

Title (en)

FILLING A CAVITY OF A THERMAL BREAK PROFILE WITH THERMALLY INSULATING MATERIAL

Title (de)

FÜLLEN EINER KAVITÄT EINES THERMOSPERRENPROFILS MIT WÄRMEDÄMMATERIAL

Title (fr)

REMPLISSAGE D'UNE CAVITÉ D'UN PROFIL DE RUPTURE THERMIQUE PAR UN MATÉRIAU THERMIQUEMENT ISOLANT

Publication

**EP 3293337 B1 20231220 (EN)**

Application

**EP 17189624 A 20170906**

Priority

IT 201600091455 A 20160909

Abstract (en)

[origin: EP3293337A1] A method for filling with thermally insulating material a cavity of a thermal break profile is described. The method provides for forming a thermally expandable profile comprising a thermally expandable composition. The composition is suitable for expanding under the pressure exerted by an expansion gas produced within the composition itself at a first temperature  $T_E$ . The thermally expandable profile has a cross-section smaller than the cross-section of the cavity to be filled. The thermally expandable profile is inserted inside the cavity and subjected to a heat treatment at a second temperature  $T_V$  greater than or equal to  $T_E$ . In this way, the expansion gas is produced and exerts a pressure inducing the thermally expandable profile to expand and fill the cavity. Expansion under the action of the expansion gas allows completely filling the whole cavity, even if its cross-section shape is complex.

IPC 8 full level

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CPC (source: EP)

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