

Title (en)

METHOD OF CREATING AN OPTIMUM HEAT EXCHANGE IN AN ASSEMBLY COMPRISING A THERMALLY-CONDUCTIVE ABSORBENT PLATE AND A HEAT-TRANSFER FLUID

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES OPTIMALEN WÄRMEAUSTAUSCHS IN EINER ANORDNUNG MIT EINER WÄRMELEITENDEN UND SAUGFÄHIGEN PLATTE UND EINER WÄRMEÜBERTRAGENDEN FLÜSSIGKEIT

Title (fr)

PROCEDE PERMETTANT D'ASSURER UN ECHANGE THERMIQUE OPTIMAL AU SEIN D'UN ENSEMBLE CONSTITUE D'UNE PLAQUE ABSORBANTE THERMIQUEMENT CONDUCTRICE ET D'UN FLUIDE CALOPORTEUR.

Publication

**EP 1869373 A1 20071226 (FR)**

Application

**EP 06743596 A 20060320**

Priority

- FR 2006000650 W 20060320
- FR 0502752 A 20050321

Abstract (en)

[origin: WO2006100393A1] The invention relates to a method of optimising heat exchanges between (i) a thermally-conductive absorbent plate (1) which is exposed to thermal radiation and a heat-transfer fluid (3) circulating in at least one thermally-conductive conduit tube (2) that is in thermal contact with the plate (1) and (ii) within the heat-transfer fluid (3). The invention is characterised in that, in order to promote heat exchanges, the method uses zones of the aforementioned plate (1) in order to form part of the wall of the conduit tube (2), such that the heat-transfer fluid (3) is in direct contact with the plate (1) so as to reduce the thermal resistance between the plate (1) and the heat-transfer fluid (3) circulating inside the conduit tube (2), said conduit tubes (2) being disposed on the two faces of the plate (1) and being interconnected by means of holes (4) that provided on the plate.

IPC 8 full level

**B21D 53/04** (2006.01); **F24S 10/70** (2018.01); **F24S 10/75** (2018.01)

CPC (source: EP US)

**F24S 10/75** (2018.04 - EP US); **F24S 80/30** (2018.04 - EP US); **Y02E 10/44** (2013.01 - EP US)

Citation (search report)

See references of WO 2006100393A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**FR 2883364 A1 20060922**; **FR 2883364 B1 20070928**; CN 101166940 A 20080423; EP 1869373 A1 20071226; US 2008277096 A1 20081113; US 8136583 B2 20120320; WO 2006100393 A1 20060928

DOCDB simple family (application)

**FR 0502752 A 20050321**; CN 200680013963 A 20060320; EP 06743596 A 20060320; FR 2006000650 W 20060320; US 90935206 A 20060320