



- (51) **International Patent Classification:**
G06K 9/00 (2022.01)
- (21) **International Application Number:**
PCT/CN2022/108821
- (22) **International Filing Date:**
29 July 2022 (29.07.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
202110939496.9 16 August 2021 (16.08.2021) CN
- (71) **Applicant:** ZHEJIANG DAHUA TECHNOLOGY CO., LTD. [CN/CN]; No. 1187 Binan Road, Binjiang District, Hangzhou, Zhejiang 310053 (CN).
- (72) **Inventors:** ZHENG, Shaolong; No. 1187 Binan Road, Binjiang District, Hangzhou, Zhejiang 310053 (CN). WANG, Tingniao; No. 1187 Binan Road, Binjiang District, Hangzhou, Zhejiang 310053 (CN). LIU, Xiaomu; No. 1187 Binan Road, Binjiang District, Hangzhou, Zhejiang 310053 (CN).
- (74) **Agent:** METIS IP (CHENGDU) LLC; Room 401, 4th Floor, Unit 1 of Building 1, No. 269 North Section of Hu-

pan Road, Tianfu New District, China Free Trade Zone (Sichuan), Chengdu, Sichuan 610213 (CN).

- (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).

- (54) **Title:** METHODS, SYSTEMS, AND COMPUTER-READABLE STORAGE MEDIUMS FOR DETECTING STATE OF SIGNAL LIGHT

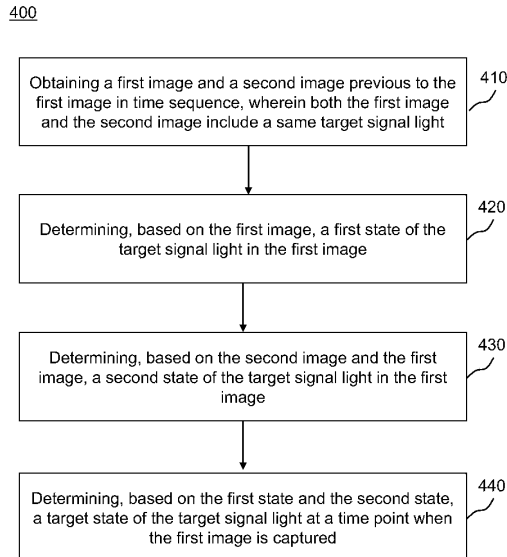


FIG. 4

- (57) **Abstract:** Methods, devices, computer-readable storage mediums for detecting a signal light are provided. The method may include obtaining a first image and a second image previous to the first image in time sequence, wherein both the first image and the second image include a same target signal light (410); determining, based on the first image, a first state of the target signal light in the first image (420); determining, based on the second image and the first image, a second state of the target signal light in the first image (430); and determining, based on the first state and the second state, a target state of the target signal light at a time point when the first image is captured (440).

Published:

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