

Title (en)  
Integrated heat exchanger

Title (de)  
Integrierter Wärmetauscher

Title (fr)  
Echangeur de chaleur intégré

Publication  
**EP 0856717 A3 19990616 (EN)**

Application  
**EP 98101464 A 19980128**

Priority  
JP 1525297 A 19970129

Abstract (en)  
[origin: EP0856717A2] An integrated heat exchanger which includes a radiator (13) adjoining a condenser (11) and shares corrugated fins (25) disposed in a core (17) formed between the radiator (13) and the condenser (11), the heat exchanger including a partition (27) for dividing the inside of a tank (19,20) of the radiator (13) into which cooling water flows; and opening/closing means (31) which is disposed in the partition (27) so as to open when the temperature of the cooling water reaches a given temperature or more, as well as to close when the temperature of the cooling water is less than the given temperature.

IPC 1-7  
**F28D 1/04**; **F28F 9/02**

IPC 8 full level  
**F03G 7/06** (2006.01); **B60H 1/32** (2006.01); **F01P 3/18** (2006.01); **F25B 39/04** (2006.01); **F28D 1/04** (2006.01); **F28F 9/02** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP)  
**F28D 1/0435** (2013.01); **F28F 9/0212** (2013.01); **F28F 27/02** (2013.01); **F28D 2021/0084** (2013.01); **F28D 2021/0094** (2013.01); **F28F 2009/0287** (2013.01); **F28F 2215/02** (2013.01)

Citation (search report)

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- [A] US 3481152 A 19691202 - SEELEY WILLIAM M
- [A] WO 9611121 A1 19960418 - BEHR GMBH & CO [DE], et al
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- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 307 (M - 435) 4 December 1985 (1985-12-04)

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