

Title (en)

BRAZED-PLATE HEAT EXCHANGER AND AIR DISTILLATION DEVICE FITTED WITH SAID EXCHANGER

Title (de)

WÄRMETAUSCHER MIT HARTGELÖTETEN PLATTEN UND LUFTZERLEGUNGSANLAGE MIT DIESEM WÄRMETAUSCHER

Title (fr)

ECHANGEUR DE CHALEUR A PLAQUES BRASEES ET APPAREIL DE DISTILLATION D'AIR EQUIPE D'UN TEL ECHANGEUR

Publication

EP 1159573 A1 20011205 (FR)

Application

EP 00909400 A 20000301

Priority

- FR 0000510 W 20000301
- FR 9902503 A 19990301

Abstract (en)

[origin: FR2790546A1] The heat exchanger can be used for the vaporization of a pressurized liquid and comprises at least one passage way (P) for a liquid extending in a first direction, being provided with exchange waves (7) that are substantially parallel to the first direction and comprising at least one redistribution area (5) associated with at least one lateral collector (6) in an intermediate area of the length thereof, in addition to being provided with deviation waves (8) extending in at least one second direction forming an angle with the first direction, whereby the redistribution area takes up the entire width of the passage way, in a crosswise position with respect to the first direction, whereby the deviation waves (8) communicate with the exchange waves (7). The deviation waves (8) are essentially as rigid as the exchange waves (7) . The invention can be used with exchangers in pumped air-distillation devices.

IPC 1-7

F28D 9/00; **F25J 3/00**

IPC 8 full level

F25J 3/00 (2006.01); **F25J 3/04** (2006.01); **F28D 9/00** (2006.01)

CPC (source: EP US)

F25J 3/0409 (2013.01 - EP US); **F25J 5/002** (2013.01 - EP US); **F28D 9/0068** (2013.01 - EP US); **F25J 2245/50** (2013.01 - EP US); **F25J 2290/32** (2013.01 - EP US); **F25J 2290/44** (2013.01 - EP US); **Y10S 62/903** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

FR 2790546 A1 20000908; **FR 2790546 B1 20010420**; CA 2363506 A1 20000908; CN 1187568 C 20050202; CN 1342258 A 20020327; DE 60017245 D1 20050210; DE 60017245 T2 20060223; EP 1159573 A1 20011205; EP 1159573 B1 20050105; JP 2002538409 A 20021112; US 6745828 B1 20040608; WO 0052408 A1 20000908

DOCDB simple family (application)

FR 9902503 A 19990301; CA 2363506 A 20000301; CN 00804427 A 20000301; DE 60017245 T 20000301; EP 00909400 A 20000301; FR 0000510 W 20000301; JP 2000602580 A 20000301; US 91484501 A 20010904