

Title (en)

Heat exchanger, especially cooling fluid cooler

Title (de)

Wärmetauscher, insbesondere Kühlflüssigkeitskühler

Title (fr)

Echangeur de chaleur, en particulier radiateur de liquide de refroidissement

Publication

EP 1703242 A1 20060920 (DE)

Application

EP 06004302 A 20060303

Priority

DE 102005012082 A 20050316

Abstract (en)

The cooler has accumulative containers (2, 3) with a set of tubes (4) via which a medium e.g. cooling fluid of a motor vehicle engine, flows. Separating plates (10, 14) are arranged within the containers (3, 2), respectively, and separate two cycles of the fluid from each other. A discharge unit (12) blocking a break-through (11) of the plate (10) is designed in such a manner that the content of the fluid cycles is dischargeable.

IPC 8 full level

F28D 1/04 (2006.01)

CPC (source: EP US)

F28F 9/0209 (2013.01 - EP US); **F28F 2265/06** (2013.01 - EP US)

Citation (applicant)

EP 0818663 B1 20000816 - MODINE MFG CO [US], et al

Citation (search report)

- [DA] EP 0818663 A2 19980114 - LAENGERER & REICH GMBH & CO [DE], et al
- [A] US 2002050348 A1 20020502 - WATANABE KAZUHIRO [JP], et al
- [A] EP 0677716 A1 19951018 - SHOWA ALUMINUM CORP [JP]
- [A] DE 10041122 A1 20020307 - BEHR GMBH & CO [DE]
- [A] US 6575227 B1 20030610 - LEESON JEFFREY S [US], et al

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1703242 A1 20060920; EP 1703242 B1 20071114; DE 102005012082 A1 20060921; DE 502006000175 D1 20071227; US 2006207755 A1 20060921; US 7721796 B2 20100525

DOCDB simple family (application)

EP 06004302 A 20060303; DE 102005012082 A 20050316; DE 502006000175 T 20060303; US 36980006 A 20060307