

Title (en)
Filter device

Title (de)
Filtereinrichtung

Title (fr)
Dispositif de filtre

Publication
EP 2177725 B2 20180718 (DE)

Application
EP 09173047 A 20091014

Priority
DE 102008052259 A 20081018

Abstract (en)
[origin: EP2177725A1] The filter device (1) has filter housing (2) that is made of plastic material, and stiffened fastening flanges (3), over which the filter device is braced against internal combustion engine. The fastening flanges are arranged between the filter housing and the internal combustion engine.

IPC 8 full level
F01M 11/03 (2006.01)

CPC (source: EP)
F01M 11/03 (2013.01)

Citation (opposition)
Opponent :

- DE 20108573 U1 20021002 - HENGST WALTER GMBH & CO KG [DE]
- DE 10012461 A1 20010920 - MAHLE FILTERSYSTEME GMBH [DE]
- DE 10319653 A1 20041202 - MAHLE FILTERSYSTEME GMBH [DE]
- EP 1629878 A1 20060301 - BAYERISCHE MOTOREN WERKE AG [DE]
- DE 10303185 A1 20040805 - MANN & HUMMEL GMBH [DE]
- EP 1038110 B1 20050706 - MANN & HUMMEL GMBH [DE]
- DE 102006061589 A1 20070705 - AISAN IND [JP], et al
- DE 10345480 A1 20040429 - DENSO CORP [JP]
- EP 1647680 B1 20070418 - ISE INTEX GMBH [DE]
- EP 1870570 A2 20071226 - MAHLE INT GMBH [DE]

Cited by
DE102016007067A1; DE102016000338A1

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2177725 A1 20100421; EP 2177725 B1 20141210; EP 2177725 B2 20180718; DE 102008052259 A1 20100422

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