

Title (en)
TRAINING AMMUNITION PROJECTILE

Publication
EP 0071322 A3 19830720 (EN)

Application
EP 82301433 A 19820319

Priority
GB 8111671 A 19810413

Abstract (en)
[origin: EP0071322A2] An axisymmetrical projectile having a specified design launch condition includes an axisymmetrical cavity 12 substantially filled with liquid, the cavity dimensions and liquid characteristics being so tuned that a main natural frequency of the liquid within the cavity approaches a nutation frequency of the projectile to cause resonance after a predetermined duration of flight following a design launch. The resonance increases the nutation amplitude causing a rapid rise in drag which quickly halts the projectile's flight.

IPC 1-7
F42B 13/20; F42B 13/32; F42B 11/02

IPC 8 full level
F42B 10/48 (2006.01)

CPC (source: EP)
F42B 10/48 (2013.01)

Citation (search report)

- [A] US 4241660 A 19801230 - DONOVAN WILLIAM F [US]
- [A] DE 734429 C 19430415 - SKODA KP, et al
- [A] US 4116404 A 19780926 - HOWELL THOMAS H
- [A] JOURNAL OF SPACECRAFT & ROCKETS, vol. 15, no. 6, November/December 1978, pages 348-354,
- [A] AIAA JOURNAL, vol. 16, no. 1, 1978, pages 8-11
- [A] RHEINMETALL WAFFENTECHNISCHES TASCHENBUCH, 3rd edition, 1977, Düsseldorf, DE.

Cited by
US11156442B1

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0071322 A2 19830209; **EP 0071322 A3 19830720**; **EP 0071322 B1 19860514**; CA 1196816 A 19851119; DE 3271108 D1 19860619

DOCDB simple family (application)
EP 82301433 A 19820319; CA 400284 A 19820331; DE 3271108 T 19820319