

Title (en)  
Percussion fuse with piezoelectric generator

Title (de)  
Aufschlagzünder mit piezoelektrischem Generator

Title (fr)  
Fusée d'impact à générateur piézoélectrique

Publication  
**EP 1878995 B1 20110216 (FR)**

Application  
**EP 07290832 A 20070702**

Priority  
FR 0606449 A 20060713

Abstract (en)  
[origin: EP1878995A2] The rocket impact (1) comprises a body (2) having a piezoelectric generator (4) placed on a support of the body, which forms an anvil, and a piston (7) to exert a mechanical constraint on the generator and to receive an effort transmitted by a cap. The piston slides with respect to the body. A plastic deformable unit is interposed between the cap and the body, where the unit is distorted by a movement of the body during the impact of the rocket on a target. An energy consumed by the distortion of the unit ensures a progressive pressing of the piezoelectric generator. The rocket impact (1), comprises a body (2) having a piezoelectric generator (4) placed on a support of the body, which forms an anvil, and a piston (7) to exert a mechanical constraint on the generator and to receive an effort transmitted by a cap. The piston slides with respect to the body. A plastic deformable unit is interposed between the cap and the body, where the unit is distorted by a movement of the body during the impact of the rocket on a target. An energy consumed by the distortion of the unit ensures a gradual collapse of the piezoelectric generator during the impact of rocket on the target. The plastic deformable unit is constituted by a metal washer (10). The metal washer has two deformable caps separated by a groove.

IPC 8 full level  
**F42C 11/02** (2006.01); **F42C 1/10** (2006.01)

CPC (source: EP US)  
**F42C 1/10** (2013.01 - EP US); **F42C 11/02** (2013.01 - EP US)

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DOCDB simple family (publication)  
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