

Title (en)

Exhaust collector for an internal combustion engine

Title (de)

Abgaskrümmer für eine Brennkraftmaschine

Title (fr)

Collecteur d'échappement pour un moteur à combustion interne

Publication

EP 0735251 B2 20030205 (DE)

Application

EP 96100965 A 19960124

Priority

DE 19511514 A 19950329

Abstract (en)

[origin: DE19511514C1] The manifold has an inner tube (2) which is enclosed by an outer shell (3), and which is separated from it by an air gap (4). The tube has at least two connecting flanges which can be fastened to a cylinder head, and the shell is made up from two half shells (14,15) which are joined by seams (18,21). The seams which extend between two neighbouring flanges, have a greater separation from the inner tube than the remaining seams. The shell has roughly the shape of a droplet in this region, when viewed orthogonal to the plane which runs between the flanges.

IPC 1-7

F01N 7/10

IPC 8 full level

F01N 13/10 (2010.01)

CPC (source: EP US)

F01N 13/102 (2013.01 - EP US); **F01N 13/141** (2013.01 - EP US)

Cited by

GB2315520A; GB2315520B

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 19511514 C1 19960801; DE 59600885 D1 19990114; EP 0735251 A1 19961002; EP 0735251 B1 19981202; EP 0735251 B2 20030205; US 5682741 A 19971104

DOCDB simple family (application)

DE 19511514 A 19950329; DE 59600885 T 19960124; EP 96100965 A 19960124; US 62283596 A 19960327