

Title (en)

Air- cooled exhaust gas cooler for vehicle with combustion engine

Title (de)

Luftgekühlter Abgaskühler für ein verbrennungsmotorisch angetriebenes Fahrzeug

Title (fr)

Dispositif de refroidissement par air de gaz d'échappement pour un véhicule avec moteur à combustion

Publication

**EP 1136667 A3 20040407 (DE)**

Application

**EP 01107147 A 20010322**

Priority

DE 10014266 A 20000322

Abstract (en)

[origin: EP1136667A2] Exhaust gas cooler comprises an exhaust gas inlet, an exhaust gas outlet and a number of channels (1) for the exhaust gas which extend between the inlet and outlet and through which cooling air circulates. At least one cooling air guiding plate (7) is provided through which the channels can pass. The guiding plates are arranged across the longitudinal direction of the channels. An Independent claim is also included for a vehicle comprising a combustion engine containing the exhaust gas cooler. Preferred Features: The guiding plates are bent shovel-like in at least one of its edge regions and are composed of a number of cooling air guiding plate segments (5) which are produced in one piece with the channels.

IPC 1-7

**F01N 3/02**; **F28F 3/04**; **F28D 1/03**; **F28F 13/06**

IPC 8 full level

**F01N 3/05** (2006.01); **F28D 1/03** (2006.01); **F28F 3/04** (2006.01); **F28F 13/06** (2006.01); **F01N 3/08** (2006.01)

CPC (source: EP)

**F01N 3/05** (2013.01); **F01N 3/0842** (2013.01); **F02M 26/31** (2016.02); **F28D 1/0316** (2013.01); **F28F 3/046** (2013.01); **F28F 13/06** (2013.01); **F01N 2240/02** (2013.01); **F01N 2260/022** (2013.01)

Citation (search report)

- [DYA] US 5915472 A 19990629 - TAKIKAWA KAZUNORI [JP], et al
- [Y] US 3265128 A 19660809 - PIERRE LEGRAND
- [A] US 3368614 A 19680213 - ANDERSON GEORGE A
- [A] GB 846710 A 19600831 - BABCOCK & WILCOX LTD
- [A] IT 1154519 B 19870121 - HUETOETECHNIKA IPARI SZOEVEK [HU]
- [A] US 4127165 A 19781128 - SMALL WILLIAM M

Cited by

EP1992898A3; EP1331462A3; FR2824594A1; FR2878895A1; GB2416026A; GB2416026B; FR2824595A1; DE10140988B4; US6889758B2; WO2007108033A2; US8739520B2; US6938686B2; WO2006040053A1; WO2007108033A3; WO2004085945A1; EP1709380A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1136667 A2 20010926**; **EP 1136667 A3 20040407**; DE 10014266 A1 20010927

DOCDB simple family (application)

**EP 01107147 A 20010322**; DE 10014266 A 20000322