

Title (en)
EXHAUST GAS SILENCER

Title (de)
SCHALLDÄMPFER-EINHEIT

Title (fr)
SILENCIEUX D'ÉCHAPPEMENT

Publication
EP 2639423 B1 20160622 (DE)

Application
EP 13156077 A 20130221

Priority
DE 102012204114 A 20120315

Abstract (en)
[origin: EP2639423A1] The silencer unit (1) has two-piece housing (4) with respective cup-like housing portions (2,3) made of austenitic or/and ferritic material, in which outlet and inlet openings (5,6) are formed. The outlet bottom (12) and inlet bottom (13) are inserted into outlet and inlet openings as outlet and inlet opening covers. The outer circumferential surface of outlet bottom collar is partly in contact with inner circumferential surface of outlet collar and outer circumferential surface of the inlet bottom collar is partly in contact with inner circumferential surface of the inlet collar. An independent claim is included for an exhaust system for motor vehicle.

IPC 8 full level
F01N 1/08 (2006.01); **F01N 13/08** (2010.01); **F01N 13/18** (2010.01)

CPC (source: EP US)
F01N 1/083 (2013.01 - EP US); **F01N 1/084** (2013.01 - EP US); **F01N 13/001** (2013.01 - US); **F01N 13/082** (2013.01 - EP US); **F01N 13/1838** (2013.01 - EP US); **F01N 13/1888** (2013.01 - EP US); **F01N 13/1894** (2013.01 - EP US); **F01N 13/1872** (2013.01 - EP US); **F01N 2470/02** (2013.01 - EP US)

Citation (opposition)
Opponent : Tenecco
• US 5739484 A 19980414 - JONES MACK L [US]
• EP 1691050 A1 20060816 - EBERSPAECHER J GMBH & CO [DE]
• WO 2008073137 A1 20080619 - OCV INTELLECTUAL CAPITAL LLC [US], et al
• US 4993513 A 19910219 - INOUE TAKESHI [JP], et al
• EP 0337877 A1 19891018 - RENAULT [FR]
• US 5627351 A 19970506 - OKUMA TAKANORI [JP], et al
• DE 102009013222 B3 20100311 - KWH AUTOMOBILTECHNIK GMBH [DE]
• EP 1061240 A2 20001220 - SCAMBIA IND DEV AG [LI]
• EP 1715155 A2 20061025 - EBERSPAECHER J GMBH & CO [DE]
• US 2003129102 A1 20030710 - TUREK ALAN GERARD [US], et al
• EP 0056604 A2 19820728 - ALCAN ALUMINIUMWERKE [DE]
• EP 1715154 A2 20061025 - EBERSPAECHER J GMBH & CO [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2639423 A1 20130918; EP 2639423 B1 20160622; CN 103410597 A 20131127; CN 103410597 B 20161228;
DE 102012204114 A1 20130919; DE 102012204114 B4 20150326; JP 2013194736 A 20130930; US 2013240289 A1 20130919;
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