

Title (en)  
Method for manufacturing an exhaust gas manifold

Title (de)  
Verfahren zur Herstellung eines Abgassammlers

Title (fr)  
Procédé pour la fabrication d'un collecteur d'échappement

Publication  
**EP 1225315 A3 20031203 (DE)**

Application  
**EP 02000755 A 20020112**

Priority  
DE 10102896 A 20010123

Abstract (en)  
[origin: EP1225315A2] The method for making an exhaust manifold for a multi-cylinder IC engine comprises forming the casing (3) by internal high pressure forming of a tubular profile. The inlet pipe (4) is then formed to give it a rectangular cross-section with curved ends.

IPC 1-7  
**F01N 7/10**; **F01N 3/28**

IPC 8 full level  
**B21D 53/88** (2006.01); **B21D 26/033** (2011.01); **B21D 53/84** (2006.01); **F01N 3/28** (2006.01); **F01N 13/10** (2010.01)

CPC (source: EP US)  
**F01N 3/2882** (2013.01 - EP US); **F01N 13/10** (2013.01 - EP US); **Y10T 29/49345** (2015.01 - EP US); **Y10T 29/49391** (2015.01 - EP US); **Y10T 29/49398** (2015.01 - EP US); **Y10T 29/49437** (2015.01 - EP US); **Y10T 29/4944** (2015.01 - EP US); **Y10T 29/49805** (2015.01 - EP US)

Citation (search report)

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CN111531062A

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**EP 1225315 A2 20020724**; **EP 1225315 A3 20031203**; **EP 1225315 B1 20051123**; **EP 1225315 B8 20060607**; AT E310898 T1 20051215; CZ 2002280 A3 20020911; CZ 298339 B6 20070829; DE 10102896 A1 20021031; DE 10102896 B4 20040115; DE 50204982 D1 20051229; US 2002116819 A1 20020829; US 6687996 B2 20040210

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**EP 02000755 A 20020112**; AT 02000755 T 20020112; CZ 2002280 A 20020123; DE 10102896 A 20010123; DE 50204982 T 20020112; US 5059402 A 20020116