

Title (en)

Early ignition device for burning off fuels and explosive substances

Title (de)

Frühzündvorrichtung zum Abbrennen von Treibstoffen und Explosivstoffen

Title (fr)

Dispositif d'allumage préalable destiné à brûler des carburants et des matières explosives

Publication

**EP 2378236 A3 20140604 (DE)**

Application

**EP 11003027 A 20110411**

Priority

DE 102010015047 A 20100415

Abstract (en)

[origin: EP2378236A2] The early firing device (1) has an energy storage unit (7) that is recharged by heating and has an energy storage element (10). The energy is available in the form of a force. The energy storage element is made up of a spring (11).

IPC 8 full level

**F42B 39/14** (2006.01)

CPC (source: EP)

**F42B 39/14** (2013.01)

Citation (search report)

- [XY] WO 9001635 A1 19900222 - HUGHES AIRCRAFT CO [US]
- [X] US 4843965 A 19890704 - MERZALS CLARENCE A [US]
- [X] US 5445077 A 19950829 - DUPUY JEAN-PAUL [FR], et al
- [X] EP 1624178 A1 20060208 - DIEHL BGT DEFENCE GMBH & CO KG [DE]
- [Y] FR 2685079 A1 19930618 - LACROIX E TOUS ARTIFICES [FR]
- [A] FR 2564965 A1 19851129 - MATRA [FR]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2378236 A2 20111019; EP 2378236 A3 20140604**; DE 102010015047 A1 20111020; DE 102010015047 B4 20120112

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**EP 11003027 A 20110411**; DE 102010015047 A 20100415