

Title (en)  
Protection of an object from hollow charges

Title (de)  
Objektschutz vor Hohlladung

Title (fr)  
Protection d'un objet contre les charges creuses

Publication  
**EP 2455702 B1 20141231 (DE)**

Application  
**EP 12000856 A 20091219**

Priority  
• EP 09775088 A 20091219  
• EP 08405315 A 20081229  
• EP 12000856 A 20091219

Abstract (en)  
[origin: EP2202478A1] The unit has round rods (3) projected over an upper interior surface (2') of a protection layer (1). Diagonal distance between the round rods is smaller than a caliber of a missile and is larger than tips of the missile. The round rods are covered by laminar and coherent outer layers e.g. polymer layer (9) and lateral cover (10). The round rods are arranged in an angle towards the upper interior surface, where the angle corresponds to presumptive direction of a flight at an object to be protected. Front sides of the round rods are offset and comprise central feather-edged pivots. An independent claim is also included for a method for manufacturing a protection layer.

IPC 8 full level  
**F41H 5/02** (2006.01); **F41H 5/04** (2006.01)

CPC (source: EP US)  
**F41H 5/02** (2013.01 - US); **F41H 5/023** (2013.01 - EP US); **F41H 5/0492** (2013.01 - EP US); **Y10T 29/49** (2015.01 - EP US); **Y10T 29/49826** (2015.01 - EP US); **Y10T 428/24058** (2015.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2202478 A1 20100630**; AU 2009335617 A1 20110721; CA 2747532 A1 20100708; CA 2747532 C 20170711; DK 2382437 T3 20130527; EP 2382437 A1 20111102; EP 2382437 B1 20130220; EP 2455701 A1 20120523; EP 2455701 B1 20130904; EP 2455702 A1 20120523; EP 2455702 B1 20141231; EP 2455703 A1 20120523; EP 2455703 B1 20140813; ES 2406759 T3 20130610; HR P20130435 T1 20130630; PL 2382437 T3 20130731; US 2011252955 A1 20111020; US 2014041190 A1 20140213; US 2014190342 A1 20140710; US 8578833 B2 20131112; US 8701541 B2 20140422; US 9074851 B2 20150707; WO 2010075637 A1 20100708

DOCDB simple family (application)  
**EP 08405315 A 20081229**; AU 2009335617 A 20091219; CA 2747532 A 20091219; CH 2009000407 W 20091219; DK 09775088 T 20091219; EP 09775088 A 20091219; EP 12000855 A 20091219; EP 12000856 A 20091219; EP 12000857 A 20091219; ES 09775088 T 20091219; HR P20130435 T 20130517; PL 09775088 T 20091219; US 201314051625 A 20131011; US 201414187667 A 20140224; US 99899509 A 20091219