

Title (en)

Exhaust gas recirculating device for a combustion engine

Title (de)

Vorrichtung zur Abgasrückführung für einen Verbrennungsmotor

Title (fr)

Dispositif de recirculation de gaz d'échappement pour un moteur à combustion

Publication

EP 0916837 B1 20020313 (DE)

Application

EP 98119748 A 19981022

Priority

DE 19750588 A 19971117

Abstract (en)

[origin: EP0916837A2] The exhaust gas return device has an exhaust gas cooler (10) and a valve (11) which sets the amount of the returned exhaust gas. The valve can be adjusted by a setting element (13). The exhaust gas cooler and the valve are connected directly to each other to form one structural unit. The setting element is fitted to a component (23) which is in heat conducting contact with the exhaust gas cooler or to a component which has one or more channels for liquid coolant.

IPC 1-7

F02M 25/07

IPC 8 full level

F02M 25/07 (2006.01); **F02M 26/12** (2016.01); **F02M 26/32** (2016.01); **F02M 26/53** (2016.01)

CPC (source: EP US)

F02M 26/12 (2016.02 - EP US); **F02M 26/32** (2016.02 - EP US); **F02M 26/53** (2016.02 - EP US)

Citation (opposition)

Opponent : Gustav Wahler GmbH u. Co.KG

- US 4134377 A 19790116 - BAMSEY ROBERT G, et al
- DE 29714478 U1 19971009 - GILLET HEINRICH GMBH [DE]
- DE 29611034 U1 19971016 - HOHENBERGER RALPH [DE]
- US 2408846 A 19461008 - DUKE GOLDEN LUCIUS, et al

Cited by

EP1233170A3; DE10327481A1; FR2943384A1; LU90761B1; EP1251263A3; DE102004019554B4; DE102004019554C5; US8769930B2; DE202005021555U1; WO2007042209A1; WO2010109104A1; WO2006040053A1; WO0120156A1; WO0121952A1; EP1626238A1; US7243707B2; EP1491837A2; US7036565B2; EP1489373A2; US7055584B2; US8353274B2; US8739520B2; EP2025910A1; EP1589214A2; US7077114B2

Designated contracting state (EPC)

DE FR GB SE

DOCDB simple family (publication)

EP 0916837 A2 19990519; EP 0916837 A3 20000308; EP 0916837 B1 20020313; EP 0916837 B2 20111026; DE 19750588 A1 19990520; DE 19750588 B4 20161013; DE 59803324 D1 20020418; US 6213105 B1 20010410

DOCDB simple family (application)

EP 98119748 A 19981022; DE 19750588 A 19971117; DE 59803324 T 19981022; US 19258898 A 19981117