Title (en)

SPACER FOR INSULATING GLASS UNITS

Title (de)

ABSTANDHALTER FÜR ISOLIERGLASSCHEIBEN

Title (fr)

ENTRETOISE DESTINÉE À DES VITRAGES ISOLANTS

Publication

EP 2870313 A1 20150513 (DE)

Application

EP 13732187 A 20130628

Priority

- DE 102012105960 A 20120704
- DE 202012104026 U 20121019
- EP 2013063691 W 20130628

Abstract (en)

[origin: WO2014005950A1] In order to provide a spacer for insulating-glass units which, on the one hand, can be deformed by cold bending using conventional systems, but at the same time provides for the greatest possible level of thermal resistance, it is proposed that the spacer comprises a profile body which is made of a plastics material and has a substantially rectangular cross section with first and second side walls, which are arranged parallel to one another, and with an inner wall, which extends between the first and the second side walls, and an outer wall, which extends between the first and the second side walls, substantially parallel to the inner wall, and forms, with the profile body, a closed hollow profile, wherein a first wire-form primary reinforcing element and a second wire-form primary reinforcing element are arranged in the inner wall, parallel to the axial direction of the spacer profile, wherein the first primary reinforcing element is arranged in a first portion of the cross section of the profile body, in which the inner wall is adjacent to the first side wall, and wherein the second primary reinforcing element is arranged in a second portion of the cross section of the profile body, in which the inner wall is adjacent to the second side wall, such that the first and second primary reinforcing elements have not more than approximately 50% of their cross-sectional surface area arranged in the first and the second side walls, respectively, and that the distance between the centres of gravity of the cross-sectional surface areas of said reinforcing elements is approximately 40% of the distance between the side walls or more, but at least approximately 4 mm.

IPC 8 full level

E06B 3/663 (2006.01)

CPC (source: EP US)

E06B 3/66319 (2013.01 - EP US); **E06B 3/66328** (2013.01 - US); **E06B 3/66333** (2013.01 - US); E06B 2003/6638 (2013.01 - EP US); E06B 2003/66385 (2013.01 - US)

Citation (search report)

See references of WO 2014005950A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 202012104026 U1 20131007; CN 104428479 A 20150318; CN 104428479 B 20170718; DE 102012105960 A1 20140109; DK 2870313 T3 20190204; EP 2870313 A1 20150513; EP 2870313 B1 20181010; PL 2870313 T3 20190430; US 2015107167 A1 20150423; US 9683404 B2 20170620; WO 2014005950 A1 20140109

DOCDB simple family (application)

DE 202012104026 U 20121019; CN 201380035322 A 20130628; DE 102012105960 A 20120704; DK 13732187 T 20130628; EP 13732187 A 20130628; EP 2013063691 W 20130628; PL 13732187 T 20130628; US 201414579520 A 20141222