

Title (en)

METHOD FOR REMOVING OIL FROM CRANKCASE VENTILATION GASES AND DEVICES FOR IMPLEMENTING SAID METHOD

Title (de)

VERFAHREN ZUR ENTÖLUNG VON KURBELGEHÄUSEENTLÜFTUNGSGASEN UND VORRICHTUNGEN ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCEDE DE DESHUILAGE DES GAZ DE VENTILATION D'UN CARTER DE VILEBREQUIN ET DISPOSITIFS POUR LA MISE EN OEUVRE DE CE PROCEDE

Publication

EP 1090210 A1 20010411 (DE)

Application

EP 00929385 A 20000419

Priority

- DE 19918311 A 19990422
- EP 0003549 W 20000419

Abstract (en)

[origin: DE19918311A1] The invention relates to a method for removing oil from crankcase ventilation gases in an internal combustion engine, whereby an oil separating element (1), e.g. a cyclone, is cross flown by the crankcase ventilation gases and the oil droplets contained therein are separated. The method according to the invention is characterized in that the volumetric flow (2) of the crankcase ventilation gases is subdivided into at least two partial volumetric flows (21, 22, 23, 24) and at least one partial volumetric flow is guided through at least one oil separating element (1), wherein the size of the at least two partial volumetric flows (21 - 24) is regulated depending on the size of the volumetric flow (2). The invention also relates to devices for implementing the inventive method.

IPC 1-7

F01M 13/04

IPC 8 full level

B01D 45/12 (2006.01); **F01M 13/00** (2006.01); **F01M 13/04** (2006.01)

CPC (source: EP US)

F01M 13/04 (2013.01 - EP US); **F01M 2013/0066** (2013.01 - EP US); **F01M 2013/0427** (2013.01 - EP US)

Citation (search report)

See references of WO 0065206A1

Cited by

DE102013212104A1; DE202006004897U1; DE102013212104B4; DE202006009537U1; DE102005003149A1; DE102005003149B4; DE102005003149B8; WO2007113522A1; US10247068B2; EP2937533A1; WO2016055373A1; EP2818653A1; US9416695B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

DE 19918311 A1 20001102; BR 0006995 A 20050412; DE 50003709 D1 20031023; EP 1090210 A1 20010411; EP 1090210 B1 20030917; EP 1090210 B2 20111012; JP 2002543321 A 20021217; JP 4033633 B2 20080116; US 6684864 B1 20040203; WO 0065206 A1 20001102; WO 0065206 A9 20010315

DOCDB simple family (application)

DE 19918311 A 19990422; BR 0006995 A 20000419; DE 50003709 T 20000419; EP 0003549 W 20000419; EP 00929385 A 20000419; JP 2000613928 A 20000419; US 72031202 A 20020129