

Title (en)
REFLECTOR SIGHT HAVING VIRTUAL SIGHTING

Title (de)
REFLEXVISIER MIT VIRTUELLER VISIERUNG

Title (fr)
VISEUR RÉFLEXE À SYSTÈME DE VISÉE VIRTUELLE

Publication
EP 3071921 A1 20160928 (DE)

Application
EP 14802848 A 20141118

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• EP 2014074927 W 20141118

Abstract (en)
[origin: WO2015075036A1] The invention relates to a small, light, and economical sighting apparatus (10) for hand firearms in particular for shooting shells with a highly exaggerated trajectory. The sighting apparatus (10) is based on a reflector sight (50) having a micro-display (16), such that text information and image information can also be displayed in addition to the reticle (21). For shells having a highly exaggerated trajectory, a virtual sighting occurs, which displays the desired position and the actual position of the point of aim of the weapon by means of symbols (22, 23). The symbols are caused to coincide by directing the weapon. The desired point of aim is calculated for the ballistic parameters of the ammunition and the input target distance. In order to calculate the deviation of the point of aim from the desired position, measurements for the gravity of Earth and for the surrounding magnetic field are additionally used. The sighting apparatus (10) can be used for different ammunition. Shooting can be performed both in the lower angle group and in the upper angle group, which enables the possibility of steep-angle fire. The sighting apparatus (10) can also be used with night vision goggles without the focus of the goggles having to be adapted to near objects. Furthermore, an IR laser illuminator (17) supports night combat. The sighting apparatus (10) can also be used together with a magnifying target optical unit (3).

IPC 8 full level
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Citation (search report)
See references of WO 2015075036A1

Cited by
US11976901B2; US11486677B2

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