

Title (en)

Method for teaching a magnetoelectric sensor of a weapon system allowing an illumination device of a sighting device of the weapon system to be switched on and off without touching

Title (de)

Verfahren zum Einlernen eines magnetoelektrischen Sensors eines Waffensystems zur berührungslosen Schaltung einer Beleuchtungseinrichtung einer Visiereinrichtung des Waffensystems

Title (fr)

Procédé pour instruire un capteur magnétoélectrique d'un dispositif d'illumination d'un dispositif de visé d'un système d'arme permettant la commutation non-tactile de ce dispositif d'illumination

Publication

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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

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CPC (source: EP)

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