

Title (en)

Safety and arming-means in an ammunition.

Title (de)

Einrichtung zum Sichern und zum Schärfen einer Munition.

Title (fr)

Dispositif de sécurité et d'armement de charges militaires.

Publication

EP 0463974 B1 19950125 (FR)

Application

EP 91401772 A 19910627

Priority

FR 9008148 A 19900628

Abstract (en)

[origin: EP0463974A1] The subject of the invention is a safety and arming device for ammunition, capable of ensuring the alignment of the pyrotechnic chain and of occupying two different positions, a first in which the detonation of the ammunition is prevented and a second in which detonation is transmitted. It consists of a chain of interruption means 3 having a passage 2a made along a diameter perpendicular to the directions of the stresses undergone by the ammunition during the operational phases and incorporating or not a relay composition 2 actuated along a helical path of an angle alpha in order to bring the passage 2a from the first position, called the safety position, in which it is arranged in a plane substantially orthogonal to the axis of alignment of the pyrotechnic chain, into the second position, called the arming position, in which it is aligned with the axis 6 of the chain. The helical movement is the combination of a translational movement and of a rotational movement alpha through approximately 90 DEG and is executed in three successive phases, a first phase A, during which, above all, a translational movement and a low rotation of between 0 and 15% of the angle alpha are obtained, then in a phase B of high rotation of between approximately 15 and 85% of the angle alpha, and finally in a phase C, above all a translational movement and a low rotation into the armed position. The invention is used for military charges. <IMAGE>

IPC 1-7

F42C 15/34; **F42C 15/18**; **F42C 15/188**

IPC 8 full level

F42C 15/18 (2006.01); **F42C 15/188** (2006.01); **F42C 15/34** (2006.01)

CPC (source: EP)

F42C 15/18 (2013.01); **F42C 15/188** (2013.01); **F42C 15/34** (2013.01)

Cited by

EP1189012A3; EP2669619A1; FR2991447A1; US7387156B2; WO2013178889A1; US9435624B2

Designated contracting state (EPC)

DE ES GB IT SE

DOCDB simple family (publication)

EP 0463974 A1 19920102; **EP 0463974 B1 19950125**; DE 69106950 D1 19950309; DE 69106950 T2 19950524; ES 2069240 T3 19950501; FR 2664040 A1 19920103; FR 2664040 B1 19940722

DOCDB simple family (application)

EP 91401772 A 19910627; DE 69106950 T 19910627; ES 91401772 T 19910627; FR 9008148 A 19900628