

Title (en)

Heat exchanger, heat exchanger system and method for using heat of a fluid giving off heat

Title (de)

Wärmeübertrager, Wärmeübertrager-System und Verfahren zur Nutzung von Wärme eines wärmeabgebenden Fluids

Title (fr)

Caloporteur, système de caloporteur et procédé d'utilisation de la chaleur d'un liquide émettant de la chaleur

Publication

EP 2221567 A3 20140101 (DE)

Application

EP 10151674 A 20100126

Priority

DE 102009010059 A 20090221

Abstract (en)

[origin: EP2221567A2] A heat exchanger (1) comprises a vertical central longitudinal axis, a main body (25) formed as a hollow heat exchanger, a central longitudinal axis above the heat exchanger main body and a fluid inlet opening (7). A fluid outlet opening (8) is provided with the central longitudinal axis below the heat exchanger main body. A coolant-inlet opening is arranged with the central longitudinal axis below the heat exchanger main body. A coolant-outlet opening (13) is arranged with the central longitudinal axis above the heat exchanger main body. A heat exchanger comprises a vertical central longitudinal axis, a main body formed as a hollow heat exchanger, a central longitudinal axis above the heat exchanger main body and a fluid inlet opening. A fluid outlet opening is provided with the central longitudinal axis below the heat exchanger main body. A coolant-inlet opening is arranged with the central longitudinal axis below the heat exchanger main body. A coolant-outlet opening is arranged with the central longitudinal axis above the heat exchanger main body. The fluid-inlet opening is connected to the heat exchanger main body, where the coolant-inlet opening is connected to the heat exchanger main body. Independent claims are also included for: (1) a heat exchanger system, which comprises a heat exchanger, a coolant pipe for connecting cooling medium openings, and a coolant piping connected with heating pipe; and (2) a method for using heat-emitting heat fluid, particularly exhaust heat of an asphalt mixing plant, which involves cooling heat-emitting fluid in a heat exchanger, where the coolant is transferred in a coolant pipe from the heat exchanger.

IPC 8 full level

F28D 7/16 (2006.01); **E01C 19/10** (2006.01); **F28D 15/00** (2006.01); **F28F 1/04** (2006.01)

CPC (source: EP)

E01C 19/1063 (2013.01); **F28D 7/1684** (2013.01); **F28D 15/00** (2013.01); **F28F 1/04** (2013.01); **F28D 21/0003** (2013.01); **F28D 2021/0045** (2013.01)

Citation (search report)

- [X1] UA 76301 C2 20060717 - SUBSIDIARY NEKSUS PRODUCTION A [UA]
- [XY1] DE 3830800 C1 19900419
- [YA] US 3135322 A 19640602 - NEUGEBAUER FRANZ J
- [XY1] DE 8324969 U1 19861002
- [YA] DE 1008331 B 19570516 - WAAGNER BIRO AG
- [Y] AT 28099 B 19070410 - DAUCHER & MANZ FA
- [A] GB 152734 A 19201014 - ERNEST JOSEPH RICHARDS

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2221567 A2 20100825; EP 2221567 A3 20140101; DE 102009010059 A1 20100826

DOCDB simple family (application)

EP 10151674 A 20100126; DE 102009010059 A 20090221