

Title (en)

FASTENING HEAD WITH SPACER USED IN THE COVERING OF VARIOUS BUILDINGS

Publication

EP 0297956 B1 19910925 (FR)

Application

EP 88401589 A 19880623

Priority

FR 8708941 A 19870625

Abstract (en)

[origin: EP0297956A1] The spacer (E) comprises a foot (3) having a polygonal cross-section, generally having a cross-section in the shape of a rectangular parallelogram wedging, by rotation between 0 and 180 DEG , into the hollow stiffening profiles (2) of the metal sheet (1), each foot (3) being surmounted by a star-shaped surface (5) and then prolonged by a rod or vertical column (6) terminated by a head (7) to which is fixed, by means of a screw or similar component, the plate-shaped upper fixing element (11). <??>The spacer (E) is made from an insulating plastic avoiding the creation of a thermal bridge. <??>The head (7a) of the spacer (E) having either a truncated-cone shape or a cylindrical shape is hollow in order to enable a retention component of the upper fixing element (11) to be installed. <??>The upper fixing elements (11) or plate are suitably stiffened by ribbing and all have a central hole (15) for the passage of retention elements of the screw kind (10) or the like, these upper fixing elements being produced from either a metal or a plastic. <IMAGE>

IPC 1-7

E04D 3/36; **E04F 13/08**

IPC 8 full level

E04D 3/36 (2006.01); **E04F 13/08** (2006.01)

CPC (source: EP US)

E04D 3/3603 (2013.01 - EP US); **E04D 3/3608** (2013.01 - EP US)

Cited by

FR2686359A1; EP0767283A1; GB2321261A; GB2321261B; EP0844343A1; FR2755989A1

Designated contracting state (EPC)

AT BE CH DE GB LI LU NL SE

DOCDB simple family (publication)

EP 0297956 A1 19890104; **EP 0297956 B1 19910925**; AT E67812 T1 19911015; DE 3865116 D1 19911031; FR 2617221 A1 19881230; FR 2617221 B1 19920424; US 4894970 A 19900123

DOCDB simple family (application)

EP 88401589 A 19880623; AT 88401589 T 19880623; DE 3865116 T 19880623; FR 8708941 A 19870625; US 21232988 A 19880627