

Title (en)

A heat exchanger with a silicon carbide set of tubes and double tube plates in enamelled steel

Title (de)

Wärmetauscher mit Siliziumkarbid-Röhren und emaillierten Stahl-Rohrplatten

Title (fr)

Echangeur de chaleur avec tubes en carbure de silicium et plaques tubulaires en acier émaillé

Publication

EP 1422488 B2 20170125 (EN)

Application

EP 03005976 A 20030318

Priority

IT MI20022449 A 20021119

Abstract (en)

[origin: EP1422488A2] A heat exchanger comprising a set of tubes (11) consisting of silicon carbide (SiC) tubes mounted between two tube plates (12,21) in enamelled steel by means of a pressure seal system (22-24) along which the tube (11) may slide to compensate for thermal expansions.

IPC 8 full level

F28F 9/02 (2006.01); **F28F 9/10** (2006.01); **F28F 19/02** (2006.01); **F28F 21/04** (2006.01)

CPC (source: EP)

F28F 9/0229 (2013.01); **F28F 9/10** (2013.01); **F28F 19/02** (2013.01); **F28F 21/04** (2013.01); **F28F 2265/26** (2013.01)

Citation (opposition)

Opponent :

- GB 2234807 A 19910213 - L & M RADIATOR INC [US]
- GB 618236 A 19490218 - JAMES CLARENCE HOBBS

Cited by

CN110274507A; BE1021633B1; CN114427601A; CN102278911A; CN103837022A; CN111678363A; CN110243225A; US8105649B1; US11378342B2; WO2019166493A1; WO2019229148A1; WO2011138444A1; US9429365B2

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EP 1422488 A2 20040526; **EP 1422488 A3 20111214**; **EP 1422488 B1 20140226**; **EP 1422488 B2 20170125**; EP 2685201 A2 20140115; EP 2685201 A3 20140226; EP 2685201 B1 20201111; ES 2835223 T3 20210622; IT MI20022449 A1 20040520

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