

Title (en)

APPARATUS FOR THE CROSS-WISE CONNECTION OF VERTICAL AND HORIZONTAL RAILS, ESPECIALLY OF A BACKING SUPPORT
CONSTRUCTION OF FACADE CLADDINGS

Publication

EP 0032574 B1 19840613 (DE)

Application

EP 80108089 A 19801220

Priority

DE 3000953 A 19800112

Abstract (en)

[origin: EP0032574A1] 1. A device for joining horizontal and vertical rails (10, 20) crosswise, in particular for facade supporting structures, into which joints and fastenings (12) are introduced via openings in the area where the rails cross, the joints and fastenings bracing the rails against each other with the following characteristics the openings in the rails (10, 20) are rectangular windows (11, 21) with their longest dimension being aligned with the longitudinal or the transverse direction of the rails (10, 20) respectively ; joints and fastenings are designed as tension bolts (12) with a tension collar (13) on the front and a tension web (17), which is tailored to the cross section of the windows (11, 21), on the rear side ; tension collar (13) and tension web (17) are connected via a distance spacer (15), the axial length of which is sized to the sum of the thicknesses of both rails (10, 20) in the area where they are joined to each other, the cross section of the spacer being such as to allow for twisting it inside the windows (11, 21) of the rails (10, 20) and/or bracing it in the direction of their smaller dimensions.

IPC 1-7

F16B 7/04

IPC 8 full level

E04B 2/88 (2006.01); **E04F 13/08** (2006.01); **F16B 7/04** (2006.01)

CPC (source: EP)

E04B 2/88 (2013.01); **E04F 13/0803** (2013.01)

Citation (examination)

- DE 7119423 U
- DE 7216065 U
- US 3659884 A 19720502 - OHLIN BROR ERIC GUSTAV
- DE 2835274 A1 19790222 - VICTAULIC CO OF AMERICA
- US 3228716 A 19660111 - LESLIE PARKIN

Cited by

CN105220773A; CN104790534A; DE10146492A1; DE10146492B4

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