

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI373115

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Title from: ORDER COMPLIANCE TRACKING OF ELECTRONIC COMPONENTS to: METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR ORDER COMPLIANCE TRACKING OF ELECTRONIC COMPONENTS previously recorded on Reel 57538 Frame 860. Assignor(s) hereby confirms the Assignment.
CONVEYING PARTY DATA	
Name	Execution Date
Christine Mary Bunke	09/17/2021
Rasit Onur Topaloglu	09/17/2021
Vivian Zhang Di Tore	09/16/2021
RECEIVING PARTY DATA	
Company Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17480169
CORRESPONDENCE DATA	
Fax Number:	3308709936
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	6074295281
Email:	IBMPatentsTeam@us.ibm.com
Correspondent Name:	IP Law Patents+ Team
Address Line 1:	2800 37th Street NW
Address Line 4:	Rochester, MINNESOTA 55901-4441
ATTORNEY DOCKET NUMBER:	P202100963US01
NAME OF SUBMITTER:	Frances Diaz
SIGNATURE:	Frances Diaz
DATE SIGNED:	07/19/2024
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 19

source=P202100963US01 Corrected Recordation Attachments#page1.tiff
source=P202100963US01 Corrected Recordation Attachments#page2.tiff
source=P202100963US01 Corrected Recordation Attachments#page3.tiff
source=P202100963US01 Corrected Recordation Attachments#page4.tiff
source=P202100963US01 Corrected Recordation Attachments#page5.tiff
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source=P202100963US01 Corrected Recordation Attachments#page7.tiff
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**Electronic Patent Assignment System**

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Your assignment has been received by the USPTO.
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>CHRISTINE MARY BUNKE</td> <td>09/17/2021</td> </tr> <tr> <td>RASIT ONUR TOPALOGLU</td> <td>09/17/2021</td> </tr> <tr> <td>VIVIAN ZHANG DI TORE</td> <td>09/16/2021</td> </tr> </tbody> </table>		Name	Execution Date	CHRISTINE MARY BUNKE	09/17/2021	RASIT ONUR TOPALOGLU	09/17/2021	VIVIAN ZHANG DI TORE	09/16/2021
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VIVIAN ZHANG DI TORE	09/16/2021								
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Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION								
Street Address:	NEW ORCHARD ROAD								
City:	ARMONK								
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<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>17480169</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	17480169				
Property Type	Number								
Application Number:	17480169								
CORRESPONDENCE DATA									
Fax Number:	(607)429-4119								

PATENT**REEL: 068462 FRAME: 0457**

Phone: 6074295281
Email: fdciplaw@us.ibm.com
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.
Correspondent Name: IBM CORPORATION - PATENT CENTER
Address Line 1: 1701 NORTH STREET
Address Line 2: B/403
Address Line 4: ENDICOTT, NEW YORK 13760

ATTORNEY DOCKET NUMBER:

P202100963US01

NAME OF SUBMITTER:

ERIKA J. FLORES

Signature:

/Erika J. Flores/

Date:

09/21/2021

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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RECEIPT INFORMATION
EPAS ID: PAT6926127

Receipt Date: 09/21/2021

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PATENT
REEL: 068462 FRAME: 0458



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

105995 7590 07/09/2024
IBM CORPORATION - PATENTS+ TEAM
2800 37th Street NW
Rochester, MN 55901

Table with 2 columns: EXAMINER (WEINER, ARIELLE E), ART UNIT (3684), PAPER NUMBER.

DATE MAILED: 07/09/2024

Table with 5 columns: APPLICATION NO. (17/480,169), FILING DATE (09/21/2021), FIRST NAMED INVENTOR (Christine Mary Bunke), ATTORNEY DOCKET NO. (P202100963US01), CONFIRMATION NO. (4749)

TITLE OF INVENTION: METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR ORDER COMPLIANCE TRACKING OF ELECTRONIC COMPONENTS

Table with 7 columns: APPLN. TYPE (nonprovisional), ENTITY STATUS (UNDISCOUNTED), ISSUE FEE DUE (\$1200), PUBLICATION FEE DUE (\$0.00), PREV. PAID ISSUE FEE (\$0.00), TOTAL FEE(S) DUE (\$1200), DATE DUE (10/09/2024)

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: **Mail Stop ISSUE FEE**
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

105995 7590 07/09/2024
IBM CORPORATION - PATENTS+ TEAM
 2800 37th Street NW
 Rochester, MN 55901

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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17/480,169 09/21/2021 Christine Mary Bunke P202100963US01 4749

TITLE OF INVENTION: METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR ORDER COMPLIANCE TRACKING OF ELECTRONIC COMPONENTS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
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nonprovisional UNDISCOUNTED \$1200 \$0.00 \$0.00 \$1200 10/09/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
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WEINER, ARIELLE E 3684 705-026250

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.
- "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : Individual Corporation or other private group entity Government

4a. Fees submitted: Issue Fee Publication Fee (if required)

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

- Electronic Payment via the USPTO patent electronic filing system Enclosed check Non-electronic payment by credit card (Attach form PTO-2038)
- The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

- Applicant certifying micro entity status. See 37 CFR 1.29
- Applicant asserting small entity status. See 37 CFR 1.27
- Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.
Row 1: 17480,169 | 09/21/2021 | Christine Mary Bunke | P202100963US01 | 4749
Row 2: 105995 | 7590 | 07/09/2024 | | |
Row 3: EXAMINER WEINER, ARIELLE E
Row 4: ART UNIT 3684 | PAPER NUMBER
Row 5: DATE MAILED: 07/09/2024

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).

<https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf>

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
- 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 17/480,169	Applicant(s) Bunke et al.	
	Examiner ARIELLE E WEINER	Art Unit 3684	AIA (FITF) Status Yes

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

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to Applicant's Amendments and Remarks dated 04/02/2024.
 A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.
2. 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.
3. The allowed claim(s) is/are 1,7-8,15,22-24,26 and 31-39 . As a result of the allowed claim(s), 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.
4. 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)).

* Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____. | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material _____. | 7. <input type="checkbox"/> Other _____. |
| 4. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date. <u>06/18/2024</u> . | |

/ARIELLE E WEINER/
Primary Examiner, Art Unit 3684

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephonic correspondence on June 18, 2024 and a follow-up email correspondence on June 19, 2024 with Elliot Shine.

The application has been amended as follows:

In the Title

METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR ORDER COMPLIANCE TRACKING OF ELECTRONIC COMPONENTS

In the Claims

1. (Currently Amended) A method for order compliance, the method comprising:
constructing a knowledge corpus of a plurality of importation requirements for a plurality of shipping destinations;

identifying a location of the a user based on an IP address of a user mobile device and determining a shipping destination for an order request received from a user in an order fulfillment user interface based on the location; using one or more geolocation techniques and in response to identifying the location of the user based on the IP address of the mobile device, displaying a pop-up window in the order fulfillment user interface to verify[[ing]] the

shipping destination with the user ~~in the order fulfillment user interface~~, wherein the order request includes one or more items;

generating a digital twin for each of the one or more items included in the order request;
identifying at least one noncompliant item within the one or more items of the order request based on an overlap of equivalent part numbers with a previously generated digital twin stored in the knowledge corpus determined based on a clustering analysis performed using a machine learning model and one or more clustering algorithms;

classifying the at least one noncompliant item as noncompliant for the shipping destination based on a classification analysis performed using a binary classification model, wherein the at least one noncompliant item is classified as noncompliant based on a comparison of the at least one non-compliant item with one or more previously generated digital twins for similar items and a same shipping destination;

generating a compliance report for the order request, ~~wherein the compliance report is displayed to the user in the order fulfillment user interface and is comprised of one or more visual cues for distinguishing the at least one noncompliant item from one or more compliant items in the order request;~~

in response to classifying the at least one noncompliant item as noncompliant:

displaying, in the order fulfillment user interface, the compliance report, wherein the compliance report is comprised of one or more visual cues that distinguish the at least one noncompliant item from one or more compliant items included in the order request,
and

presenting one or more prompts to the user in the order fulfillment user interface, wherein the one or more prompts request additional information with respect to the at

least one non-compliant item of the order request, wherein the additional information includes one or more products the at least one noncompliant item would interact with and a price range for one or more potential substitute items;

in response to the user transmitting, via the order fulfillment user interface, the additional information, simulating one or more interactions between the one or more potential substitute items and the one or more products the at least one noncompliant item would interact with, ~~wherein and displaying~~ a visual representation of the one or more interactions ~~is displayed~~ to the user in the order fulfillment user interface; and

recommending, in the order fulfillment user interface, at least one ~~or more~~ substitute item[[s]] for the at least one noncompliant item based on simulation data generated from the one or more interactions.

5. (Cancelled)

8. (Currently Amended) A computer system for order compliance, comprising:

one or more processors, one or more computer-readable memories, one or more computer-readable tangible storage medium, and program instructions stored on at least one of the one or more tangible storage medium for execution by at least one of the one or more processors via at least one of the one or more memories, wherein the computer system is capable of performing a method comprising:

constructing a knowledge corpus of a plurality of importation requirements for a plurality of shipping destinations;

identifying a location of the a user based on an IP address of a user mobile device and
determining a shipping destination for an order request received from a user in an order
fulfillment user interface based on the location; using one or more geolocation techniques and
in response to identifying the location of the user based on the IP address of the mobile
device, displaying a pop-up window in the order fulfillment user interface to verify[[ing]] the
shipping destination with the user ~~in the order fulfillment user interface~~, wherein the order
request includes one or more items;

generating a digital twin for each of the one or more items included in the order request;
identifying at least one noncompliant item within the one or more items of the order
request based on an overlap of equivalent part numbers with a previously generated digital twin
stored in the knowledge corpus determined based on a clustering analysis performed using a
machine learning model and one or more clustering algorithms;

classifying the at least one noncompliant item as noncompliant for the shipping
destination based on a classification analysis performed using a binary classification model,
wherein the at least one noncompliant item is classified as noncompliant based on a comparison
of the at least one non-compliant item with one or more previously generated digital twins for
similar items and a same shipping destination;

generating a compliance report for the order request, ~~wherein the compliance report is~~
~~displayed to the user in the order fulfillment user interface and is comprised of one or more~~
~~visual cues for distinguishing the at least one noncompliant item from one or more compliant~~
~~items in the order request;~~

in response to classifying the at least one noncompliant item as noncompliant:

displaying, in the order fulfillment user interface, the compliance report, wherein the compliance report is comprised of one or more visual cues that distinguish the at least one noncompliant item from one or more compliant items included in the order request, and

presenting one or more prompts to the user in the order fulfillment user interface, wherein the one or more prompts request additional information with respect to the at least one non-compliant item of the order request, wherein the additional information includes one or more products the at least one noncompliant item would interact with and a price range for one or more potential substitute items;

in response to the user transmitting, via the order fulfillment user interface, the additional information, simulating one or more interactions between the one or more potential substitute items and the one or more products the at least one noncompliant item would interact with, ~~wherein and displaying~~ a visual representation of the one or more interactions ~~is displayed~~ to the user in the order fulfillment user interface; and

recommending, in the order fulfillment user interface, at least one ~~or more~~ substitute item[[s]] for the at least one noncompliant item based on simulation data generated from the one or more interactions.

12. (Cancelled)

15. (Currently Amended) A computer program product for order compliance, comprising one or more non-transitory computer-readable tangible storage media and program instructions stored on at least one of the one or more non-transitory computer-readable tangible

storage media, the program instructions executable by a processor to cause the processor to perform a method comprising:

constructing a knowledge corpus of a plurality of importation requirements for a plurality of shipping destinations;

identifying a location of the a user based on an IP address of a user mobile device and determining a shipping destination for an order request received from a user in an order fulfillment user interface based on the location; using one or more geolocation techniques and in response to identifying the location of the user based on the IP address of the mobile device, displaying a pop-up window in the order fulfillment user interface to verify[[ing]] the shipping destination with the user in the order fulfillment user interface, wherein the order request includes one or more items;

generating a digital twin for each of the one or more items included in the order request;

identifying at least one noncompliant item within the one or more items of the order request based on an overlap of equivalent part numbers with a previously generated digital twin stored in the knowledge corpus determined based on a clustering analysis performed using a machine learning model and one or more clustering algorithms;

classifying the at least one noncompliant item as noncompliant for the shipping destination based on a classification analysis performed using a binary classification model, wherein the at least one noncompliant item is classified as noncompliant based on a comparison of the at least one non-compliant item with one or more previously generated digital twins for similar items and a same shipping destination;

generating a compliance report for the order request, ~~wherein the compliance report is displayed to the user in the order fulfillment user interface and is comprised of one or more~~

~~visual cues for distinguishing the at least one noncompliant item from one or more compliant items in the order request;~~

in response to classifying the at least one noncompliant item as noncompliant:

displaying, in the order fulfillment user interface, the compliance report, wherein the compliance report is comprised of one or more visual cues that distinguish the at least one noncompliant item from one or more compliant items included in the order request,
and

presenting one or more prompts to the user in the order fulfillment user interface, wherein the one or more prompts request additional information with respect to the at least one non-compliant item of the order request, wherein the additional information includes one or more products the at least one noncompliant item would interact with and a price range for one or more potential substitute items;

in response to the user transmitting, via the order fulfillment user interface, the additional information, simulating one or more interactions between the one or more potential substitute items and the one or more products the at least one noncompliant item would interact with, ~~wherein and displaying~~ a visual representation of the one or more interactions ~~is displayed~~ to the user in the order fulfillment user interface; and

recommending, in the order fulfillment user interface, at least one ~~or more~~ substitute item[[s]] for the at least one noncompliant item based on simulation data generated from the one or more interactions.

18. (Cancelled)

34. (Currently Amended) The method of claim 1, further comprising: generating compliance details for the at least one noncompliant item based on the overlap ~~or the distance~~ ~~determined using the one or more clustering algorithms~~, wherein the compliance report includes compliance details derived from the compliance details associated with the one or more previously generated digital twins for similar items and the same shipping destination, wherein the compliance details and a corresponding noncompliant part of the at least one noncompliant item are presented to the user in the order fulfillment user interface.

Reasons for Allowance

Claims 1, 7-8, 15, 22-24, 26, and 31-39 are allowable.

The following is an examiner's statement of reasons for allowance:

Rejections under 35 U.S.C. §101

Regarding 35 U.S.C. §101, the amended claims, **when looked at as a whole**, are eligible over 101 as the abstract idea is integrated into a practical application under Prong Two of Step 2A. Specifically, the combination of the limitations regarding the pop-up window being displayed in the order fulfillment user interface in response to using an IP address of the a user mobile device, as well as, displaying the visual cues in the compliance report and the one or more prompts in response to classifying the at least one noncompliant item as noncompliant apply or use the judicial exception in some other meaningful way beyond generally linking the use of the judicial exception to a particular technological environment.

Regarding 35 U.S.C. §103, upon review of the evidence at hand, it is hereby concluded that the totality of the evidence, alone or in combination, neither anticipates, reasonably teaches, nor renders obvious the below noted features of the applicant's invention.

Claims 1, 7-8, 15, 22-24, 26, and 31-39 are allowable under 35 USC § 103 as follows:

The claims are allowable under 35 USC § 103 for the reasons detailed in the Non-Final Office Action dated 01/09/2024.

The most relevant NPL is the cited NPL reference U (cited 06/16/2023, 09/28/2023, 01/04/2024, and 06/20/2024 in PTO-892) teaches utilizing a digital twin that combines simulation and machine learning, but does not teach or suggest alone or in combination the claimed invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARIELLE E WEINER whose telephone number is (571)272-9007. The examiner can normally be reached M-F 8:30-5:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Maria-Teresa (**Marissa**) **Thein** can be reached on 571-272-6764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/ARIELLE E WEINER/
Primary Examiner, Art Unit 3684