

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
29 September 2022 (29.09.2022)



(10) International Publication Number
WO 2022/201094 A1

(51) International Patent Classification:

F41A 17/00 (2022.01) *F41G 3/06* (2022.01)
F41G 1/00 (2022.01) *F41G 3/08* (2022.01)

(21) International Application Number:

PCT/IB2022/052716

(22) International Filing Date:

24 March 2022 (24.03.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

281842 25 March 2021 (25.03.2021) IL

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

(72) Inventors: **EHRlich**, Avshalom; POB 155, 1923800
Kibbutz Ramat Hashofet (IL). **Krupnik**, Hagai; HaEmek

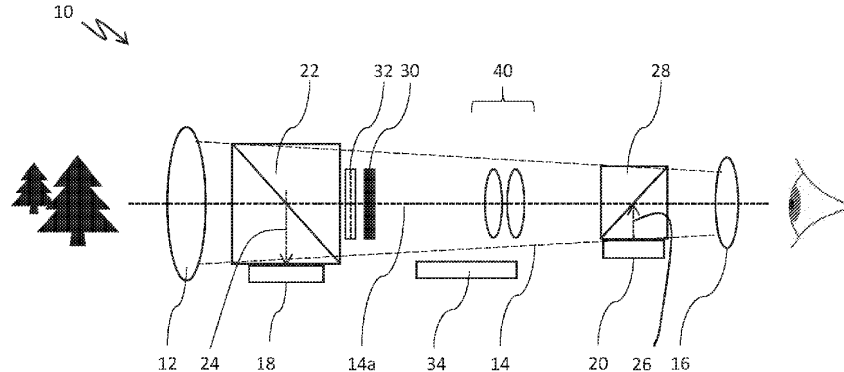
St 251, Nofit (IL). **LEVY, Dor**; 1790500 Kibbutz Hasole-
lim (IL). **GILADI, Zahi**; 3658700 Kibbutz Ramat David
(IL).

(74) Agent: **FRIEDMAN, Mark**; 7 Jabotinsky St., Moshe Aviv
Tower, 54th Floor, 5252007 Ramat Gan (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, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, 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.

(54) Title: TELESCOPIC SIGHT

FIG. 1



(57) Abstract: A telescopic sight for firearms including: magnifying elements disposed along a user optical path between an objective lens assembly and an ocular lens; an imaging system including an imaging sensor and an image processor; a digital optical augmentation (DOA) system disposed outside of the user optical path; at least one optical element adapted to: redirect a spectrum of incoming light from the objective lens assembly to the imaging sensor along a video optical path, redirect/reflect digital markings projected from the DOA system into the user optical path and disallow the projected digital markings from reaching the imaging sensor, and wherein the imaging system is adapted to capture and process imagery from the incoming light to provide image processing data.

[Continued on next page]

(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).

Published:

- *with international search report (Art. 21(3))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*