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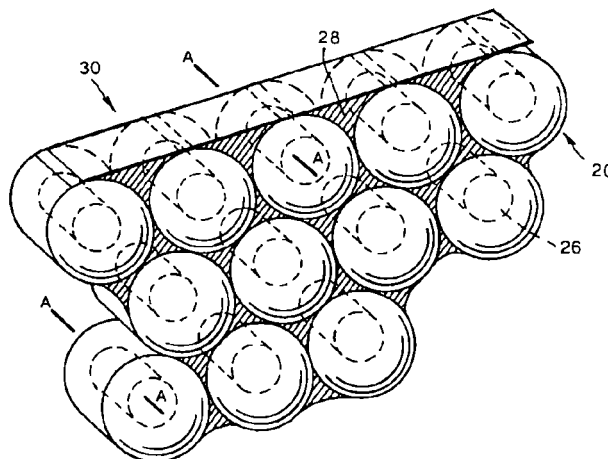
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(54) Title: COMPOSITE ARMOR PANEL



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(57) Abstract: The invention provides a composite armor plate (30) for absorbing and dissipating kinetic energy from high velocity projectiles, the plate comprising a single internal layer of pellets (20) which are directly bound and retained in plate form by a solidified material (28) such that the pellets are bound in a plurality of adjacent rows, the pellets having a specific gravity of at least 2 and being made of a material selected from the group consisting of glass, sintered refractory material and ceramic material, the majority of the pellets each having at least one axis of at least 3 mm length and being 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 six adjacent pellets in the same layer to provide mutual lateral confinement therebetween, the pellets each having a substantially regular geometric form, wherein the solidified material and the plate are elastic, characterized in that a channel (26) is provided in each of a plurality of the pellets (20), substantially opposite to an outer impact-receiving major surface of the plate (30), thereby reducing the weight per area of each of the pellets.



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