

Title (en)
Method and system for the defence against missiles

Title (de)
Verfahren und System zur Abwehr von Flugkörpern

Title (fr)
Méthode et système de défense contre des missiles

Publication
EP 1816430 A1 20070808 (DE)

Application
EP 07000652 A 20070113

Priority
DE 102006004517 A 20060201

Abstract (en)
Defending against flying bodies (7.1, 7.2) containing explosives with piezoelectric fuses involves inducing oscillation of the fuse using ultrasonic energy (1) so that the fuse is activated in flight. An independent claim is included for a corresponding defense system, comprising a flying body warning sensor (4) for detecting the launch of the flying body (7.1); a flight tracking sensor; a generator (2) of ultrasonic radiation (1), suitable for inducing oscillation of the fuse of the flying body (7.2) so that the fuse is activated in flight; and a positioning device for directing the ultrasonic radiation at the approaching flying body.

Abstract (de)
Die Erfindung betrifft ein Verfahren sowie ein System zur Abwehr von Flugkörpern (7.1,7.2), welche Explosivstoffe mit piezoelektrischem Zünder aufweisen, wobei mittels Ultraschallenergie (1) der Zünder des Flugkörpers (7.2) zu Schwingungen angeregt und dadurch im Flug ausgelöst wird.

IPC 8 full level
F41H 11/02 (2006.01); **F42C 11/02** (2006.01)

CPC (source: EP US)
F41H 11/02 (2013.01 - EP US); **F41H 13/0081** (2013.01 - EP US); **F42C 11/02** (2013.01 - EP US)

Citation (applicant)
DE 2250630 B2 19780302

Citation (search report)

- [A] DE 10155151 A1 20030522 - KRECH HANS [DE]
- [A] WO 2004024559 A2 20040325 - RAFAEL ARMAMENT DEV AUTHORITY [IL], et al
- [DA] DE 2250630 A1 19730503 - OKI ELECTRIC IND CO LTD, et al
- [A] DE 3345352 A1 19850627 - LICENTIA GMBH [DE]
- [A] DE 2126931 A1 19721130

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US7505368B2; WO2010103321A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1816430 A1 20070808; EP 1816430 B1 20100310; AT E460637 T1 20100315; DE 102006004517 A1 20070809; DE 502007003050 D1 20100422; ES 2339282 T3 20100518; US 2008117718 A1 20080522; US 7505368 B2 20090317; ZA 200700585 B 20080430

DOCDB simple family (application)
EP 07000652 A 20070113; AT 07000652 T 20070113; DE 102006004517 A 20060201; DE 502007003050 T 20070113; ES 07000652 T 20070113; US 70003907 A 20070131; ZA 200700585 A 20070118