

Title (en)
Multiple glazing unit for insulation.

Title (de)
Mehrscheiben-Isolierglaseinheit.

Title (fr)
Unité de vitrages multiples isolante.

Publication
EP 0051208 A1 19820512 (DE)

Application
EP 81108582 A 19811020

Priority
DE 3040038 A 19801023

Abstract (en)
1. Multiple glazing unit for insulation comprising at least two parallel glass sheets (4a, 4b) and, positioned between the border zones of their surfaces that face each other, spacer frames (1), each of which is formed from profile tubes (5) and from angle pieces (6) which locate in the cavities of the profile tubes with pegs (12a, 12b) and which contain corner members with two lateral contact surfaces that are parallel with each other and with the glass sheets and lie essentially in the same planes as the lateral contact surfaces of the profile tubes, these surfaces being parallel with the glass sheets, and elastomer strips (2a, 2b) positioned between the contact surfaces of the spacer frames and the border zones and forming a vapour diffusion barrier, in which at least two closable gas feed or gas outlet holes (15) lead through the angle pieces of each spacer frame from the external side to the inter-sheet space (9) bounded by the spacer frame and the glass sheets, and in which the cavity of at least one profile tube of each spacer frame contains in at least a part of its longitudinal extent a dessicant (7) which is in contact with this inter-sheet space via openings, characterised in that each spacer frame (1) has at least one angle piece (6, 6'), which has between the corner member (11, 11') and at least one (12b, 12'b) of its two pegs (12a, 12'a, 12b, 12'b) a side piece (13, 13'), in which at least its lateral contact surfaces (13a) lie essentially in the same planes as the lateral contact surfaces (11a, 5a) of both the corner member (11, 11') and the profile tubes (5), and that through these side pieces (13, 13') extend the gas feed or gas outlet holes (15), the axes (15a) of which are essentially parallel with the lateral contact surfaces and perpendicular to the side piece (13, 13').

Abstract (de)
Zwei parallele Glasscheiben (4a,4b) enthalten einen zwischen den Randzonen (3a,3b) ihrer aufeinander zuweisenden Flächen angeordneten Distanzrahmen (1) der aus Profilrohren (5) und aus Winkelstücken (6) gebildet ist, welche mit Zapfen (12a,12b) in die Hohlräume (5c) der Profilrohre (5) einstecken und welche Eckkörper (11) mit zwei zueinander und zu den Glasscheiben (4a,4b) parallelen seitlichen Anlageflächen enthalten, die im wesentlichen in den gleichen Ebenen mit den zu den Glasscheiben (4a,4b) parallelen seitlichen Anlageflächen der Profilrohre liegen, sowie aus zwischen den Anlageflächen der Distanzrahmen und den Randzonen angeordneten, eine Dampfdiffusionssperre bildenden Elastomerstreifen (2a,2b) besteht. Jeder Distanzrahmen (1) weist mindestens ein Winkelstück (6) auf, welches zwischen dem Eckkörper (11) und mindestens dem einen (12b) seiner beiden Zapfen (12a,12b) ein Schenkelstück (13) enthält, dessen seitliche Anlageflächen jeweils mit den seitlichen Anlageflächen des Eckkörpers (11) und der Profilrohre (5) im wesentlichen in gemeinsamen Ebenen liegen und daß sich durch diese Schenkelstücke (13) die Gaseinfüll- bzw. Gasauslaßbohrungen (15) erstrecken, deren Achsen (15a) im wesentlichen parallel zu den seitlichen Anlageflächen und rechtwinklig zum Schenkelstück (13) verlaufen.

IPC 1-7
E06B 3/66; C03C 27/12

IPC 8 full level
C03C 27/12 (2006.01); **E06B 3/66** (2006.01); **E06B 3/667** (2006.01)

CPC (source: EP)
E06B 3/667 (2013.01)

Citation (search report)
• [XP] DE 8028304 U1 19810226
• [A] DE 7409051 U
• [A] DE 7933613 U1 19800424
• [A] DE 2410303 C3 19790208
• [A] DE 2462494 A1 19770707 - DELOG DETAG FLACHGLAS AG [DE]
• [A] AVIS TECHNIQUES, Nr. 6/77-63, Cahier du CSTB Nr. 1503, Mai 1978, Paris, SOCIETE BOUSSOIS S.A. "Avis sur le Vitrage Isolant Thermopane A2", seiten 1 bis 10

Cited by
EP0535305A1; DE3324646A1; GB2139685A; EP0256563A3; EP0569298A1; FR2690946A1; GB2149445A; GB2150182A; EP0256563A2

Designated contracting state (EPC)
AT BE CH FR GB IT LU NL SE

DOCDB simple family (publication)
EP 0051208 A1 19820512; EP 0051208 B1 19840620; AT E8069 T1 19840715; DE 3040038 A1 19820513; DE 3040038 C2 19851003

DOCDB simple family (application)
EP 81108582 A 19811020; AT 81108582 T 19811020; DE 3040038 A 19801023