

Title (en)

Floor module and method for heating outdoor environments via said module

Title (de)

Bodenmodul und Verfahren zum Erwärmen von Umgebungen im Freien mit dem Modul

Title (fr)

Module de plancher et procédé de chauffage d'environnements extérieurs via ledit module

Publication

EP 2647922 A1 20131009 (EN)

Application

EP 12163252 A 20120404

Priority

EP 12163252 A 20120404

Abstract (en)

A floor module (1) comprising a walking surface (2) provided with apertures (20) for the air passage, and a supporting structure (3) intended to support the walking surface (2) and to keep it elevated from the ground are described. The module further comprises a pre-heating chamber (30) provided with an air inlet aperture (9) for drawing air from underneath the walking surface (2) and a heating device (10) for heating the drawn air; and further a heating chamber (31) provided with a second heating device (7) and in fluid communication with the pre-heating chamber (30) and with a space outside the module (1) through the apertures (20) of the walking surface (2), such to heat the air drawn from the pre-heating chamber (31) and to leave it out through the walking surface (2). The heating chamber (31) and pre-heating chamber (30) are delimited at the top by the bottom (22) of the walking surface (2), said bottom (22) being made of a material with a thermal conductivity greater than the portion (210) of the walking surface intended to be walked on. A method for heating a space by such floor module is also described.

IPC 8 full level

F24H 3/00 (2006.01); **E01C 11/26** (2006.01)

CPC (source: EP)

E01C 11/26 (2013.01); **F24H 3/0411** (2013.01)

Citation (applicant)

- US 2007102243 A1 20070510 - RUMINSKI DANIEL [US]
- WO 2011141189 A2 20111117 - VIGNI MARINA [IT], et al

Citation (search report)

- [I] DE 202010017267 U1 20110826 - DOLL ULRICH [DE], et al
- [XD] WO 2011141189 A2 20111117 - VIGNI MARINA [IT], et al
- [A] DE 1035678 B 19580807 - ROBERT VON LINDE DIPL ING

Cited by

CN111809933A; CN114800970A; WO2017120230A1

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 MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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