

Title (en)
Exhaust manifold

Title (de)
Abgaskrümmer

Title (fr)
Collecteur de gaz d'échappement

Publication
EP 1905974 A3 20090422 (DE)

Application
EP 07008323 A 20070424

Priority
DE 202006014855 U 20060927

Abstract (en)
[origin: EP1905974A2] The exhaust gas manifold includes a flange part (8) with several exhaust gas passages (12) and an exhaust gas guide part fixed to it. The flange part is made with a base element (10) and a stop washer (16) acting as a stop for the exhaust gas guide part. The stop washer corresponds at least partly to the shape of the exhaust gas guide part where it joins the flange part.

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

CPC (source: EP)
F01N 13/10 (2013.01); **F01N 13/102** (2013.01); **F01N 13/141** (2013.01); **F01N 13/1805** (2013.01); **F01N 13/1861** (2013.01); **F01N 13/1872** (2013.01)

Citation (search report)

- [X] DE 8914153 U1 19900215
- [A] DE 20101644 U1 20020606 - HAERLE HANS A [DE]
- [A] US 4197704 A 19800415 - DATE TASUKU [JP], et al
- [A] US 2003024299 A1 20030206 - FUJITA HIROYUKI [JP], et al

Cited by
CN103470888A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 1905974 A2 20080402; **EP 1905974 A3 20090422**; **EP 1905974 B1 20110223**; **EP 1905974 B2 20170322**; AT E499514 T1 20110315; DE 202006014855 U1 20061130; DE 502007006533 D1 20110407

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