

Title (en)

Exhaust manifold for an exhaust system of a combustion engine

Title (de)

Abgaskrümmer für eine Abgasanlage eines Verbrennungsmotors

Title (fr)

Collecteur de gaz d'échappement pour une installation de gaz d'échappement d'un moteur à combustion interne

Publication

**EP 2921670 A3 20151202 (DE)**

Application

**EP 15157422 A 20150303**

Priority

DE 102014103809 A 20140320

Abstract (en)

[origin: US2015267599A1] An exhaust manifold for an exhaust system of a combustion engine includes an outer shell, an inner shell arranged in the outlet shell, and an inlet flange which is configured for attachment to a cylinder head of the combustion engine and has a receptacle. The inner shell is floatingly supported in the outer shell and has an inlet-flange-side edge which is formed with an outwardly bent flange positioned in the receptacle of the inlet flange. The outer shell has an inlet-flange-side edge which has at least one area which rests in the receptacle upon the outwardly bent flange and is joined with the receptacle.

IPC 8 full level

**F01N 13/10** (2010.01); **F01N 13/14** (2010.01); **F01N 13/18** (2010.01)

CPC (source: EP US)

**F01N 13/102** (2013.01 - EP US); **F01N 13/105** (2013.01 - EP US); **F01N 13/107** (2013.01 - EP US); **F01N 13/141** (2013.01 - US); **F01N 13/1811** (2013.01 - EP US); **F01N 13/1844** (2013.01 - US); **F01N 13/1888** (2013.01 - US)

Citation (search report)

- [XDY] US 5916137 A 19990629 - HAYASHI TOSHIOMI [JP]
- [Y] EP 0671551 A1 19950913 - STREIT S A ETS [FR]
- [X] US 6789386 B1 20040914 - HAERLE HANS A [DE]
- [XD] EP 2207950 B1 20110518 - GILLET HEINRICH GMBH [DE]
- [AD] DE 10223838 C1 20031016 - BENTELER AUTOMOBILTECHNIK GMBH [DE]

Cited by

WO2020074114A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE 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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2921670 A2 20150923**; **EP 2921670 A3 20151202**; **EP 2921670 B1 20170920**; CN 104948283 A 20150930; CN 104948283 B 20171124; DE 102014103809 A1 20151203; ES 2644396 T3 20171128; US 2015267599 A1 20150924; US 9677453 B2 20170613

DOCDB simple family (application)

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