

Title (en)  
FLUID MIXING SYSTEM

Title (de)  
FLÜSSIGKEITSMISCHSYSTEM

Title (fr)  
SYSTÈME DE MÉLANGE DE FLUIDES

Publication  
**EP 2422061 A4 20140122 (EN)**

Application  
**EP 10767642 A 20100420**

Priority  

- US 2010031758 W 20100420
- US 17091409 P 20090420
- US 31734710 P 20100325

Abstract (en)  
[origin: WO2010123905A1] A fluid mixing system has first fluid conduit and second fluid conduit in fluid communication with the first fluid conduit. The second fluid conduit includes a first tube and a second tube, wherein at least one of the first and second tubes causes a swirling or tumbling fluid flow. The fluid mixing system may be an exhaust gas recirculation system having an air intake conduit and an exhaust gas recirculation conduit, wherein the exhaust gas recirculation conduit causes a swirling or tumbling fluid flow. A method of introducing multiple fluids includes providing a first fluid flow in a conduit, providing a second fluid flow in a first tube, and providing a third fluid flow in a second tube. The second fluid flow is introduced to the first fluid flow at a first entry angle relative to the conduit.

IPC 8 full level  
**F02B 47/08** (2006.01)

CPC (source: EP)  
**F02M 26/19** (2016.02)

Citation (search report)  

- [X] US 4027635 A 19770607 - GOTO KENJI, et al
- [X] US 4223650 A 19800923 - HERBERT SUMTER
- [X] GB 350394 A 19310527 - CARBURATEURS & APP CLAUDEL SA, et al
- [A] US 4134376 A 19790116 - TOKUSHIMA TAKASHIGE, et al
- See references of WO 2010123905A1

Designated contracting state (EPC)  
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**US 2010031758 W 20100420**; BR PI1016239 A 20100420; CN 201080023215 A 20100420; EP 10767642 A 20100420; JP 2012507318 A 20100420