

Title (en)

Weapon system with a sighting device with electric illumination device and proces for switching said illumination device

Title (de)

Waffensystem mit einer Visiereinrichtung mit einer elektrischen Beleuchtungseinrichtung und Verfahren zur Schaltung dieser Beleuchtungseinrichtung

Title (fr)

Système d'un arme avec un dispositif de visé avec un dispositif d'illumination électrique et procédé de commutation de cette dispositif d'illumination

Publication

EP 2113737 A3 20130904 (DE)

Application

EP 09005789 A 20090425

Priority

DE 102008021732 A 20080430

Abstract (en)

[origin: EP2113737A2] The system (1) has a sighting device (3) assigned to a magnetic memory element (MME)-sensor (7). A safety element (5) e.g. clamping slider, of a firearm (2) is assigned to a permanent magnet (6). An electrical illumination device (10) of the sighting device is operated by control electronics (11) to cause activation and deactivation of illumination during exceeding and falling-below of a defined limit value of magnetic field strength caused by change of position of the element and a recoiled change of position, respectively. The sensor is selected from a group consisting of anisotropic magnetoresistive (AMR) sensor, tunnel magnetoresistive (TMR) sensor, colossal magnetoresistive (CMR) sensor, extraordinary magnetoresistive (EMR) sensor and giant magnetoresistive (GMR) sensor, sensor. Independent claims are also included for the following: (1) a method for learning magnetic field strength's measured values to be detected by a magnetic memory element (MME)-sensor during a change of position of a safety element (2) a method for contactless switching of an electrical illumination device of a weapon system (3) a device for execution of a method for learning magnetic field strength's measured values to be detected by a magnetic memory element (MME)-sensor during change of positions of a safety element.

IPC 8 full level

F41G 1/34 (2006.01); **F41G 1/38** (2006.01)

CPC (source: EP)

F41G 1/34 (2013.01); **F41G 1/345** (2013.01); **F41G 1/38** (2013.01)

Citation (search report)

- [XD] EP 1596152 A1 20051116 - SAT SWISS ARMS TECHNOLOGY AG [CH]
- [A] EP 0176169 A2 19860402 - LASERGAGE LTD [GB]
- [A] US 2002045998 A1 20020418 - BERNARD JACQUES [FR], et al
- [A] US 2003128132 A1 20030710 - PITAULT GERARD [FR], et al
- [A] EP 0652640 A1 19950510 - OMRON TATEISI ELECTRONICS CO [JP]
- [A] DE 4123828 C1 19921224

Cited by

CN109488197A

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

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