

Title (en)  
Exhaust gas recirculation device

Title (de)  
Abgasrückführeinrichtung

Title (fr)  
Dispositif de recirculation de gaz d'échappement

Publication  
**EP 0809012 A3 19990324 (EN)**

Application  
**EP 97107793 A 19970513**

Priority  
• JP 11911296 A 19960514  
• JP 31649696 A 19961127  
• JP 3030497 A 19970214

Abstract (en)  
[origin: EP0809012A2] In an engine, in order to prevent a deposit from building up at an EGR exhaust port to close the port or to prevent an EGR valve from sticking, an EGR valve is provided in a upper portion of an intake pipe, and a valve seat portion thereof is separated from the intake pipe by a partition flange. An EGR gas passing through the EGR valve flows from the inflowing port of an inflowing passage into an intake air and is mixed with this. An oil component is contained in a blow-by gas flowing from the inflowing port on the upstream side, therefore this is adhered to the inner surface of the intake pipe and forms an oil film, but this oil flows downward due to gravity and the valve seat located above is covered by the partition flange, therefore it is possible to prevent the oil intruding into the EGR valve and the carbon particles in the EGR gas mixing with the oil in the blow-by gas to form a deposit. <IMAGE>

IPC 1-7  
**F02M 25/07**

IPC 8 full level  
**F02M 25/07** (2006.01); **F02M 25/08** (2006.01)

CPC (source: EP)  
**F02M 25/0872** (2013.01); **F02M 26/21** (2016.02); **F02M 26/50** (2016.02); **F02M 26/19** (2016.02)

Citation (search report)  
• [X] US 4373496 A 19830215 - GREINER MAX [DE], et al  
• [XA] US 5333456 A 19940802 - BOLLINGER STEVEN R [US]  
• [A] US 4615324 A 19861007 - CHOUSHI MASAHIRO [JP], et al

Cited by  
EP1152141A1; FR3028555A1; DE102008023381A1; EP3657004A4; US8423269B2; US11118546B2; WO2016079390A1; US8181633B2

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