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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/794,138	07/20/2022	Shingo TSURUMI	1946-1774	3513
142241	7590	12/27/2024	EXAMINER	
Paratus Law Group, PLLC			ZHAO, LEI	
1765 Greensboro Station Place			ART UNIT	
Suite 320			PAPER NUMBER	
Tysons Corner, VA 22102			2668	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 17/794,138	Applicant(s) TSURUMI, Shingo	
	Examiner LEI ZHAO	Art Unit 2668	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12/5/2024.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

- 5) ☒ Claim(s) 1-14 is/are pending in the application.
5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-14 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 7/20/2022 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

- a) ☒ All b) ☐ Some** c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)
Paper No(s)/Mail Date _____
- 3) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 4) ☐ Other: _____

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Response to Arguments

Applicant's arguments filed December 5, 2024 have been fully considered but they are not persuasive.

Regarding rejection of Claims 1-6, 12, and 14 as being anticipated by Goji (Japan Patent Pub. No.: JP 2016-170603 A) under 35 U.S.C. § 102(a)(1), examiner maintains that the teachings of Goji disclose or suggest each and every limitation of claims 1-6, 12, and 14, arranged as recited in those claims. See rejections for individual claims cited below.

Regarding claims 1, 12 and 14,

(1) applicant states that "Goji does not consider using an attribute of the object, a CPU load, or magnitude of movement of the object related to an importance level to determine a region suitable for tracking.". Examiner disagrees with this statement. Goji teaches "the allocation of the tracking parts to the particles in the new tracking person may be randomly performed or may be performed at a predetermined ratio for each part such as head 30%, abdomen 20%, left shoulder 20%, and right shoulder 20%" ([0028]). Head, abdomen, left shoulder and right shoulder are attributes of the object. It is also reasonable to construe the ratio assigned to each region is related to an importance level of each region.

Regarding claims 2-6, claims 2-6 are dependent claims depending upon claims 1. See rejections for individual claims cited below.

Response to Amendment

The Amendment of December 5, 2024 overcomes the following rejection:

- a. Rejection of claims 12 and 13 based on 35 USC 101.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

(a)(2) the claimed invention was described in a patent issued under section 151, or in an application for patent published or deemed published under section 122(b), in which the patent or application, as the case may be, names another inventor and was effectively filed before the effective filing date of the claimed invention.

Claims 1-6, 12 and 14 are rejected under 35 U.S.C. 102(a)(1) as being anticipated by Goji (Japan Patent Pub. No.: JP 2016-170603 A).

Regarding claim 1, Goji teaches **an information processing device comprising: a control unit (tracking unit 4) configured to track an object in an image using images input in time series** (The image capturing unit 2 is connected to the tracking unit 4, captures the monitoring space at predetermined time intervals, and sequentially outputs the captured time-series monitoring images to the tracking unit 4. [0017]), **using a tracking result obtained by performing tracking in units of a tracking region corresponding to a specific part of the object** (The tracking part setting unit 41 (part setting unit) determines a part to be tracked by the particle filter for the person set as the tracking target by the tracking person setting unit 40,

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generates the tracking part information 21 for each part, and stores the tracking part information 21 in the storage unit 3. [0025]), wherein the control unit determines a setting of the tracking region to be used for tracking in the units of the tracking region according to an importance level related to tracking based on a predetermined index (The allocation of the tracking parts to the particles in the new tracking person may be randomly performed or may be performed at a predetermined ratio for each part such as head 30%, abdomen 20%, left shoulder 20%, and right shoulder 20%. [0028]. It is reasonable to construe the predetermined ratio for each region indicates an importance level of each region.), the predetermined index includes at least one of an attribute of the object, a CPU load, or magnitude of movement of the object, and the control unit is implemented via at least one processor (The allocation of the tracking parts to the particles in the new tracking person may be randomly performed or may be performed at a predetermined ratio for each part such as head 30%, abdomen 20%, left shoulder 20%, and right shoulder 20%. [0028]).

Regarding claim 2, Goji teaches **the information processing device according to claim 1, wherein the control unit ~~extracts~~ is further configured to extract a configuration element of the object in the image using the image** (The parts can be selected by a method of using predetermined parts such as a head, a left shoulder, a right shoulder, a left hip, a right hip, and an abdomen [0025]), **and ~~detects~~ detect the object in the image using an extraction result** (A monitoring image input from an imaging part 2 is processed to detect a person in a monitoring space, the detected person is tracked by a particle filter, and a tracking result is output to an output part 5. [0022]).

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