

Title (en)
Connecting element

Title (de)
Verbindungselement

Title (fr)
Élément de raccord

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Application
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Abstract (en)
[origin: EP0477513A2] The invention relates to a window-bar hollow section made of metal, in particular aluminium, for an insulating glazing unit, having a longitudinal weld which is arranged invisibly in a section recess. The invention also relates to a method for producing the window-bar hollow section, a colour-plated or anodised strip, in particular of aluminium, preferably being used, in which the longitudinal edges of the strip are formed into a tube by being bent towards one another until they abut, whereupon the longitudinal edges are welded and the tube is further profiled to form the hollow section with predetermined cross-sectional form, and a section recess being formed into the tube in the region of the weld directly after the welding operation in such a way that the weld is situated at the bottom of the section recess so that it cannot be seen from the outside. The invention furthermore relates to a window-bar construction for mounting between two panes of glass, in particular window panes with window-bars consisting of a hollow section, in particular of window-bar hollow sections of the abovementioned type, at least one window-bar cross being formed by attaching to a main hollow section at a predetermined angle at least two mutually aligned transverse sections which surround the main profile in an overlapping manner. To make it possible for the window-bar construction under discussion to be built up on the basis of extremely thin hollow sections, the invention provides that a skeleton be used as connection elements for the particular hollow sections, on which skeleton the hollow sections are placed. Said skeleton comprises a pin which passes through the main section and is fixedly connected to connection elements which are firmly fitted into the transverse hollow sections, insertion openings for the pin being provided in the main section which are dimensioned in such a way that the pin is guided essentially without play in the plane of the window-bar cross but with play transversely with respect to said plane.

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• [A] GB 2220694 A 19900117 - ASHTON IND SALES LIMITED [GB]
• [A] DE 2637034 A1 19780223 - LINGEMANN HELMUT
• [A] DE 3638355 A1 19880511 - FUEHRER ANDREAS [DE]
• [A] DE 8913616 U1 19900104

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HU 270291 A 19910814; JP 26251091 A 19910917; NO 913227 A 19910819; PL 29181291 A 19910924; RU 95105461 A 19950414;
SK 268491 A 19910830; SU 5001553 A 19910924; TR 10493 A 19910919; TR 89691 A 19910919