

Title (en)

Structural connection of door leaf and door frame

Title (de)

Strukturelle Verbindung von Türblatt und Türrahmen

Title (fr)

Connexion de structure de battant de porte et cadre de porte

Publication

**EP 2631407 B1 20220518 (EN)**

Application

**EP 13460010 A 20130220**

Priority

PL 39820512 A 20120222

Abstract (en)

[origin: EP2631407A2] The subject of the invention is the structural connection of door leaf and door frame, the task of which is to ensure diversified thermal insulation depending on the needs while applying the same base profiles of frame and door leaf. The structural connection of door leaf and door frame, is comprised of a thin-wall frame profile and a thin-wall door leaf profile composed of a dimensional compound profile circumflexing the glazed panel secured at its perimeter with a thermal insulating insert and sealed on one side of the glazed panel with an external panel gasket and with an internal pane gasket pressed by a glazing strip on the other side. The thin-wall profile ( 3 ) of the frame ( 2 ) has three closed chambers ( 9 ) , ( 10 ) , ( 11 ) , where the internal chamber ( 10 ) has opposite trapezoid sockets ( 12 ) , ( 12' ) for the fixed connection with trapezoid protrusions ( 13 ) , ( 13' ) of the spacers ( 14 ) , ( 15 ) while the thin-wall profile ( 4 ) of the door leaf ( 1 ) has three closed chambers ( 16 ) , ( 17 ) , ( 18 ) , while the internal chamber ( 17 ) has trapezoid sockets ( 19 ) , ( 19' ) for the fixed connection with trapezoid protrusions ( 20 ) , ( 20' ) of the profile spacers ( 21 ) , ( 22 ) , while in the space ( 23 ) between the door leaf ( 1 ) and the frame ( 2 ) , masking gaskets ( 24 ) , ( 24' ) are located, the profile, trapezoid protrusions of which ( 25 ) , ( 25' ) are inserted into the rhombus-shaped sockets ( 26 ) , ( 26' ) of the profile spacer ( 15 ) . ( 21 ) , while between the door leaf ( 1 ) and frame ( 2 ) closing strips have been placed ( 8 ) , ( 8' ) .

IPC 8 full level

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CPC (source: EP)

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