

Title (en)

RING ARRAY PROJECTILE STEERING WITH OPTICALLY-TRIGGERED DIVERTER ELEMENTS

Title (de)

GESCHOSSENLENKUNG MITTELS EINER RINGANORDNUNG UND OPTISCH AUSGELOSTEN ABLENKVORRICHTUNGEN

Title (fr)

GUIDAGE DE PROJECTILE A RESEAU EN ANNEAU A L'AIDE D'ELEMENTS DEFLECTEURS A DECLenchement OPTIQUE

Publication

**EP 1196733 A4 20030702 (EN)**

Application

**EP 00986176 A 20000720**

Priority

- US 0019925 W 20000720
- US 14491899 P 19990721

Abstract (en)

[origin: WO0116547A2] A guidance seeker system for a projectile includes a plurality of photoconductive sensing elements (24) symmetrically disposed about a central axis of the projectile. When a target (18) is illuminated with a light source (16), a lens (22) transmits light reflected (20) from the target (18) to one or more of the photoconductive sensing elements (24). Dependent on which photoconductive sensing element (24) is irradiated, a variance (30) between the line of flight (30) of the projectile and the target (18) is determined. A voltage impulse resulting from irradiation of the photoconductive sensing element (24) triggers actuation of a course corrector, such as a diverter, to nudge the line of flight of the projectile to increase the likelihood of the projectile reaching the desired target. This guidance seeking system is particularly effective when the target (18) is designated with a pulsed laser (14).

IPC 1-7

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IPC 8 full level

**F41G 7/22** (2006.01)

CPC (source: EP)

**F41G 7/226** (2013.01); **F41G 7/2293** (2013.01); **F42B 10/661** (2013.01)

Citation (search report)

- [XAY] US 5695152 A 19971209 - LEVY BENJAMIN [IL]
- [YA] GB 1605228 A 19850320 - BRITISH AEROSPACE
- See references of WO 0116547A2

Cited by

DE102007002336A1; DE102009016147A1

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**WO 0116547 A2 20010308**; **WO 0116547 A3 20010621**; AU 2245801 A 20010326; DE 60023007 D1 20060216; DE 60023007 T2 20060713; EP 1196733 A2 20020417; EP 1196733 A4 20030702; EP 1196733 B1 20051005

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