

Title (en)
OIL MIST SEPARATOR

Title (de)
ÖLNEBELABSCHIEDER

Title (fr)
SÉPARATEUR DE BRUINE D'HUILE

Publication
EP 3034823 A1 20160622 (EN)

Application
EP 15200302 A 20151216

Priority
JP 2014255667 A 20141218

Abstract (en)
An oil mist separator includes: an inlet chamber including a blowby gas inlet; an outlet chamber including a blowby gas outlet, and a bottom wall; an oil mist separation section disposed between the inlet chamber and the outlet chamber; an oil recovering chamber which includes an oil recovering chamber bottom wall located below the bottom wall of the outlet chamber, and which is defined between the bottom wall of the outlet chamber, and the oil recovering chamber bottom wall; an oil communication hole which is opened in the bottom wall of the outlet chamber, and which connects the oil recovering chamber and the outlet chamber; a drain pipe which protrudes in a downward direction from a bottom surface of the oil recovering chamber; and a check valve which is provided at a tip end opening of the drain pipe.

IPC 8 full level
F01M 13/04 (2006.01)

CPC (source: CN EP)
F01M 13/04 (2013.01 - CN EP); **F01M 2013/0433** (2013.01 - EP); **F01M 2013/0494** (2013.01 - CN)

Citation (applicant)
• JP H08158853 A 19960618 - TSUCHIYA SEISAKUSHO
• JP 2009121281 A 20090604 - MAHLE FILTER SYSTEMS JP CORP

Citation (search report)
• [X] EP 2796678 A1 20141029 - MAHLE FILTER SYSTEMS JP CORP [JP]
• [Y] EP 2594757 A1 20130522 - MAHLE FILTER SYSTEMS JP CORP [JP]
• [Y] JP 2007009746 A 20070118 - TOYOTA MOTOR CORP
• [A] EP 2532850 A1 20121212 - MAHLE FILTER SYSTEMS JP CORP [JP]
• [A] EP 2460984 A1 20120606 - ELRINGKLINGER AG [DE]
• [A] EP 2390477 A1 20111130 - ELASIS S C P A [IT]

Cited by
US10718241B2; US10898839B2; US10894227B2; US11181021B2; DE112018003854B4; US10774703B2; US10729998B2; US10799819B2; US11607633B2

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 3034823 A1 20160622; EP 3034823 B1 20190227; CN 105715326 A 20160629; JP 2016114034 A 20160623; JP 6412424 B2 20181024

DOCDB simple family (application)
EP 15200302 A 20151216; CN 201510954547 A 20151217; JP 2014255667 A 20141218