

Title (en)  
Gas Mixing system

Title (de)  
Gasmischsystem

Title (fr)  
Système de mélange de gaz

Publication  
**EP 2133548 A1 20091216 (EN)**

Application  
**EP 08158172 A 20080612**

Priority  
EP 08158172 A 20080612

Abstract (en)  
In one aspect a mixing tube may be provided that may have mixing tube wall with a plurality of mixing tube ports. The mixing tube may have a gas inlet opening. A mixing assembly may include a mixing tube as described and a mixing body. The mixing body may include a first gas passage, a second gas passage and may include an opening that connects the first and the second gas passages. The mixing tube may be mounted in the opening so that, in use, first gas that flows from the first gas passage to the second gas passage has to enter the gas inlet opening of the mixing tube and leave the mixing tube via the plurality of mixing tube ports. In yet another aspect, an exhaust gas recirculation system for an internal combustion engine may be provided that may include a mixing assembly as described.

IPC 8 full level  
**F02M 25/07** (2006.01); **B01F 23/10** (2022.01)

CPC (source: EP)  
**B01F 23/10** (2022.01); **B01F 25/313** (2022.01); **B01F 25/31331** (2022.01); **F02M 26/19** (2016.02); **F02M 35/10222** (2013.01); **F02B 29/0406** (2013.01); **F02M 26/05** (2016.02); **F02M 26/10** (2016.02); **F02M 26/21** (2016.02); **F02M 26/23** (2016.02)

Citation (applicant)  

- EP 0869275 A1 19981007 - CATERPILLAR INC [US]
- WO 02070888 A1 20020912 - VOLVO LASTVAGNAR AB [SE], et al
- US 2006060173 A1 20060323 - WEI PUNING [US], et al
- EP 1533512 A2 20050525 - MAHLE FILTERSYSTEME GMBH [DE]

Citation (search report)  

- [XY] US 2006060173 A1 20060323 - WEI PUNING [US], et al
- [YA] DE 19937781 A1 20010215 - MANN & HUMMEL FILTER [DE]
- [X] EP 1533512 A2 20050525 - MAHLE FILTERSYSTEME GMBH [DE]
- [X] DE 20023818 U1 20060614 - BOSCH GMBH ROBERT [DE]
- [X] WO 02070888 A1 20020912 - VOLVO LASTVAGNAR AB [SE], et al

Cited by  
EP4201509A1; DE102010046353A1; CN114542335A; GB2484481A; GB2484481B; EP2525075A1; CN107252640A; CN107261873A; CN108104986A; CN117919977A; EP3159526A1; JP2017096263A; US10054072B2; US9266074B2; US8763592B2; WO2014107126A1

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

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**EP 2133548 A1 20091216; EP 2133548 B1 20190612**

DOCDB simple family (application)  
**EP 08158172 A 20080612**