

Title (en)
Filter and cooling device

Title (de)
Filter- und Kühlvorrichtung

Title (fr)
Dispositif de filtrage et de refroidissement

Publication
EP 2532848 A3 20130605 (DE)

Application
EP 12170133 A 20120531

Priority
DE 102011076961 A 20110606

Abstract (en)
[origin: EP2532848A2] The device (1) has a carrier (3) for mounting the device on a housing (6), particularly a crankcase of the internal combustion engine (2). An oil cooler (4) and an oil filter (5) are arranged at the carrier. A permanently open bypass channel is formed in the carrier and bypass the oil cooler. A throttle element is arranged in the bypass channel and throttles the bypass channel. The bypass channel passes into a connecting channel.

IPC 8 full level
F01M 5/00 (2006.01); **F01M 11/03** (2006.01)

CPC (source: EP)
F01M 5/00 (2013.01); **F01M 11/03** (2013.01)

Citation (search report)

- [X] DE 10110382 A1 20020912 - MAHLE FILTERSYSTEME GMBH [DE]
- [X] EP 0816645 A1 19980107 - KNECHT FILTERWERKE GMBH [DE], et al
- [A] DE 3803546 A1 19880818 - HONDA MOTOR CO LTD [JP]
- [A] DE 20314687 U1 20050210 - HENGST GMBH & CO KG [DE]
- [E] DE 102011100385 A1 20121108 - VOLKSWAGEN AG [DE]

Cited by
DE102014225068A1; DE102018119600A1; CN110821597A; DE102018119600B4

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)
EP 2532848 A2 20121212; EP 2532848 A3 20130605; EP 2532848 B1 20160831; DE 102011076961 A1 20121206

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EP 12170133 A 20120531; DE 102011076961 A 20110606