing (18). A bearing housing (24) is provided, in which a shaft is mounted. The shaft connects the compressor wheel with the turbine wheel. A rear wall of the diffuser is cooled with cooling agent. The rear wall is directed to the bearing housing. A closed annular cooling agent channel is formed on the rear wall. The cooling agent channel extends around the entire circumference of the diffuser.

IPC 8 full level

**F01D 25/12** (2006.01); **F02B 39/00** (2006.01); **F04D 29/04** (2006.01); **F04D 29/056** (2006.01); **F04D 29/44** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)

**F01D 25/125** (2013.01); **F02B 39/005** (2013.01); **F04D 29/04** (2013.01); **F04D 29/056** (2013.01); **F04D 29/441** (2013.01); **F04D 29/5826** (2013.01); **F04D 29/584** (2013.01); **F05D 2220/40** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2574795 A2 20130403**; **EP 2574795 A3 20180502**; **EP 2574795 B1 20191127**; DE 102011053954 A1 20130328;  
DE 102011053954 B4 20161103

DOCDB simple family (application)

**EP 12179994 A 20120810**; DE 102011053954 A 20110927