

Title (en)

Heat exchanger having extended heat transfer surface around fastening points

Title (de)

Wärmetauscher mit erweiterter Wärmetransferoberfläche um Befestigungsstellen

Title (fr)

Échangeur thermique possédant une surface de transfert thermique étendue autour de points de fixation

Publication

**EP 2594885 A2 20130522 (EN)**

Application

**EP 12195825 A 20110610**

Priority

- SE 1050615 A 20100616
- EP 11796046 A 20110610
- SE 2011050713 W 20110610

Abstract (en)

A heat exchanger for an oil cooler comprises at least two heat exchanger members, each enclosing a respective first channel (12), wherein a second channel (7) is formed between the at least two heat exchanger members (10, 10'). At least one of the heat exchanger members presents through hole providing access from outside the heat exchanger to the second channel.

IPC 8 full level

**F28D 9/00** (2006.01); **F28F 3/04** (2006.01); **F28F 9/02** (2006.01)

CPC (source: CN EP SE US)

**F28D 1/0308** (2013.01 - SE); **F28D 9/00** (2013.01 - CN); **F28D 9/0043** (2013.01 - EP SE US); **F28F 3/00** (2013.01 - SE US); **F28F 3/044** (2013.01 - EP US); **F28F 3/083** (2013.01 - CN); **F28F 3/10** (2013.01 - CN); **F28F 9/0251** (2013.01 - EP US); **F28D 2021/0089** (2013.01 - EP US); **F28F 2220/00** (2013.01 - EP US); **F28F 2240/00** (2013.01 - EP US); **F28F 2275/025** (2013.01 - EP US); **F28F 2275/04** (2013.01 - EP US); **F28F 2275/06** (2013.01 - EP US); **F28F 2275/122** (2013.01 - EP US); **F28F 2280/06** (2013.01 - EP US)

Citation (applicant)

- WO 9013394 A1 19901115 - TORELL AB [SE]
- WO 2004027334 A1 20040401 - VALEO ENGINE COOLING AB [SE], et al
- JP 2005337528 A 20051208 - CALSONIC KANSEI CORP

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2011159227 A1 20111222**; BR 112012031685 A2 20161108; BR 112012031685 B1 20201229; CN 102939509 A 20130220; CN 102939509 B 20160706; CN 106123652 A 20161116; CN 106123652 B 20190405; EP 2583046 A1 20130424; EP 2583046 A4 20141119; EP 2583046 B1 20181212; EP 2594885 A2 20130522; EP 2594885 A3 20171213; EP 2594885 B1 20190515; JP 2013528779 A 20130711; PL 2583046 T3 20190628; PL 2594885 T3 20191231; SE 1050615 A1 20111217; SE 536042 C2 20130409; US 2013092359 A1 20130418

DOCDB simple family (application)

**SE 2011050713 W 20110610**; BR 112012031685 A 20110610; CN 201180027873 A 20110610; CN 201610473751 A 20110610; EP 11796046 A 20110610; EP 12195825 A 20110610; JP 2013515294 A 20110610; PL 11796046 T 20110610; PL 12195825 T 20110610; SE 1050615 A 20100616; US 201113704873 A 20110610