

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMEÜBERTRÄGER

Title (fr)
ÉCHANGEUR DE CHARGEUR

Publication
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Application
EP 12810226 A 20121218

Priority

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Abstract (en)

[origin: WO2013092644A2] The invention relates to a heat exchanger, comprising a first tube/fin block, first headers arranged on both sides of the first tube/fin block, which first headers communicate with the tubes of the first tube/fin block, and a second tube/fin block having second headers arranged on both sides of the second tube/fin block, which second headers communicate with the tubes of the second tube/fin block, wherein the first tube/fin block having the corresponding first headers is an air-cooled low-temperature coolant cooler and the second tube/fin block having the corresponding second headers is an air-cooled refrigerant cooler, wherein the headers of the first tube/fin block arranged on a respective side of the tube-fin block and a header of the second tube/fin block are connected to one another.

IPC 8 full level

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Citation (search report)

See references of WO 2013092644A2

Citation (examination)

- EP 2051037 A1 20090422 - CALSONIC KANSEI CORP [JP]
- JP 2005343221 A 20051215 - CALSONIC KANSEI CORP
- WO 2008072730 A1 20080619 - CALSONIC KANSEI CORP [JP], et al
- EP 2730439 A1 20140514 - CALSONIC KANSEI CORP [JP]
- US 2005274507 A1 20051215 - SANADA RYOUICHI [JP], et al
- US 2008115528 A1 20080522 - YAMAMOTO KOICHI [JP], et al
- JP 2001174168 A 20010629 - DENSO CORP
- US 2007056718 A1 20070315 - YAMAMOTO KOICHI [JP], et al
- EP 2317265 A2 20110504 - BEHR GMBH & CO KG [DE]
- EP 1464906 A2 20041006 - CALSONIC KANSEI CORP [JP]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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