

Title (en)

Non-lethal projectile

Title (de)

Nicht tödliches Geschoss

Title (fr)

Projectile non mortel

Publication

EP 1484573 A1 20041208 (EN)

Application

EP 04013195 A 20040603

Priority

US 47570503 P 20030604

Abstract (en)

The present invention is a projectile comprising a non-lethal payload (50), a frangible composite case (10), an air-bursting fuze (40), and at least one explosive (30). The projectile is adaptable to any medium or large caliber ammunition. After being launched from a gun system towards an intended target, the fuze mechanism triggers a first explosive charge that causes a blast force to disintegrate the composite case into sufficiently small particles so that the particles rapidly decelerate to a non-lethal state. The explosive charge may also create an overpressure wave to disorient or incapacitate the target. Other non-lethal payloads, such as aerosols or rubber pellets, may be included within the walls of the frangible case.
<IMAGE>

IPC 1-7

F42B 12/00

IPC 8 full level

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Citation (search report)

- [X] DE 2923877 A1 19801218 - RHEINMETALL GMBH
- [X] FR 711463 A 19310910
- [A] US 6374741 B1 20020423 - STANLEY MICHAEL [US], et al
- [A] US 3439619 A 19690422 - BOCK ERICH, et al
- [A] FR 2488390 A1 19820212 - SERAT [FR]
- [A] US 6145441 A 20001114 - WOODALL ROBERT [US], et al

Cited by

EP2138802A1; NO339459B1; WO2008147290A1; US8434412B2

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