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Cohen

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(54) **COMPOSITE ARMOR**

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(30) **Foreign Application Priority Data**

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(57) **ABSTRACT**

The invention provides a composite armor for absorbing and dissipating kinetic energy from high velocity projectiles, comprising a panel provided with a layer of a plurality of high density ceramic bodies, the bodies having a specific gravity of at least 2 and being made of a material selected from the group consisting of ceramic material which does not contain aluminium oxide and ceramic material having an aluminium oxide content of not more than 80%, each of the bodies being substantially cylindrical in shape, with at least one convexly curved end face, and each of the bodies having a major axis substantially perpendicular to the axis of its respective curved end face, wherein the ratio D/R between the diameter D of each of the cylindrical bodies and the radius R of curvature of the respectively convexly curved end face of each of the bodies is at least 0.64:1, and wherein the bodies are arranged in a plurality of adjacent rows and columns, the major axis of the bodies being in substantially parallel orientation with each other and substantially perpendicular to an adjacent surface of the panel.

13 Claims, 3 Drawing Sheets

