

Title (en)

Mixing pipe and internal combustion engine with a mixing pipe

Title (de)

Mischstrecke und Verbrennungsmotor mit einer Mischstrecke

Title (fr)

Conduite de mélange et moteur à combustion interne avec une conduite de mélange

Publication

EP 2511509 A1 20121017 (EN)

Application

EP 11162634 A 20110415

Priority

EP 11162634 A 20110415

Abstract (en)

A mixing pipe (29, 129) for a charge air system of an internal combustion engine (1, 100) may comprise a first opening (70) for fluidly connecting the mixing pipe (29, 129) to a high-pressure component (32) of the charge air system and a second opening (72) for fluidly connecting the mixing pipe (29, 129) to a connecting port of an charge air inlet manifold (22), at least one sharp bend (50A, 50B, 50C, 150A, 150B, 150C) between the first opening (70) and the second opening (72); and an exhaust gas inlet port (74) that is positioned between the first opening (70) and the at least one sharp bend (50A, 50B, 50C, 150A, 150B, 150C) and configured for providing a fluid connection to an exhaust gas system of the internal combustion engine (1, 100).

IPC 8 full level

F02M 25/07 (2006.01); **F02M 35/10** (2006.01)

CPC (source: EP)

F02M 26/19 (2016.02); **F02M 35/10222** (2013.01)

Citation (applicant)

- EP 09002111 A 20090216
- EP 09015247 A 20091209

Citation (search report)

- [X] EP 1882836 A1 20080130 - INT TRUCK INTELLECTUAL PROP CO [US]
- [X] WO 2006044893 A2 20060427 - KOHLER CO [US], et al
- [X] DE 102005019776 A1 20061102 - BAYERISCHE MOTOREN WERKE AG [DE]
- [X] EP 2090770 A1 20090819 - IVECO SPA [IT]

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

Designated extension state (EPC)

BA ME

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