

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.: 19/246,313

First Named Inventor: YASUHARU YAMAUCHI

Filing Date: Jun 23 2025

Title: INFORMATION PROCESSING APPARATUS,
PARTICLE ANALYSIS APPARATUS, PARTICLE
FRACTIONATION APPARATUS, AND
INFORMATION PROCESSING METHOD

Group Art Unit: 2858

Examiner: -

Confirmation No.: 3522

Attorney Docket No.: S1459.72765US01

TRANSMITTAL LETTER for INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicant(s) wish to disclose the following information listed on the attached Information Disclosure Statement by Applicant (IDS).

This submission should not be construed as a representation that a search has been made or as an admission that any or all information on the attached IDS is prior art or is either relevant or material to patentability. Nevertheless, in the interest of full disclosure and good faith, Applicant(s) submit the information for consideration by the Examiner and request the Examiner initial the attached IDS, indicating the Examiner has considered the listed information.

☒ I. This IDS is being submitted pursuant to 37 CFR § 1.97(b) during one of the following time periods:

- (1) Within three months of the filing date of a national application other than a Continued Prosecution Application under 37 CFR § 1.53(d);
- (2) Within three months of the date of entry of the national stage as set forth in 37 CFR § 1.491 in an international application;
- (3) Before the mailing of a first Office Action on the merits;
- (4) Before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 CFR § 1.114; or
- (5) Within three months of the date of publication of the international registration under Hague Agreement Article 10(3) in an international design application.

☐ II. This IDS is being submitted pursuant to 37 CFR § 1.97(c) after the period specified in 37 CFR § 1.97(b), but before the mailing date of a final Office Action under 37 CFR § 1.113, a Notice of Allowance under 37 CFR § 1.311, or an action that otherwise closes prosecution in the application. Furthermore, this IDS is accompanied by one of the following:

- ☐ A. The fee set forth in 37 CFR § 1.17(p); or
- ☐ B. The statement specified in 37 CFR § 1.97(e):
 - ☐ (1) Each item of information contained in the IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS.
 - ☐ (2) No item of information contained in the IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of the IDS.

- ☐ III. This IDS is being submitted pursuant to 37 CFR § 1.97(d) after the period specified in 37 CFR § 1.97(c), but on or before the payment of the issue fee.

Furthermore, this IDS is accompanied by both:

A. The fee set forth in 37 CFR § 1.17(p); and

B. The statement specified in 37 CFR § 1.97(e):

- ☐ 1. Each item of information contained in the IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS.
- ☐ 2. No item of information contained in the IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of the IDS.

37 CFR § 1.98 – WRITTEN ASSERTION AND IDS SIZE FEE

- ☒ I. The cumulative number of references submitted by Applicant(s), including the references in this IDS, is 50 or less. No fee under 37 CFR § 1.17(v) is due with this IDS.
- ☐ II. The cumulative number of references submitted by Applicant(s), including the references in this IDS, is more than 50, but not more than 100.
- ☐ A. The fee under 37 CFR § 1.17(v)(1) is due and is submitted with this IDS.
(fee submitted \$200.00)
- ☐ B. No fee under 37 CFR § 1.17(v) is due with this IDS. The fee under 37 CFR § 1.17(v)(1) has already been paid.
- ☐ III. The cumulative number of references submitted by Applicant(s), including the references in this IDS, is more than 100, but not more than 200.

- ☐ A. The fee under 37 CFR § 1.17(v)(2) is due and is submitted with this IDS.
(fee submitted \$500.00)
 - ☐ B. The fee under 37 CFR § 1.17(v)(2), less the fee under 37 CFR § 1.17(v)(1),
is due and is submitted with this IDS (fee submitted \$300.00). The fee under
37 CFR § 1.17(v)(1) has already been paid.
 - ☐ C. No fee under 37 CFR § 1.17(v) is due with this IDS. The fees under 37
CFR § 1.17(v)(1) and 37 CFR § 1.17(v)(2) have already been paid.
- ☐ IV. The cumulative number of references submitted by Applicant(s), including the
references in this IDS, is more than 200.
- ☐ A. The fee under 37 CFR § 1.17(v)(3) is due and is submitted with this IDS.
(fee submitted \$800.00)
 - ☐ B. The fee under 37 CFR § 1.17(v)(3), less the fee under 37 CFR § 1.17(v)(1),
is due and is submitted with this IDS (fee submitted \$600.00). The fee under
37 CFR § 1.17(v)(1) has already been paid.
 - ☐ C. The fee under 37 CFR § 1.17(v)(3), less the fees under 37 CFR §
1.17(v)(1) and 37 CFR § 1.17(v)(2), is due and is submitted with this IDS (fee
submitted \$300.00). The fees under 37 CFR § 1.17(v)(1) and 37 CFR §
1.17(v)(2) have already been paid.
 - ☐ D. No fee under 37 CFR § 1.17(v) is due with this IDS. The fees under 37
CFR § 1.17(v)(1), 37 CFR § 1.17(v)(2), and 37 CFR § 1.17(v)(3) have already
been paid.
 - ☐ E. No fee under 37 CFR § 1.17(v) is due with this IDS. The cumulative
number of references submitted by Applicant was more than 200 before
January 19, 2025.

Appl. No.: 19/246,313

The Commissioner is hereby authorized to charge any underpayment or credit any overpayment to Deposit Account No. 19-3195.

Respectfully submitted,

Dated: 4/7/2026

By: / Hans R. Mahr /
Hans R. Mahr
Reg. No. 46,138

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet | 1

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of

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Complete if Known

Application Number	19/246,313
Filing Date	Jun 23 2025
First Named Inventor	YASU HARU YAMAUCHI
Art Unit	2858
Examiner Name	-
Attorney Docket Number	S1459.72765US01

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		CN-111238380-A	06-05-2020	NISHIDA KAZUFUMI		✓
		JP-2018031660-A	03-01-2018	TOTOKI SHINICHIRO		✓

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(Use as many sheets as necessary)***Complete if Known**

Application Number	19/246,313
Filing Date	Jun 23 2025
First Named Inventor	YASUHARU YAMAUCHI
Art Unit	2858
Examiner Name	-
Attorney Docket Number	S1459.72765US01

Sheet

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of

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		FU, XIAO-IAN et al. "Establishment of a Compensation Method for Polychromatic Flow Cytometry Based on CompBeads." Immunological Journal, vol. 24, no. 3, 2008, pp. 340-345.	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0031. Public burden for this form is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

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Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

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Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections, or an issued patent, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.