Title (en)
RADIANT HEAT MODULE WITH PCM

Title (de)
STRAHLUNGSWÄRMEMODUL MIT PCM

Title (fr)
MODULE DE CHAUFFAGE PAR RAYONNEMENT À PCM

Publication
EP 4350223 A1 20240410 (EN)

Application
EP 22020478 A 20221003

Priority
EP 22020478 A 20221003

Abstract (en)
A module for radiant heating, having a studded plate for holding a tube with heating and/or cooling fluid. The studded plate has studs arranged as pockets for being filled with PCM, whereby the PCM exchanges heat with said tube. A stud filled with the PCM, is air- and watertight sealed with a sealing sheet, independently of a sealing of other studs on the plate. The studded plate comprises an inner section filled with the PCM, and an outer section of studs situated around at least one side of the studded plate, whereby these outer studs are left empty and open at the side of the plate, thereby allowing studs of a second studded plate, to be releasably clickable into the open studs of the studded plate. The plate may be provided with an insulating EPS underlayer.

IPC 8 full level
F24D 3/14 (2006.01)

CPC (source: EP)
E04C 2/525 (2013.01); **F24D 3/14** (2013.01); **F24D 3/142** (2013.01); **F28D 20/023** (2013.01); E04F 13/0869 (2013.01); E04F 2290/023 (2013.01); F24D 2220/10 (2013.01)

Citation (applicant)
- JP 2009074743 A 20090409 - CHUBU ELECTRIC POWER, et al
- NL 1038152 C2 20120207 - UNIFLOOR B V [NL], et al

Citation (search report)
- [IY] DE 102005027495 A1 20070111 - ESTROLITH GMBH & CO KG [DE]
- [I] DE 20306860 U1 20030911 - UPONOR INNOVATION AB [SE]
- [Y] DE 20015658 U1 20001214 - ROTH WERKE GMBH [DE]
- [IA] EP 1369646 A1 20031210 - WISCHEMANN INGO [DE]
- [A] EP 2876375 A2 20150527 - SCHLUTER SYSTEMS LP [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

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DOCDB simple family (application)
DE 202022105601 U 20221004; EP 22020478 A 20221003; NL 1044428 A 20221004