

Title (en)
OIL COOLER

Publication
EP 0180086 B1 19900131 (DE)

Application
EP 85113040 A 19851015

Priority
DE 3440064 A 19841102

Abstract (en)
[origin: US4696339A] An oil cooler arrangement for internal-combustion engines is described which is used in particular for installation between the engine and an oil filter. The heat exchange space of this oil cooler through which the oil flows is formed as a housing chamber into which a heat exchange body is tightly placed through which the coolant, in particular, water, flows. The heat exchange body includes many parallel pipes, the ends of which are held in the bottoms of two oppositely disposed coolant collecting spaces. This design permits the production of oil coolers without soldering or welding processes. The water flow-through through the parallel pipes is also exactly defined.

IPC 1-7
F01M 1/10; **F01M 5/00**; **F28F 9/26**

IPC 8 full level
F01M 1/10 (2006.01); **F01M 5/00** (2006.01); **F28F 9/26** (2006.01)

CPC (source: EP US)
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EP 0180086 A2 19860507; **EP 0180086 A3 19870819**; **EP 0180086 B1 19900131**; DE 3440064 A1 19860507; DE 3440064 C2 19890420; DE 3575765 D1 19900308; US 4696339 A 19870929

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EP 85113040 A 19851015; DE 3440064 A 19841102; DE 3575765 T 19851015; US 79312385 A 19851030