

Title (en)
GRENADE, 40MM X 53. HIGH VELOCITY, DUAL PURPOSE

Title (de)
DOPPELZWECK-HOCHGESCHWINDIGKEITSGRANATE, 40MM X 53MM

Title (fr)
GRENADE, 40MM X 53. GRANDE VITESSE, DOUBLE USAGE

Publication
EP 1856474 A2 20071121 (EN)

Application
EP 06710189 A 20060215

Priority
• GR 2006000007 W 20060215
• GR 20050100106 A 20050303

Abstract (en)
[origin: WO2006092637A2] Grenade, 40mm X 53, high velocity, dual purpose (combat and piercing/penetrating), consisting of the cartridge case (22), the projectile (27, 28, 29, 30, 31, 32, 33) and the fuze (21). The copper truncate cone (29), which is fitted on the explosive charge (28), with which the projectile is filled, bears grooves (29.1 and 29.2) of a special form, which ensure the creation of a symmetrical plasma jet, having as a result the maximum piercing/penetrating capability of the round. The form and the geometry of the grooves (33.1) of the separate pre-fragmented steel jacket (33), which is encased in the aluminum body (32) of the projectile, ensure the maximum fragmentation of the round. The form and the material of the rotating band (27), as well as the geometry (27.1, 27.2 and 27.3) of its fitting on the grooves of the aluminum projectile body (32) ensure the maximum strength of the rotating band, even under the most extreme environmental conditions. The type of the explosive used in the projectile results in the successful initiation of the hollow charge (copper truncate cone (29)) and the fragmentation of the pre- fragmented steel jacket (33). The geometry of the spit-back (30), the form of the liner (30.1) and the type of explosive (30.2) used in the spit-back, ensure the effective initiation of the explosive of the projectile, after the fuze impact, or during flight by self initiation.

IPC 8 full level
F42B 14/02 (2006.01); **F42B 1/02** (2006.01); **F42B 1/028** (2006.01); **F42B 5/02** (2006.01); **F42B 12/10** (2006.01); **F42B 12/22** (2006.01)

CPC (source: EP)
F42B 1/028 (2013.01); **F42B 5/025** (2013.01); **F42B 12/22** (2013.01); **F42B 14/02** (2013.01)

Citation (search report)
See references of WO 2006092637A2

Citation (examination)
US 2764092 A 19560925 - MASSEY MARK F

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006092637 A2 20060908; **WO 2006092637 A3 20070405**; EP 1856474 A2 20071121

DOCDB simple family (application)
GR 2006000007 W 20060215; EP 06710189 A 20060215