

Title (en)
DIRECTED-ENERGY WEAPON AND METHOD FOR DISPLAYING THE POSITION OF AN IMPACT POINT OF THE DIRECTED-ENERGY WEAPON

Title (de)
STRAHLENWAFFE UND VERFAHREN ZUR DARSTELLUNG DER LAGE EINES TREFFPUNKTS DER STRAHLENWAFFE

Title (fr)
ARME À ÉNERGIE DIRIGÉE ET PROCÉDÉ DE REPRÉSENTATION DE LA POSITION D'UN POINT D'IMPACT DE L'ARME À ÉNERGIE DIRIGÉE

Publication
EP 3870927 A1 20210901 (DE)

Application
EP 19794537 A 20191025

Priority
• DE 102018126833 A 20181026
• EP 2019079143 W 20191025

Abstract (en)
[origin: WO2020084107A1] The invention relates to a method for displaying the position of an impact point (26) of a directed-energy weapon (10) which has an effective beam optical system (22) and an imaging optical system (24). In the method, an emission of primary radiation of the directed-energy weapon (10), which primary radiation is to be focused and directed by the effective beam optical system (22), is triggered as an effective beam (28), and radiation emanating from an irradiated object is received by the imaging optical system (24) and directed onto a camera (34) of a screen (38). The method is characterised in that a beam bundle cross-section of an effective beam (28) is covered with a reflective optical auxiliary element (56), the effective beam (28) or the auxiliary beam is triggered with the beam bundle cross-section covered, and primary radiation of the effective beam (28) or of the auxiliary beam which is reflected by the reflective optical auxiliary element (56) is received by the imaging optical system (24) and directed onto a spot of the camera (34), which spot is displayed on the screen (38) as the impact point (40). An independent claim relates to a directed-energy weapon (10).

IPC 8 full level
F41G 3/16 (2006.01); **F41G 3/32** (2006.01); **F41H 13/00** (2006.01)

CPC (source: EP IL US)
F41G 3/165 (2013.01 - EP IL); **F41G 3/323** (2013.01 - EP IL US); **F41H 13/005** (2013.01 - EP IL); **F41H 13/0062** (2013.01 - US)

Citation (search report)
See references of WO 2020084107A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020084107 A1 20200430; AU 2019366763 A1 20210513; DE 102018126833 A1 20200430; EP 3870927 A1 20210901; IL 282543 A 20210630; JP 2022514174 A 20220210; JP 7416777 B2 20240117; US 11867482 B2 20240109; US 2022307803 A1 20220929

DOCDB simple family (application)
EP 2019079143 W 20191025; AU 2019366763 A 20191025; DE 102018126833 A 20181026; EP 19794537 A 20191025; IL 28254321 A 20210421; JP 2021522016 A 20191025; US 202117240807 A 20210426