

Title (en)

Supercharger for a combustion motor, heat exchanger

Title (de)

Vorrichtung zur Ladeluftverdichtung für einen Verbrennungsmotor, Wärmetauscher

Title (fr)

Dispositif pour la compression de l'air de suralimentation pour un moteur à combustion interne, échangeur thermique

Publication

EP 1832754 A3 20140402 (DE)

Application

EP 07003551 A 20070221

Priority

DE 10611062 A 20060308

Abstract (en)

[origin: EP1832754A2] The compressor includes segments (6) to cool air charged to the engine, within its casing (2). The segments have channels (7), through which a coolant flows. Tips of the segments are designed to reduce resistance to airflow. Numbers of segments are arranged with spacing between them. The compressor casing is a spiral housing with a rectangular connecting flange outlet (9). The rotary impeller (5) of the compressor is driven by a turbine. A heat exchanger cools the air charged, and is mounted at the flange, or within the casing.

IPC 8 full level

F04D 29/44 (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)

F04D 29/444 (2013.01); **F04D 29/5826** (2013.01); **F04D 29/584** (2013.01); **F05D 2220/40** (2013.01); **F05D 2250/52** (2013.01)

Citation (search report)

- [X] EP 1191206 A2 20020327 - CATERPILLAR INC [US]
- [X] US 2373713 A 19450417 - SHOULTS DAVID R
- [X] GB 1210185 A 19701028 - SAURER AG ADOLPH [CH]
- [X] US 2384251 A 19450904 - HILL HENRY C

Cited by

WO2017187046A1; CN104279050A; DE102014214226A1; CN102803740A; FR3050777A1; CN110892157A; US11841021B2; WO2019016499A1; WO2011096980A1; US9222485B2; WO2018060615A1; US8602728B2; US9587646B2

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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