

Title (en)
Air gap insulation exhaust manifold

Title (de)
Luftspaltisolierter Abgaskrümmer

Title (fr)
Collecteur d'échappement isolé par couche d'air

Publication
EP 0717179 A1 19960619 (DE)

Application
EP 95118922 A 19951201

Priority
DE 4444760 A 19941216

Abstract (en)
The manifold (1) is made from sheet metal inner (6) and outer (5) tubing, and has an outlet opening (2) at one end, and lateral inlet openings (4). Exhaust gases are guided by inner tubing only in the regions where they combine with flows from other inlets, and in the region of a single inlet opening are guided only by outer tubing. The inner tubing may be assembled from segments, and these may also have thin walls, in order for their reduced heat capacity to assist with the rapid warming of downstream emission control equipment. It may also be made using a hydrostatic deformation process.

Abstract (de)
Bei einem luftspaltisolierten Abgaskrümmer (1) wird vorgeschlagen, die Doppelwandigkeit nur im Bereich des Sammelrohres vorzusehen, während im Bereich der Einzelrohre nur eine einwandige Gasführung realisiert ist. Das Außenrohr (5) besteht aus zwei Halbschalen, während das gasführende Innenrohr (6) insbesondere aus einem oder mehreren Teilstücken nach dem Innenhochdruckverfahren hergestellt ist. <IMAGE>

IPC 1-7
F01N 7/10; **F01N 7/14**

IPC 8 full level
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CPC (source: EP)
F01N 13/102 (2013.01); **F01N 13/141** (2013.01); **F01N 13/1883** (2013.01); **F01N 13/1888** (2013.01)

Citation (search report)

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