

Title (en)  
HEAT-EXCHANGER

Publication  
**EP 0522595 A3 19930526 (DE)**

Application  
**EP 92111895 A 19920713**

Priority  
DE 4122961 A 19910711

Abstract (en)  
[origin: EP0522595A2] 1. Heat exchanger. 2.1 A known heat exchanger which is used as a water-cooled oil cooler is produced from sheet metal. 2.2 According to the invention, a heat exchanger is provided which is used as an air-cooled shell heat exchanger for cooling water. In this case, the individual shells 1 are produced from aluminium, flow baffles 4 embossed in the shells 1 being aligned with an angle of attack of 8 DEG relative to the longitudinal axis of the individual shells 1. 3. Figure 1. <IMAGE>

IPC 1-7  
**F28F 21/08**; **F28F 3/02**; **B23K 1/00**

IPC 8 full level  
**B23K 1/00** (2006.01); **F28D 9/00** (2006.01); **F28F 3/02** (2006.01); **F28F 3/04** (2006.01); **F28F 3/08** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP)  
**F28D 9/0043** (2013.01); **F28F 3/044** (2013.01); **F28F 21/084** (2013.01)

Citation (search report)  
• [A] DE 1953438 A1 19700430 - CHAUSSON USINES SA  
• [A] US 4209064 A 19800624 - BENNETT MORELAND P [US], et al  
• [A] EP 0271084 A2 19880615 - NIPPON DENSO CO [JP]  
• [X] PATENT ABSTRACTS OF JAPAN vol. 011, no. 057 (M-564)21. Februar 1987 & JP-A-61 217 697 ( NIPPON DENSO CO LTD ) 27. September 1986

Cited by  
CN106440915A; DE10237648A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0522595 A2 19930113**; **EP 0522595 A3 19930526**; **EP 0522595 B1 19950823**; DE 4122961 A1 19930114; DE 59203361 D1 19950928

DOCDB simple family (application)  
**EP 92111895 A 19920713**; DE 4122961 A 19910711; DE 59203361 T 19920713