

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

Publication  
**EP 0253983 B1 19910515 (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)

Cited by  
EP0283549A3; EP0733764A1; DE19923922C1; GB2185772B; US6363660B1; EP3246505B1

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

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