

Title (en)

A plastic spacer comprising a layer with overlapping segments of a substantially gas-impermeable material

Title (de)

Plastischer Abstandhalter mit einer Schicht mit überlappenden Segmenten eines im Wesentlichen gasundurchlässigen Materials

Title (fr)

Élément d'écartement en plastique comprenant une couche avec chevauchement des segments d'un matériau sensiblement imperméable aux gaz

Publication

EP 3009590 A1 20160420 (EN)

Application

EP 14188807 A 20141014

Priority

EP 14188807 A 20141014

Abstract (en)

The present invention relates to a spacer for creating a spacing between glass panes, wherein said spacer is made of a plastic material. The spacer is elongated and comprises two side surfaces as well as a top surface and a bottom surface with a layer having gas-impermeable characteristics, wherein this layer comprises multiple overlapping segments of a substantially gas-impermeable material. Further, the present invention relates to a method of manufacturing such a spacer and a window comprising glass panes being mutually spaced by such a spacer. By letting the segments overlap, it is ensured that gas-impermeability of the spacer is significantly increased. Further, the overlapping of segments results in that a spacer with such a layer can be bent without compromising the gas-impermeability. When bending a spacer in corners to correspond to the shape of a glass pane, then the segments in the layer will still overlap, whereby gas-impermeability is maintained in the corners. Further, the overlapping ensures that a foil with such overlapping segments can be mounted across corners without comprising gas impermeability.

IPC 8 full level

E06B 3/663 (2006.01)

CPC (source: EP)

E06B 3/66319 (2013.01)

Citation (applicant)

EP 0852280 A1 19980708 - SAINT GOBAIN VITRAGE SUISSE AG [CH]

Citation (search report)

[X] AU 2012365511 A1 20140717 - SAINT GOBAIN

Cited by

US10633914B2

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)

EP 3009590 A1 20160420; DE 202015009966 U1 20220126; DK 3207202 T3 20190415; DK 3207202 T4 20240212; EP 3207202 A1 20170823; EP 3207202 B1 20190130; EP 3207202 B2 20231206; HU E044087 T2 20191028; PL 3207202 T3 20190731; WO 2016058977 A1 20160421

DOCDB simple family (application)

EP 14188807 A 20141014; DE 202015009966 U 20151012; DK 15778667 T 20151012; EP 15778667 A 20151012; EP 2015073536 W 20151012; HU E15778667 A 20151012; PL 15778667 T 20151012