

Title (en)
Exhaust manifold flange for internal combustion engine

Title (de)
Abgaskrümmerflansch für eine Brennkraftmaschine

Title (fr)
Bride de collecteur d'échappement pour moteur à combustion interne

Publication
EP 0861975 A3 20010314 (DE)

Application
EP 98102983 A 19980220

Priority
DE 19708392 A 19970301

Abstract (en)
[origin: EP0861975A2] The manifold flange (1) consists of a base section (2) of sheet steel with beading (3), which extends at least approx. over the complete outer contour of the section. The section has holder bores (4) for one or more exhaust sockets (5), and the bores also have beading (6). The sockets are fitted, esp. welded into the bores. Fasteners have bores (7) in the base section. The holder bores are located between intermediate apertures (8) with beading (9). The side of the base section facing the IC engine has a raised part formed as sealing surface.

IPC 1-7
F01N 7/10

IPC 8 full level
F01N 7/10 (2006.01); **F01N 7/18** (2006.01); **F01N 13/10** (2010.01); **F01N 13/18** (2010.01)

CPC (source: EP US)
F01N 13/10 (2013.01 - EP US); **F01N 13/1872** (2013.01 - EP US); **Y10T 29/494** (2015.01 - EP US)

Citation (search report)

- [XA] DE 9316960 U1 19950316 - PROTOTECHNIK GMBH [DE]
- [XAY] DE 29615840 U1 19961024 - GILLET HEINRICH GMBH [DE]
- [YA] DE 29612841 U1 19960919 - MEYER KURT [DE]

Cited by
US7926852B2; EP2407649A1; FR2981403A1; US6789386B1; US8661802B2; WO0111209A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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