

Title (en)

MIXING VALVE FOR AN INTERNAL COMBUSTION ENGINE OF A MOTOR VEHICLE

Title (de)

MISCHVENTIL EINER BRENNKRAFTMASCHINE EINES KRAFTFAHRZEUGES

Title (fr)

SOUPAPE MÉLANGEUSE D'UN MOTEUR À COMBUSTION INTERNE DE VÉHICULE AUTOMOBILE

Publication

EP 2834510 A1 20150211 (DE)

Application

EP 13712548 A 20130326

Priority

- DE 102012205691 A 20120405
- EP 2013056438 W 20130326

Abstract (en)

[origin: WO2013149896A1] In a mixing valve (6) for an internal combustion engine (1) of a motor vehicle, the distance between pivot axes (12, 13) of two flaps (10, 11) is smaller than the diameter of the largest flap (10). The flaps (10, 11) are also connected to a single drive device (8). The drive device (8) ensures a collision-free coupling of the movements of the flaps (10, 11). As a result, the design of said mixing valve (6) is particularly compact.

IPC 8 full level

F02M 25/07 (2006.01); **F16K 11/052** (2006.01); **F16K 11/22** (2006.01)

CPC (source: EP US)

F02M 26/21 (2016.02 - EP US); **F02M 26/64** (2016.02 - EP US); **F02M 26/70** (2016.02 - EP US); **F02M 35/10255** (2013.01 - US); **F16K 11/0525** (2013.01 - EP US); **F16K 11/165** (2013.01 - EP US)

Citation (search report)

See references of WO 2013149896A1

Citation (examination)

- US 2011023846 A1 20110203 - MIYAZAKI SHINSUKE [JP], et al
- FR 2926114 A1 20090710 - VALEO SYS CONTROLE MOTEUR SAS [FR]

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

DOCDB simple family (publication)

DE 102012205691 A1 20131010; CN 104169561 A 20141126; CN 104169561 B 20171222; EP 2834510 A1 20150211; US 2015176548 A1 20150625; US 9482194 B2 20161101; WO 2013149896 A1 20131010

DOCDB simple family (application)

DE 102012205691 A 20120405; CN 201380016345 A 20130326; EP 13712548 A 20130326; EP 2013056438 W 20130326; US 201314390318 A 20130326