

Title (en)
Composite armour plate

Title (de)
Verbundpanzerplatte

Title (fr)
Plaque de blindage composite

Publication
EP 0959321 A1 19991124 (EN)

Application
EP 99303164 A 19990423

Priority
IL 12454398 A 19980519

Abstract (en)
The invention provides a composite armor plate (10; 22) for absorbing and dissipating kinetic energy from high velocity projectiles, the plate comprising a single internal layer of pellets (14; 24) which are directly bound and retained in plate form by a solidified material (16) such that the pellets are bound in a plurality of adjacent rows, characterized in that the pellets (14; 24) have a specific gravity of at least 2 and are made of a material selected from the group consisting of glass, sintered refractory material, ceramic material which does not contain aluminium oxide and ceramic material having an aluminium oxide content of not more than 80%, the majority of the pellets each have at least one axis of at least 3 mm length and are bound by the solidified material in the single internal layer of adjacent rows such that each of a majority of the pellets is in direct contact with at least 4 adjacent pellets in the same layer to provide mutual lateral confinement therebetween, the pellets each have a substantially regular geometric form and the solidified material and the plate are elastic. <IMAGE>

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F41H 5/0414 (2013.01); **F41H 5/0492** (2013.01)

Citation (applicant)
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