

Title (en)  
Ballistic armor

Title (de)  
Ballistischer Schutz

Title (fr)  
Blindage balistique

Publication  
**EP 2103895 A2 20090923 (EN)**

Application  
**EP 09155487 A 20090318**

Priority  
IL 19036008 A 20080320

Abstract (en)  
A composite armor plate (10) for ballistic protection of a body against a threat, is provided, the plate comprising an inner, main armor layer (12) of high density pellets (18) in a binder matrix (26), and a front layer (11) adapted for facing the threat, each pellet having a domed front face (22) and a body portion (20) merging with the front face (22) along a perimeter line. The domed front face (22) has a juncture point (112) and is formed of sectors (108), each defined between two side edges (116) have the form of arcs and a portion of the perimeter line (106) extending between two spaced-apart points lying thereon, and constituting the sector's base edge. Each side edge spans between the juncture point and one of the spaced apart points. The shape of each sector (108) is such that the intersection of the sector (108) and a first plane (P1) crossing said two side edges, has a form of a straight line extending therebetween, and the intersection of the sector (108) and a second plane (P2) crossing said base edge, has a form of a convexly curved line. The front layer (11) is made of a material other than the binder matrix and is bonded to at least the majority of the pellets (18) at the domed front faces (22) thereof.

IPC 8 full level  
**F41H 5/04** (2006.01)

CPC (source: EP)  
**F41H 5/0492** (2013.01)

Citation (applicant)  

- US 5763813 A 19980609 - COHEN MICHAEL [IL], et al
- FR 2559254 A1 19850809 - PICARD [FR]
- EP 0699887 A2 19960306 - A F H INVESTMENT LTD [VG]
- DE 3940623 A1 19910613 - SST SICHERHEITS UND SYSTEMTECH [DE]
- US 5972819 A 19991026 - COHEN MICHAEL [IL]
- EP 1522817 A1 20050413 - COHEN MICHAEL [IL]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
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