

Title (en)  
PRE-DEFORMING SUPPORT STRUCTURE WORKPIECES FOR SUPPORT STRUCTURES OF VACUUM INSULATING GLASS UNITS

Title (de)  
VORVERFORMUNG VON STÜTZSTRUKTURWERKSTÜCKEN FÜR STÜTZSTRUKTUREN VON VAKUUMISOLIERGLASEINHEITEN

Title (fr)  
PRÉ-DÉFORMAGE DE PIÈCES DE STRUCTURE DE SUPPORT POUR STRUCTURES DE SUPPORT D'UNITÉS DE VERRE D'ISOLATION SOUS VIDE

Publication  
**EP 4357578 A1 20240424 (EN)**

Application  
**EP 22202427 A 20221019**

Priority  
EP 22202427 A 20221019

Abstract (en)  
The present disclosure relates to a method of producing a vacuum insulated glass (VIG) unit (1), wherein said method comprises: providing a plurality of support structures (5) comprising contact surfaces (5a, 5b), distributing the provided support structures (5) at a first glass sheet (3) so that one of said contact surfaces (5a, 5b) supports on a first major surface (3a) of the first glass sheet (3), arranging a second glass sheet (4) so that the distributed support structures (5) are placed in a gap (6) between the first major surface (3a) and a second major surface (4a) of the second glass sheet (4), providing an edge seal (7) arranged around the periphery of the glass sheets (3, 4), and evacuating and sealing said gap (6). The providing of the plurality of support structures comprises the steps of feeding support structure workpieces (10) to a deformation unit (20), and shaping support structures (5) by deforming the fed support structure workpieces (10) by means of the deformation unit (20) so as to provide support structures (5) comprising said contact surfaces (5a, 5b).

IPC 8 full level  
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**E06B 3/66304** (2013.01); **E06B 3/6733** (2013.01); **E06B 3/67369** (2013.01); **E06B 3/67386** (2013.01); **E06B 3/6775** (2013.01); **E06B 2003/66338** (2013.01)

Citation (applicant)  
• US 10533366 B2 20200114 - ÖZDEN UTKU AHMET [DK], et al  
• JP 2019060085 A 20190418 - YKK ARCHITECTURAL  
• US 6689241 B1 20040210 - DELHORME DAVID [FR], et al  
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Citation (search report)  
• [X] US 2010175347 A1 20100715 - BETTGER KENNETH J [US], et al  
• [X] DE 102010021127 A1 20111124 - GRENZEBACH MASCHB GMBH [DE]  
• [AD] US 6689241 B1 20040210 - DELHORME DAVID [FR], et al

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