

Title (en)

HEAT EXCHANGER DEVICE AND METHOD FOR COOLING THE INNER CHAMBER THEROF

Title (de)

WÄRMEAUSTAUSCHVORRICHTUNG UND VERFAHREN ZUR KÜHLUNG DER AUSSENWAND DIESER VORRICHTUNG

Title (fr)

DISPOSITIF D'ECHANGE THERMIQUE ET PROCEDE DE REFROIDISSEMENT DE L'ENCEINTE D'UN TEL DISPOSITIF

Publication

**EP 0688421 A1 19951227 (FR)**

Application

**EP 94909960 A 19940314**

Priority

- FR 9400273 W 19940314
- FR 9303061 A 19930317

Abstract (en)

[origin: WO9421979A1] A device including a side wall (3) and bottom walls (4, 5) together forming a metal vessel (2) containing a core (7) for exchanging heat between two fluids, i.e. preferably counter-flowing heating and heated fluids. The core is arranged vertically within the chamber and radiates heat towards the inner surface of the side wall through an intermediate space (24) provided between said wall and the core and filled with a fluid which is the same as or different from one of the fluids flowing therethrough. The chamber is cooled both by exposing the side wall (3) to the atmosphere and by using a thermosiphon effect to cause the fluid in the intermediate space (24) to flow through a closed circuit (30) including said intermediate space and at least one pipe (31) located outside the chamber and connected thereto at two vertically spaced points. The device may be used in oil industry exchangers.

IPC 1-7

**F28F 9/00**; **F28D 9/00**

IPC 8 full level

**F28D 9/00** (2006.01); **F28F 9/00** (2006.01)

CPC (source: EP US)

**F28D 9/0006** (2013.01 - EP US); **F28F 9/00** (2013.01 - EP US); **F28F 2265/26** (2013.01 - EP US); **Y10S 165/905** (2013.01 - EP US)

Citation (search report)

See references of WO 9421979A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**WO 9421979 A1 19940929**; AU 6260494 A 19941011; DE 69406112 D1 19971113; DE 69406112 T2 19980430; EP 0688421 A1 19951227; EP 0688421 B1 19971008; FR 2702831 A1 19940923; FR 2702831 B1 19950524; US 5695007 A 19971209

DOCDB simple family (application)

**FR 9400273 W 19940314**; AU 6260494 A 19940314; DE 69406112 T 19940314; EP 94909960 A 19940314; FR 9303061 A 19930317; US 52234895 A 19950914