

Title (en)  
WINDOW, DOOR OR FIXED GLAZING OF BULLETPROOF TYPE

Publication  
**EP 0253983 A3 19880907 (DE)**

Application  
**EP 87107242 A 19870519**

Priority  
DE 3624849 A 19860723

Abstract (en)  
[origin: US4879957A] An impact-impeding structure includes a pane which extends along a plane and has a front and a rear side, and an impact-impeding frame for the pane. The frame may include an outer frame member and an inner frame member received in the outer frame member, the frame members being provided at least at one of the front and rear sides of the pane with impact-impeding elements, and defining with one another a labyrinthine gap situated at a region of the impact-impeding elements and including a plurality of steps extending at least substantially parallel to the plane. The parts of the gap which interconnect the steps extend at an angle deviating from the normal to the plane of the pane and may have different widths which may decrease from the exterior to the interior of the frame arrangement. In the alternative or in addition, at least one frame of the frame arrangement may be provided with a plurality of internal chambers which are delimited by lateral limiting surfaces that extend at an acute angle with respect to the plane of the pane and which may accommodate respective inserts, or such frame may include a plurality of parts that contact each other at contact surfaces which extend at least in part at an acute angle with respect to the plane of the pane, such as by extending along sawtooth-shaped courses.

IPC 1-7  
**E06B 5/10**

IPC 8 full level  
**E06B 5/10** (2006.01); **E06B 3/263** (2006.01)

CPC (source: EP US)  
**E06B 5/106** (2013.01 - EP US); **E06B 2003/26389** (2013.01 - EP US)

Citation (search report)  
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• [XP] EP 0212325 A2 19870304 - VAW VER ALUMINIUM WERKE AG [DE]  
• [A] DE 2947420 A1 19810527 - SAELZER HEINRICH [DE]  
• [A] DE 8612216 U1 19860626  
• [A] DE 2824199 A1 19791206 - GUSTAV KUGEL KG STAHL UND LEIC  
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Designated contracting state (EPC)  
AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0253983 A2 19880127; EP 0253983 A3 19880907; EP 0253983 B1 19910515**; AT E63600 T1 19910615; CA 1318814 C 19930608; DE 3624849 A1 19880128; DE 3624849 C2 19920514; DE 3770071 D1 19910620; DK 165514 B 19921207; DK 165514 C 19930426; DK 382487 A 19880124; DK 382487 D0 19870722; ES 2021632 B3 19911116; IE 60216 B1 19940615; IE 871474 L 19880123; JP H07109152 B2 19951122; JP S63103186 A 19880507; US 4879957 A 19891114

DOCDB simple family (application)  
**EP 87107242 A 19870519**; AT 87107242 T 19870519; CA 542750 A 19870722; DE 3624849 A 19860723; DE 3770071 T 19870519; DK 382487 A 19870722; ES 87107242 T 19870519; IE 147487 A 19870603; JP 18020387 A 19870721; US 6363787 A 19870617