

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 February 2023 (02.02.2023)



(10) International Publication Number
WO 2023/005091 A1

(51) International Patent Classification:
G06V 10/80 (2022.01)

(21) International Application Number:
PCT/CN2021/135789

(22) International Filing Date:
06 December 2021 (06.12.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
202110875131.4 30 July 2021 (30.07.2021) CN

(71) Applicant: **ZHEJIANG DAHUA TECHNOLOGY CO., LTD.** [CN/CN]; No. 1187 Binan Road, Binjiang District, Hangzhou, Zhejiang 310053 (CN).

(72) Inventors: **ZOU, Wei**; No. 1187 Binan Road, Binjiang District, Hangzhou, Zhejiang 310053 (CN). **WU, Lifeng**; 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 Hupan Road, Tianfu New District, Chengdu City, 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, 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, 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).

Published:

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

(54) Title: SYSTEMS AND METHODS FOR OBJECT DETECTION

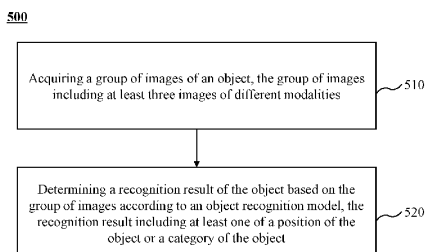


FIG. 5

(57) Abstract: Systems and methods for object detection. The method may include acquiring a group of images of an object. The group of images may include at least three images of different modalities. The method may further include determining a recognition result of the object based on the group of images according to an object recognition model. The recognition result may include at least one of a position of the object or a category of the object.

WO 2023/005091 A1