

Title (en)

ELECTRONICALLY AND MECHANICALLY-OPERATED IGNITION DELAY FOR CARTRIDGE-TYPE PYROTECHNIC DECOY FLARE AMMUNITION

Title (de)

ELEKTRONISCH-MECHANISCHE ANZÜNDVERZÖGERUNG FÜR PATRONIERTE PYROTECHNISCHE SCHEINZIELMUNITION

Title (fr)

DISPOSITIF ELECTRONIQUE ET MECANIQUE DE RETARD D'ALLUMAGE POUR MUNITION ECLAIRANTE PYROTECHNIQUE A CARTOUCHE

Publication

EP 1166033 A1 20020102 (DE)

Application

EP 00904950 A 20000124

Priority

- DE 19914670 A 19990331
- EP 0000497 W 20000124

Abstract (en)

[origin: US6463856B1] The invention relates to an electronically and mechanically-operated ignition delay which is used in cartridge-type pyrotechnic decoy flare ammunition. Said ignition delay comprises a cylindrical sleeve (10), containing an ignition device (1) in the base, a propellant (2) for expelling the inflammable active material (8) and devices (9) for delaying the ignition of the active material. The electric ignition device of the propellant charge is galvanically connected to a capacitor element (3) which is fixed in the propulsion reflector (4). Said capacitor element is galvanically connected to a mechanical switch-on element (7) in the active material, whereby said mechanical switch-on element is, in turn, galvanically connected to an electric ignition unit in the active material. The switch-on process is thus triggered by the relative movement of the active material as it travels along the sleeve axis away from the propulsion reflector.

IPC 1-7

F42B 5/15; **F42C 15/40**

IPC 8 full level

F42B 5/08 (2006.01); **F42B 5/15** (2006.01); **F42C 15/40** (2006.01)

CPC (source: EP US)

F42B 5/15 (2013.01 - EP US); **F42C 15/40** (2013.01 - EP US)

Citation (search report)

See references of WO 0060302A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6463856 B1 20021015; AT E241123 T1 20030615; DE 19914670 A1 20001005; DE 50002266 D1 20030626; DK 1166033 T3 20030915; EP 1166033 A1 20020102; EP 1166033 B1 20030521; ES 2199774 T3 20040301; IL 145011 A0 20020630; IL 145011 A 20061031; JP 2002541425 A 20021203; PT 1166033 E 20031031; TR 200102722 T2 20020221; WO 0060302 A1 20001012

DOCDB simple family (application)

US 93750001 A 20010927; AT 00904950 T 20000124; DE 19914670 A 19990331; DE 50002266 T 20000124; DK 00904950 T 20000124; EP 0000497 W 20000124; EP 00904950 A 20000124; ES 00904950 T 20000124; IL 14501100 A 20000124; IL 14501101 A 20010821; JP 2000609755 A 20000124; PT 00904950 T 20000124; TR 200102722 T 20000124