

Title (en)

HEATABLE PANEL AND ITS MANUFACTURING METHOD

Title (de)

BEHEIZBARE PLATTE UND IHR HERSTELLUNGSVERFAHREN

Title (fr)

PANNEAU CHAUFFABLE ET PROCÉDÉ DE FABRICATION DE CELUI-CI

Publication

EP 3809600 A1 20210421 (EN)

Application

EP 19823534 A 20190423

Priority

- ES 2019070276 W 20190423
- ES 201830593 A 20180618

Abstract (en)

The present invention consists of a heating panel which uses, as a power source, electrical energy that is to be converted into thermal energy. To that end, the obtained solution is based on obtaining a sheet (1) of recyclable, lightweight conductive polymer which, as a result of the addition of conductive additives, can change its thermal and electrical properties and replace heat-generating metallic resistors when this type of heating is required. The sheet with conductive particles added as additive forms part of a heatable panel which produces thermal energy when an electric current is applied, such that in order to carry out this process, said panel comprises, in addition to the conductive sheet, metallic electrodes (6) mechanically connected to the sheet, a first temperature-insulating layer (3), a second electricity-insulating layer (2), and a thermocouple sensor (5) attached to the sheet configured for measuring the internal temperature of the heatable panel.

IPC 8 full level

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