

Title (en)
Security barrier structure.

Title (de)
Sicherheitswiderstandsbauelement.

Title (fr)
Élément résistant de sécurité.

Publication
EP 0151011 A2 19850807 (EN)

Application
EP 85300542 A 19850125

Priority
• GB 8402012 A 19840126
• GB 8406315 A 19840310

Abstract (en)
An anti-drill barrier for localised protection in safe and strongroom doors comprises a closely-spaced array of cemented carbide pins 1 or balls 4 (Fig 4 not shown) force-fitted into interference holes in a steel plate 2, and aligned with the anticipated direction of attack. The force-fitting of the hard pins or balls results in a tightness of hold on these elements which not only makes them very difficult to remove from the plate but also pre-stresses them in compression, with the result that the net (tensile) stress at which they will fail under impact loading is increased. When this kind of structure is attacked with carbide-tipped drills the tendency is for the drill bit to penetrate partially into the steel surrounding the hard pins or balls whereupon the flanks of the carbide inserts on the drill tip impact the hard pins or balls and are consequently broken or ripped away from the bit.

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E05G 1/024

IPC 8 full level
E05G 1/024 (2006.01); **F41H 5/02** (2006.01); **F41H 5/04** (2006.01)

CPC (source: EP)
E05G 1/024 (2013.01); **F41H 5/023** (2013.01); **F41H 5/0421** (2013.01)

Cited by
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EP 0151011 A2 19850807; **EP 0151011 A3 19860409**; **EP 0151011 B1 19890816**; AU 3809685 A 19850801; AU 571639 B2 19880421; ES 292802 U 19861216; ES 292802 Y 19870801; GB 2153406 A 19850821; GB 2153406 B 19870415; GB 8501862 D0 19850227; NZ 210987 A 19871127; PT 79886 A 19850201; PT 79886 B 19860911

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