

Title (en)  
A fluidic channel structure of internal combustion engine

Title (de)  
Fluidkanalstruktur eines Verbrennungsmotors

Title (fr)  
Structure de canaux de fluide d'un moteur à combustion interne

Publication  
**EP 2253811 B1 20120215 (EN)**

Application  
**EP 10163053 A 20100518**

Priority  
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Abstract (en)  
[origin: EP2253811A1] This invention provides a fluidic channel structure of internal combustion engine enabling an oil cooler to be smaller in size without a complicated fluidic channel structure placed inside the internal combustion engine body. This is a fluidic channel structure including an oil cooler (7), a lubricating oil passage, and a cooling water passage. The oil cooler (7) has a core section (72) exchanging heat and a flange section (73) extending in the surrounding of the core section (72). The core section (72) is provided with a pair of communication port for lubricating oil (74a), (74b), the flange section (73) is provided with a pair of through holes (76a), (76b), the pipes (P1), (P2) are laid out in a pair of through holes (76a), (76b), and the first concave groove (25a) and the second concave groove (25b) connecting respectively to a pair of communication port for cooling water and a pair of through holes (76a), (76b) are formed in a surface of the bottom (21a) of the oil pan (2) attaching the oil cooler (7).

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Cited by  
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