

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
23 March 2023 (23.03.2023)



(10) International Publication Number
WO 2023/042195 A1

(51) International Patent Classification:

F4IG 3/26 (2006.01) H04N 5/232 (2006.01)
F4IG 3/06 (2006.01)

(21) International Application Number:

PCT/IL2022/050984

(22) International Filing Date:

11 September 2022 (11.09.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

286420 14 September 2021 (14.09.2021) IL

(71) Applicant: SMART SHOOTER LTD [IL/IL]; 3006500
Yagur (IL).

(72) Inventors: EHRLICH, Avshalom; 1923800 Kibbutz Ra-
mat Hashofet (IL). MEGEL, Jenia; Globerman Yehoshua
11/19, 3499803 Haifa (IL).

(74) Agent: BEN-SHMUEL, Sarit et al.; Luzzatto & Luzzatto,
P.O. BOX 5352, 8415202 Beer Sheva (IL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,

HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE,
KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,
LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA,
NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO,
RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS,
ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— with international search report (Art. 21(3))

(54) Title: SMART AIMING DEVICE WITH BUILT-IN TRAINING SYSTEM FOR MARKSMANSHIP AND FIREARM OPER-
ATION

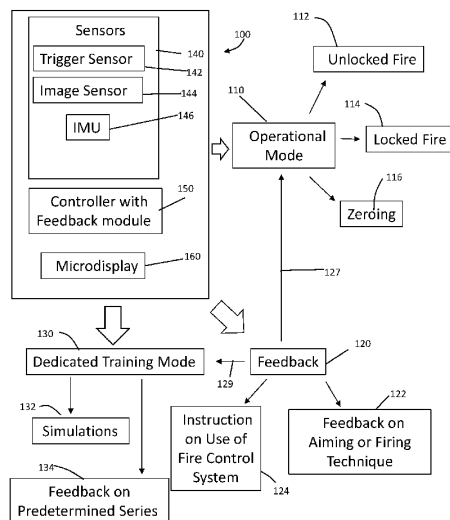


Fig. 1

(57) Abstract: A smart aiming device for a firearm includes a proces-
sor, a memory, and sensors. The sensors include an inertial measurement
unit (IMU) for measuring movement of the firearm; a trigger sensor for
monitoring a depression of a trigger of the firearm; and an image sensor
configured to capture images of a target region. During operation of the
firearm, the sensors collect data and provide said data to the processor
and memory for analysis and storage. The device further includes an opti-
cal window for viewing a target via at least one of an optical lens and a
micro-display. The memory includes a non-transitory computer-readable
medium storing therein instructions, that, when executed by the proces-
sor, causes the processor to provide feedback to a user regarding one or
more techniques of firearm operation, based on analysis of the data col-
lected by the plurality of sensors during operation of the firearm.

WO 2023/042195 A1