Title (en)

Heat exchanger with secondary fluid fed at the top through an overflow

Title (de)

Wärmetauscher mit oben durch einen Überlauf gespeistes Sekundärfluid

Title (fr)

Echangeur de chaleur dans lequel l'alimentation en fluide secondaire s'effectue en partie haute par un déversoir

Publication

EP 0607071 B1 19970416 (FR)

Application

EP 94400047 A 19940107

Priority

FR 9300170 A 19930111

Abstract (en)

[origin: FR2700383A1] Heat exchanger has an outer envelope (28) and a bundle envelope (26) with a common vertical axis and between them forming an annular space (30). Sec. fluid supply means is located in an upper area of annular space (30). Supply pipe (44) traverses outer envelope (28) and communicates with the sec. fluid supply means. Overflow or weir is placed in the upper area of the annular space (30) and extends over at least part of the circumference of space (30). Overflow has a horizontal upper edge.Supply pipe (44) issues into the overflow entirely at a level below the level of the edge. Deflecting wall is positioned in front of the edge and extends downwards and obliquely below the edge. This is so that sec. flow admitted into the overflow by the supply pipe (44) and which is discharged over the edge, flows downwards into the annular space (30) along the deflecting wall

IPC 1-7

F22B 37/22; F22B 1/02

IPC 8 full level

F22B 37/22 (2006.01)

CPC (source: EP KR US)

F22B 37/228 (2013.01 - EP KR US); F28D 2021/0054 (2013.01 - KR)

Cited by

FR2778222A1

Designated contracting state (EPC)

BE DE FR SE

DOCDB simple family (publication)

FR 2700383 A1 19940713; **FR 2700383 B1 19950210**; CA 2113046 A1 19940712; CN 1061139 C 20010124; CN 1093459 A 19941012; DE 69402565 D1 19970522; DE 69402565 T2 19971113; EP 0607071 A1 19940720; EP 0607071 B1 19970416; KR 100308868 B1 20011215; KR 940018644 A 19940818; TW 229318 B 19940901; US 5396948 A 19950314

DOCDB simple family (application)

FR 9300170 A 19930111; CA 2113046 A 19940107; CN 94101773 A 19940110; DE 69402565 T 19940107; EP 94400047 A 19940107; KR 19940000329 A 19940111; TW 83100142 A 19940110; US 17965794 A 19940111