

Title (en)
POINTING DEVICE FOR A WEAPON SYSTEM COMPRISING A WEAPON SECURED TO A FRAME AND METHOD IMPLEMENTING SUCH A DEVICE

Title (de)
ZIELVORRICHTUNG FÜR EIN WAFFENSYSTEM, DIE EINE AN EINEM RAHMEN BEFESTIGTE WAFFE UMFASST, UND VERFAHREN ZUR VERWENDUNG EINER SOLCHEN VORRICHTUNG

Title (fr)
DISPOSITIF DE POINTAGE POUR UN SYSTÈME D'ARME COMPRENANT UNE ARME SOLIDAIRE D'UN CHÂSSIS ET PROCÉDÉ METTANT EN OEUVRE UN TEL DISPOSITIF

Publication
EP 3929522 A1 20211229 (FR)

Application
EP 21176007 A 20210526

Priority
FR 2006650 A 20200626

Abstract (en)
[origin: US2022074698A1] An aiming method for a weapon system including a weapon secured to a chassis, as well as an aiming device implementing such a method. The weapon system includes a computer having in an internal memory a nominal firing profile defined by the extreme elevation and relative bearing aiming instructions that are possible for the weapon, in the reference frame associated with the chassis, when the latter is in a firing position on a horizontal ground. The boundaries of the nominal firing profile are converted so as to determine a transformed firing profile which is delimited by the extreme directions of fire that are possible in the reference frame of the chassis when the latter is in the firing position on the field, and finally the operating firing profile is determined for the aiming, which is defined as the geometric intersection of the nominal firing profile and the transformed firing profile.

Abstract (fr)
Suivant ce procédé, le système d'arme (100) comporte un calculateur (3d) ayant en mémoire interne un gabarit de tir nominal (G_N) défini par les consignes de pointages en site et gisement extrêmes possibles pour l'arme, dans le repère lié au châssis, lorsque celui-ci se trouve en position de tir sur un sol horizontal. On convertit les limites du gabarit de tir nominal (G_N) de façon à déterminer un gabarit de tir transformé (G_T) qui est délimité par les directions de tir extrêmes possibles dans le repère du châssis lorsque celui-ci est en position de tir sur le terrain, et on détermine enfin le gabarit de tir opérationnel (G_{OP}) pour le pointage qui est défini comme l'intersection géométrique du gabarit de tir nominal (G_N) et du gabarit de tir transformé (G_T).

IPC 8 full level
F41A 23/56 (2006.01); **F41G 5/16** (2006.01); **F41G 5/24** (2006.01)

CPC (source: EP IL US)
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Citation (applicant)
• US 2015174979 A1 20150625 - RACZEK MATTHIAS [DE], et al
• KR 20110100959 A 20110915 - SAMSUNG TECHWIN CO LTD [KR]

Citation (search report)
• [A] US 2015174979 A1 20150625 - RACZEK MATTHIAS [DE], et al
• [A] US 9886040 B1 20180206 - KELLY JOHN T [US]
• [A] KR 20110100959 A 20110915 - SAMSUNG TECHWIN CO LTD [KR]
• [A] CHRISTOPHER F FOSS: "Roll out: mapping the appetite for wheeled artillery", JANE'S INTERNATIONAL DEFENCE REVIEW, JANE'S INFORMATION GROUP, COULSDON, SURREY, GB, vol. 47, no. 7, 1 July 2014 (2014-07-01), pages 36 - 39, 41, XP001591319, ISSN: 1476-2129

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