

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