



(51) International Patent Classification:

G03B 17/48 (2021.01) G03B 17/56 (2021.01)
H04N 23/60 (2023.01) G06F 1/16 (2006.01)
G06N 20/00 (2019.01) H04N 7/18 (2006.01)

(21) International Application Number:

PCT/US2024/026645

(22) International Filing Date:

26 April 2024 (26.04.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/462,859	28 April 2023 (28.04.2023)	US
63/621,902	17 January 2024 (17.01.2024)	US
63/624,204	23 January 2024 (23.01.2024)	US
63/624,211	23 January 2024 (23.01.2024)	US

(71) Applicant: EYEZENSE, INC. [US/US]; 39899 Balentine Dr. Ste 200, Newark, California 94560 (US).

(72) Inventors: YUNG, Steven; 36992 Papaya Street, Newark, California 94560 (US). BAO, Keijie; 929 De Guigne Dr. Unit 1, Sunnyvale, California 94085 (US). SHANG, Shu-rui; 1774 Parkview Green Circle, San Jose, California 94131 (US). LUDERS, Wade; 7039 Livery Ln, San Jose, California 95135 (US). KUMAR, Sharvan; 36992 Papaya Street, Newark, California 94560 (US). DOAN, Phillip; 2410 Arden Way, San Jose, California 95122 (US).

(74) Agent: OWENS, Jonathan; 162 North Wolfe Road, Sunnyvale, California 94086 (US).

(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,

(54) Title: AN AI ENHANCED UNIFIED SECURITY SYSTEM

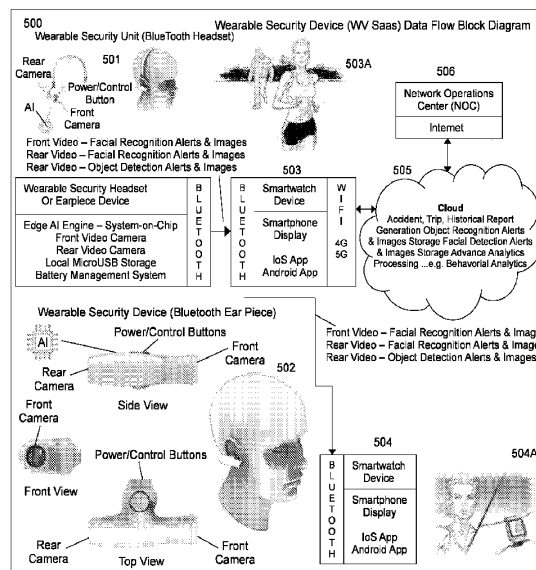


FIG. 5

(57) Abstract: A Security System comprises (1) a Wearable Edge Computing AI Chipset (Edge AI) interoperating with one or more Cameras into a Wearable Security System, In-Vehicle Security System, and a Home Security System as part of the Unified AI (Artificial Intelligence) Security System. The security system contains one or more GPS tracked devices that utilizes either an Edge Computing AI Chipset containing a System-on-Chip (SOC) or a custom design Application-Specific Integrated Circuit (ASIC). The Wearable, In-Vehicle and Home Security Systems are controlled by a common Application Programming Interface (API) residing in the Cloud. Each camera video stream is analyzed by the Wearable Edge AI Chipset to detect objects, behaviors, or patterns of interest. When the required conditions are met, alerts are then triggered and sent to the user's mobile app on the cell phone for user review and display, and to his/her trusted contacts.

[Continued on next page]

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, MG, MK, MN, MU, 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, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))