

Title (en)
Safety device for a projectile fuse

Title (de)
Sicherungseinrichtung für einen Zünder eines Geschosses

Title (fr)
Dispositif de sécurité destiné à une amorce de projectile

Publication
EP 2071274 A3 20130220 (DE)

Application
EP 08020934 A 20081203

Priority
DE 102007060567 A 20071215

Abstract (en)
[origin: EP2071274A2] The device has an ignition unit for transmitting ignition energy to another ignition unit, and a rotor (60) for interrupting the transmission of the ignition energy. The rotor is locked in a locking condition of a safety unit (62), which is provided to an unlocking action due to a physical unlocking parameter i.e. apogee parameter. The safety unit senses the apogee parameter, which is caused by fly through of a projectile over an apogee of a projectile trajectory. A locking unit (66) mechanically blocks the unlocking action in a safety location. The apogee parameter is selected from force, direction change of the projectile, lateral acceleration of the fuse, minimum in a longitudinal acceleration of the fuse, velocity of the projectile, or a direction of earth's magnetic field of the fuse.

IPC 8 full level
F42C 15/188 (2006.01); **F42C 15/22** (2006.01); **F42C 15/24** (2006.01); **F42C 15/26** (2006.01)

CPC (source: EP US)
F42C 15/005 (2013.01 - EP US); **F42C 15/188** (2013.01 - EP US); **F42C 15/22** (2013.01 - EP US); **F42C 15/24** (2013.01 - EP US); **F42C 15/26** (2013.01 - EP US); **F42C 15/40** (2013.01 - EP US)

Citation (search report)

- [XY] US 4782757 A 19881108 - CARTER HARRY R [US]
- [X] US 3804020 A 19740416 - NORTON D
- [X] US 2404135 A 19460716 - PIAO KIANG
- [Y] WO 2006088687 A1 20060824 - BAE SYSTEMS INFORMATION [US], et al
- [Y] US 6964231 B1 20051115 - ROBINSON CHARLES H [US], et al
- [Y] EP 0116714 A2 19840829 - HONEYWELL INC [US]

Cited by
CN106314812A; CN107101541A; WO2016124534A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2071274 A2 20090617; EP 2071274 A3 20130220; DE 102007060567 A1 20090618; DE 102007060567 B4 20090827; US 2009151585 A1 20090618; US 7980179 B2 20110719; ZA 200810554 B 20091125

DOCDB simple family (application)
EP 08020934 A 20081203; DE 102007060567 A 20071215; US 33494308 A 20081215; ZA 200810554 A 20081212