Title (en)

Electricity generating device for use in an armour arrangement, and an armour arrangement of this kind

Title (de)

Stromerzeugungsvorrichtung zur Verwendung bei einer Panzeranordnung und derartige Panzeranordnung

Title (fr)

Dispositif de génération d'électricité pour blindage, et blindage de la sorte

Publication

EP 2056060 A1 20090506 (EN)

Application

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Priority

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Abstract (en)

The present invention relates to an electricity generating device for use in an armour arrangement, and to an armour arrangement of this kind. The armour arrangement (1) includes two IRA modules (3a, 3b) arranged one behind the other, which respectively comprise a plate (9, 10), made of inert material, interposed between steel plates. Mounted or baked onto the inert material are sheet-shaped members (11, 12 and 13, 16), which are provided with a number of mutually separate regions in which, or next to which, there are disposed elements (17) which convert mechanical vibrations or shock waves in the inert material into electrical voltage. The elements can consist of crystals or piezoelectric layers. The ammunition part (7) or ammunition effect which penetrates the IRA modules and which generates the said mechanical vibrations or shock waves provokes in one or more elements (17) the generation of a voltage which can be used to initiate counteragents (ERA module) (4) against the penetration. According to the invention, contrary to known arrangements, the elements (17) are applied to a common material piece in the respective IRA module.

IPC 8 full level

F41H 5/007 (2006.01)

CPC (source: EP)

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Citation (search report)

- [X] GB 2295003 A 19960515 - RHEINMETALL IND GMBH [DE]
- [X] US 2007221052 A1 20070927 - WOODFIN RONALD L [US]
- [X] WO 2006085939 A2 20060817 - BAE SYSTEMS INFORMATION [US], et al

Cited by

CN103727845A; EP3365628A4

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