

Title (en)  
Multifunctional module for an internal combustion engine

Title (de)  
Multifunktionsmodul für einen Verbrennungsmotor

Title (fr)  
Module multifonctionnel pour moteur à combustion interne

Publication  
**EP 2037116 A1 20090318 (EN)**

Application  
**EP 08164192 A 20080911**

Priority  
FR 0757538 A 20070912

Abstract (en)  
This invention relates to a multifunctional module for an internal-combustion engine, forming a structural assembly and incorporating the functions of cooling the exhaust gases, regulating the re-injection of the exhaust gases and regulating, at least in part, the circulation flows in the cooling circuit of the said engine; the structural assembly is made in the form of a structural and operational unit (1), intended to be mounted on the engine block and incorporating at least a part of an exhaust-gas recirculation circuit, a heat exchanger (2) for cooling the said gases and at least a part of the engine-cooling circuit, incorporating at least the water-outlet housing. The exhaust-gas recirculation circuit part and the engine-cooling circuit part are incorporated in separate structural elements.

IPC 8 full level  
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CPC (source: EP)  
**F02M 26/26** (2016.02); **F02M 26/28** (2016.02); **F01P 11/04** (2013.01); **F01P 2025/34** (2013.01)

Citation (search report)

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