

Title (en)
FUZE FOR SPINNING PROJECTILES

Publication
EP 0042957 B1 19840815 (DE)

Application
EP 81103707 A 19810514

Priority
• DE 3024966 A 19800702
• DE 3037669 A 19801004

Abstract (en)
[origin: ES8204849A1] In a spin-stabilized projectile, an improved ignition fuse arrangement for a pyrotechnic ignition charge. The ignition charge is mounted in a rotor which is movable from a safety position to an armed (active) position. This rotor is held by actuating means in the safety position and is released by the actuating means and moves to the armed position when the projectile has been subjected to predetermined centrifugal and inertial forces. The actuating means include biasing means which are biased against the rotor to maintain it in its safety position. The actuating means also includes at least two release balls which coact with ball support surfaces of a ball support member which are inclined with respect to the longitudinal axis of the ignition fuse arrangement at least one blocking ball is operatively mounted in the actuating means for blocking at least one release ball when the projectile is in a non-spinning state and unblocking the release ball when the projectile has reached a predetermined spin velocity, so that the actuating means move to release the rotor against the action of the biasing means which thereby swings into its armed position. This blocking ball constitutes a first safety means. A second safety means is provided in the rear part of the ignition fuse arrangement by means of a massive pin which is slidably mounted in a bore which is parallel but eccentric with respect to the longitudinal axis of the ignition fuse arrangement and this massive pin is adapted to engage the rotor and maintain it in its safety position and to release the rotor when the massive pin has been subjected to predetermined inertial forces.

IPC 1-7
F42C 15/26

IPC 8 full level
F42C 9/18 (2006.01); **F42C 15/26** (2006.01)

CPC (source: EP US)
F42C 9/18 (2013.01 - EP US)

Cited by
EP0724132A1; FR2730051A1

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

DOCDB simple family (publication)
EP 0042957 A2 19820106; EP 0042957 A3 19820113; EP 0042957 B1 19840815; CA 1148022 A 19830614; DE 3165530 D1 19840920; DK 269681 A 19820103; ES 503484 A0 19820516; ES 8204849 A1 19820516; GR 74170 B 19840607; NO 153507 B 19851223; NO 153507 C 19860402; NO 812255 L 19820104; PT 73089 A 19810601; PT 73089 B 19820505; TR 21857 A 19880930; US 4406225 A 19830927

DOCDB simple family (application)
EP 81103707 A 19810514; CA 380924 A 19810630; DE 3165530 T 19810514; DK 269681 A 19810619; ES 503484 A 19810629; GR 810165005 A 19810520; NO 812255 A 19810701; PT 7308981 A 19810526; TR 2185781 A 19810630; US 27930981 A 19810701