

Title (en)  
Combustion engine

Title (de)  
Brennkraftmaschine

Title (fr)  
Moteur à combustion interne

Publication  
**EP 1892390 B1 20120425 (DE)**

Application  
**EP 07010762 A 20070531**

Priority  
DE 102006035888 A 20060731

Abstract (en)  
[origin: EP1892390A2] Oil scrapers (8) scrape off oil from the crankshaft and/or from the connecting rods (6). An oil pan (7) is arranged below the crankcase to hold the oil scraped off by the oil scrapers. Air/oil separators (9) separate air from the returned oil. Each oil scraper is designed in one piece with its associated air/oil separator and is guided to the oil inlet opening of each air/oil separator. An oil outlet opening is assigned to each air/oil separator so that the oil outlet opening is located above an oil level in the oil pan in each driving state of a motor vehicle.

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

CPC (source: EP US)  
**F01M 11/0004** (2013.01 - EP US); **F01M 13/00** (2013.01 - EP US); **F01M 2011/0033** (2013.01 - EP US); **F01M 2011/005** (2013.01 - EP US)

Citation (examination)  
JP H05296018 A 19931109 - MITSUBISHI OIL CO

Cited by  
CN107429583A; EP3106635A1; US10502105B2; WO2016119768A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 1892390 A2 20080227; EP 1892390 A3 20100915; EP 1892390 B1 20120425**; CN 101117904 A 20080206; CN 101117904 B 20110525; DE 102006035888 A1 20080207; JP 2008032009 A 20080214; US 2008022964 A1 20080131; US 7472675 B2 20090106

DOCDB simple family (application)  
**EP 07010762 A 20070531**; CN 200710138201 A 20070731; DE 102006035888 A 20060731; JP 2007194147 A 20070726; US 82679407 A 20070718