

Title (en)

Method of making an air gap isolated exhaust manifold for a vehicle

Title (de)

Verfahren zur Herstellung eines luftspaltisolierten Abgaskrümmers einer Fahrzeugabgasanlage

Title (fr)

Procédé de fabrication d'un collecteur d'échappement isolé par une couche d'air pour un véhicule

Publication

EP 0919703 A3 20030312 (DE)

Application

EP 98119975 A 19981022

Priority

DE 19752773 A 19971128

Abstract (en)

[origin: EP0919703A2] The method entails the assembly of an exhaust gas manifold from a number of double-walled exhaust gas pipes coupled by interfitting their adjacent ends and welding the inner and outer pipes together via circular seams. An input flange is welded to the end of each double-walled exhaust gas pipe to be connected to the engine and an output flange is welded to the common output exhaust gas pipe.

IPC 1-7

F01N 7/10; **F01N 7/14**

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 13/1811** (2013.01 - EP US); **F01N 13/1883** (2013.01 - EP US); **F01N 2450/22** (2013.01 - EP US); **Y10T 29/49398** (2015.01 - EP US); **Y10T 29/49879** (2015.01 - EP US)

Citation (search report)

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- [DA] DE 19511514 C1 19960801 - DAIMLER BENZ AG [DE]
- [A] US 4644747 A 19870224 - PETERSEN DONALD R [US]
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Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0919703 A2 19990602; **EP 0919703 A3 20030312**; **EP 0919703 B1 20031126**; DE 19752773 A1 19990602; DE 19752773 C2 19990902; DE 59810260 D1 20040108; ES 2210643 T3 20040701; US 6343417 B1 20020205

DOCDB simple family (application)

EP 98119975 A 19981022; DE 19752773 A 19971128; DE 59810260 T 19981022; ES 98119975 T 19981022; US 20113298 A 19981130