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(54) **A passive armor assembly including an armor member made of a brittle material**

(57) Disclosed is a passive armor assembly for protecting a body disposed behind it from an impact of a long rod penetrator (hereinafter LRP). The armor assembly includes an armor surface (8) that is capable of exerting asymmetric forces on the oncoming LRP and an armor member (12) being disposed behind the armor surface. The armor member is made of a high compression

strength, low density, brittle material, and its thickness along the direction of the impact exceeds the length of the LRP. Preferably, the thickness is at least 1.5 the length of the LRP. In a preferred embodiment the armor member is made of a material exhibiting the combination of fracture toughness smaller than $3\text{MPam}^{1/2}$, density of less than 2g/cc , and compression strength of from 10^2 to 10^3 MPa.

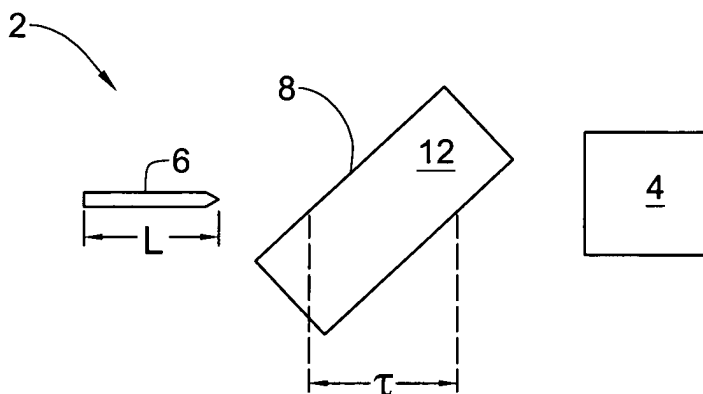


FIG. 1



European Patent
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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 19 October 2005	Examiner Van der Plas, J
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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