

Title (en)  
Multipath heat exchanger

Title (de)  
Mehrwege-Wärmeaustauscher

Title (fr)  
Echangeur de chaleur à plusieurs passes

Publication  
**EP 0952421 A3 20000308 (DE)**

Application  
**EP 99106575 A 19990331**

Priority  
DE 19817659 A 19980421

Abstract (en)  
[origin: EP0952421A2] The heat exchanger (1) has a tubular body (2) and a cover (5) connected to the bottom (3) of the tubular body. The cover contains at least one web (11) to guide the fluid passing through the cover. The web is connected to the cover. A gap (13) is left between the web and the bottom. Leak flows from the chambers (14,15) formed by the web can flow through this gap.

IPC 1-7  
**F28F 9/02**; **F28D 7/16**

IPC 8 full level  
**F28F 9/22** (2006.01); **F28D 7/06** (2006.01); **F28D 7/16** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP KR US)  
**F28D 7/06** (2013.01 - EP US); **F28F 9/00** (2013.01 - KR); **F28F 9/0202** (2013.01 - EP US); **Y10S 165/428** (2013.01 - EP US)

Citation (search report)

- [XY] FR 2476826 A1 19810828 - SUEDEDEUTSCHE KUEHLER BEHR [DE]
- [Y] FR 2491610 A1 19820409 - VALEO [FR]
- [Y] US 4972903 A 19901127 - KWOK TAI W [US]
- [A] DE 4418285 A1 19950105 - VALEO THERMIQUE MOTEUR SA [FR]
- [A] FR 2665757 A1 19920214 - VALEO THERMIQUE MOTEUR SA [FR]

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0952421 A2 19991027**; **EP 0952421 A3 20000308**; **EP 0952421 B1 20030702**; AT E244387 T1 20030715; AU 2386399 A 19991028; AU 747566 B2 20020516; CA 2269463 A1 19991021; CA 2269463 C 20080415; DE 19817659 C1 20000511; DE 59906151 D1 20030807; ES 2201588 T3 20040316; JP 4422234 B2 20100224; JP H11325786 A 19991126; KR 100525935 B1 20051108; KR 19990083331 A 19991125; US 6334484 B1 20020101

DOCDB simple family (application)  
**EP 99106575 A 19990331**; AT 99106575 T 19990331; AU 2386399 A 19990420; CA 2269463 A 19990420; DE 19817659 A 19980421; DE 59906151 T 19990331; ES 99106575 T 19990331; JP 11159499 A 19990420; KR 19990013943 A 19990420; US 29489699 A 19990420