

Title (en)

Plastic plug connector for hollow spacers and transom profiles in multiple insulating glazing

Title (de)

Steckverbinder aus Kunststoff zur Verbindung von hohlen Abstandsprofilen und hohlen Sprossenprofilen eines Mehrscheibenisolierrglases

Title (fr)

Raccord enfichable en matière plastique pour profilés intercalaires creux et pour profilés creux de croisillon d'un vitrage multiple isolant

Publication

EP 1227210 B1 20060524 (DE)

Application

EP 01127873 A 20011122

Priority

DE 20101486 U 20010129

Abstract (en)

[origin: US2002102127A1] Linear connector of plastic material for joining hollow spacing profiles A, B and hollow bar profiles of a multiple insulating glass, comprising a flat, longitudinal body which is to be inserted with its one end into the spacing profile A and with its other end into the spacing profile B, the surfaces of which are provided with an abutment element positioned in the center of the linear connector, which abutment element touches the front faces C and D of the spacing profiles on insertion of the linear connector into the spacing profiles which are to be connected to one another, wherein the mentioned longitudinal body comprises a double-T-cross-section the distantly parallel and horizontal crossbars of which being connected by at least one vertical center bar and contacted at least partly in the mounted condition of the linear connector by the opposing surfaces of the inner wall of the spacing profiles. In order to improve the sealing effect of the linear connector as well as its seat within the hollow spaces of the metallic spacing profiles which are to be connected to one another and to avoid that the gap between the spacing profile bodies arises after mounting the linear connector it is proposed that at least one of the two cross-bars of the double-T-cross-section is provided in the center of its length with a recess making visible the surfaces of the spacing profiles in their mounted condition within the area of their ends comprising the front faces of the spacing profiles positioned opposite to one another so that welding of these ends by heat treatment is possible without melting the plastic material of the linear connector.

IPC 8 full level

E06B 3/667 (2006.01)

CPC (source: EP US)

E06B 3/667 (2013.01 - EP US); **Y10T 403/55** (2015.01 - EP US); **Y10T 403/559** (2015.01 - EP US)

Cited by

WO2012098008A1; DE102011009090B4; DE102011009090B9; US7757455B2; WO2007014720A1; DE102011009090A1; US10000964B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

US 2002102127 A1 20020801; **US 6709187 B2 20040323**; AT E327403 T1 20060615; CA 2368865 A1 20020729; DE 20101486 U1 20020613; DE 50109869 D1 20060629; EP 1227210 A2 20020731; EP 1227210 A3 20031022; EP 1227210 B1 20060524

DOCDB simple family (application)

US 5559202 A 20020123; AT 01127873 T 20011122; CA 2368865 A 20020122; DE 20101486 U 20010129; DE 50109869 T 20011122; EP 01127873 A 20011122