

Title (en)

Exhaust gas recirculation unit for internal combustion engine

Title (de)

Abgasrückführeinheit für Brennkraftmaschinen

Title (fr)

Unité de recyclage de gaz d'échappement pour moteur à combustion interne

Publication

**EP 1703116 A3 20070627 (EN)**

Application

**EP 06005000 A 20060310**

Priority

JP 2005073080 A 20050315

Abstract (en)

[origin: EP1703116A2] An exhaust gas recirculation unit (10) has a catalyst portion (14) removing hydrocarbon by oxidation in an exhaust gas recirculation pipe (12) recirculating exhaust gas from an internal combustion engine into an intake pipe. The catalyst portion (14) is provided in contact with an external surface of an exhaust pipe (20) of the internal combustion engine.

IPC 8 full level

**F02M 25/07** (2006.01)

CPC (source: EP)

**F02M 26/14** (2016.02); **F02M 26/35** (2016.02); **F02M 26/41** (2016.02); **F02M 26/23** (2016.02)

Citation (search report)

- [X] EP 1331388 A2 20030730 - MITSUBISHI MOTORS CORP [JP]
- [XA] US 5701736 A 19971230 - MORISHIMA SHINGO [JP], et al
- [XA] US 5497619 A 19960312 - YAMADA JUN [JP], et al
- [A] WO 0034630 A1 20000615 - STT HOLDING AB [SE], et al
- [DA] JP H11125148 A 19990511 - MITSUBISHI MOTORS CORP
- [A] JP S63189664 A 19880805 - MITSUBISHI HEAVY IND LTD, et al

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FR2935435A1; CN111170273A; EP2481908A1; FR3005997A1; US8196568B2

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1703116 A2 20060920; EP 1703116 A3 20070627; EP 1703116 B1 20120215**; CN 100570148 C 20091216; CN 1834440 A 20060920; JP 2006257905 A 20060928; JP 4297067 B2 20090715

DOCDB simple family (application)

**EP 06005000 A 20060310**; CN 200610057477 A 20060315; JP 2005073080 A 20050315