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Application Number: 18357451

Document Date: 07/24/2023

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	56000-701.303
		Application Number	
Title of Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 Remove				
Legal Name				
Prefix	Given Name	Middle Name	Family Name	Suffix
	Nicholas	Kingsley	Mason	
Residence Information (Select One) ☐ US Residency ☒ Non US Residency ☐ Active US Military Service				
City	St Albans	Country of Residence ⁱ	GB	
Mailing Address of Inventor:				
Address 1	22 – 25 Farringdon Street			
Address 2				
City	London	State/Province		
Postal Code	EC4A 4AB	Country ⁱ	GB	
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add				

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).	
☐ An Address is being provided for the correspondence information of this application.	
Customer Number	21971
Email Address	patentdocket@wsgr.com Add Email Remove Email

Application Information:

Title of the Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION		
Attorney Docket Number	56000-701.303	Small Entity Status Claimed	☐
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	20	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	56000-701.303
		Application Number	
Title of Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION		

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	21971		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Continuation of	17/830566	2022-06-02

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		56000-701.303	
		Application Number			
Title of Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION				
Prior Application Status		Patented		Remove	
Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
17/830566	Continuation of	17/347899	2021-06-15	11379651	2022-07-05
Prior Application Status		Expired		Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)		
17/347899	Claims benefit of provisional	63/048512	2020-07-06		
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.					Add

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

		Remove	
Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)
Additional Foreign Priority Data may be generated within this form by selecting the Add button.			Add

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

☐ NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	56000-701.303
		Application Number	
Title of Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	56000-701.303
		Application Number	
Title of Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
☒ Assignee	☐ Legal Representative under 35 U.S.C. 117	☐ Joint Inventor	
☐ Person to whom the inventor is obligated to assign.	☐ Person who shows sufficient proprietary interest		
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	Turtl Surf & Immerse Limited		
Mailing Address Information For Applicant:			
Address 1	22 – 25 Farringdon Street		
Address 2			
City	London	State/Province	
Country	GB	Postal Code	EC4A 4AB
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button. Add			

Assignee Information including Non-Applicant Assignee Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	56000-701.303
		Application Number	
Title of Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION		

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

[Remove](#)

If the Assignee or Non-Applicant Assignee is an Organization check here. ☐

Prefix	Given Name	Middle Name	Family Name	Suffix

Mailing Address Information For Assignee including Non-Applicant Assignee:

Address 1			
Address 2			
City		State/Province	
Country ⁱ		Postal Code	
Phone Number		Fax Number	
Email Address			

Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.

[Add](#)**Signature:**[Remove](#)

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Shuaimin Liu/		Date (YYYY-MM-DD)	2023-07-24	
First Name	Shuaimin	Last Name	Liu	Registration Number	L1361

Additional Signature may be generated within this form by selecting the Add button.

[Add](#)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	56000-701.303
		Application Number	
Title of Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION		

This collection of information is required by 37 CFR 1.76. 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 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet 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, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to 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)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public 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.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	
Filing Date	
First Named Inventor	
Title	
Art Unit	
Examiner Name	
Attorney Docket Number	

SIGNATURE of Applicant or Patent Practitioner

Signature		Date (Optional)	
Name		Registration Number	
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.			
*Total of _____ forms are submitted.			

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 1.11 and 1.14. This collection is estimated to take 3 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, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)



I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above:

021971

OR



I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:



The address associated with the above-mentioned Customer Number

OR



The address associated with Customer Number:

OR



Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

Turtl Surf & Immerse Limited



Inventor or Joint Inventor (title not required below)



Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)



Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)



Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

7.9.21

Name

Susan Court

Title

General Counsel/Director of Customer Success

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.



Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. 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 1.11 and 1.14. This collection is estimated to take 3 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, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

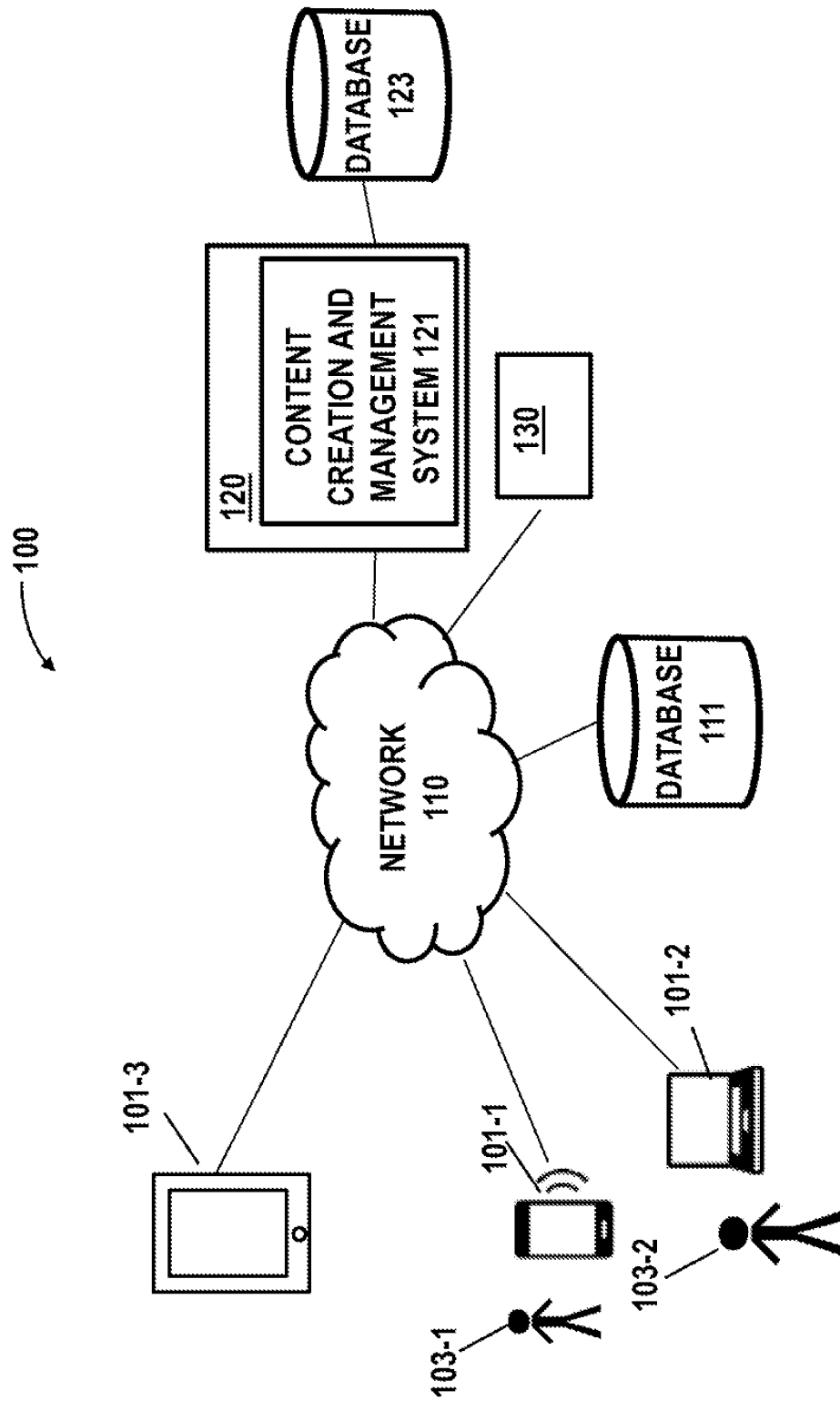


FIG. 1

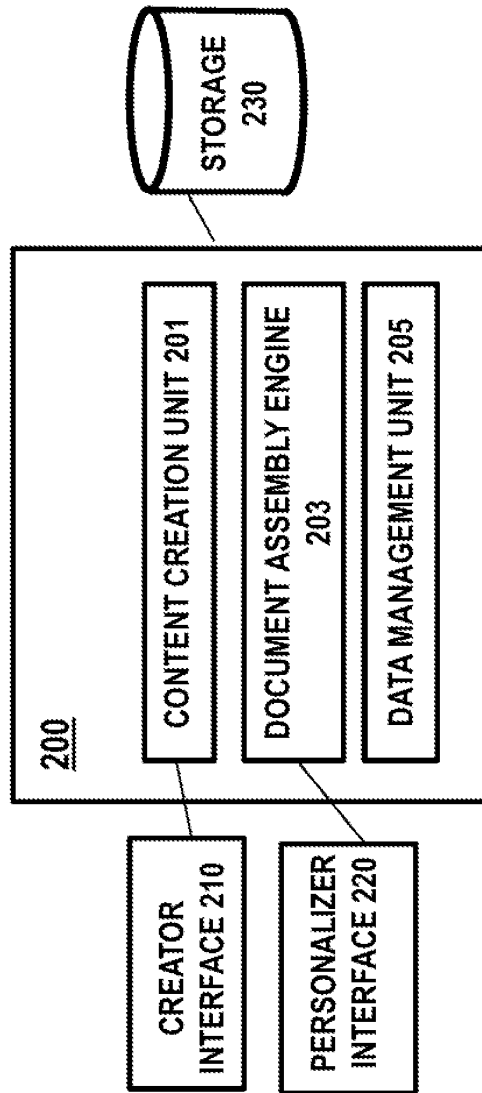


FIG. 2

300

PAGE 15

SURF

IMMERSE

Hidden

UNLESS

State is New York

OR

State is Nebraska

OR

AND

Revenue less 2,000,000

OR

AND

FIG. 3

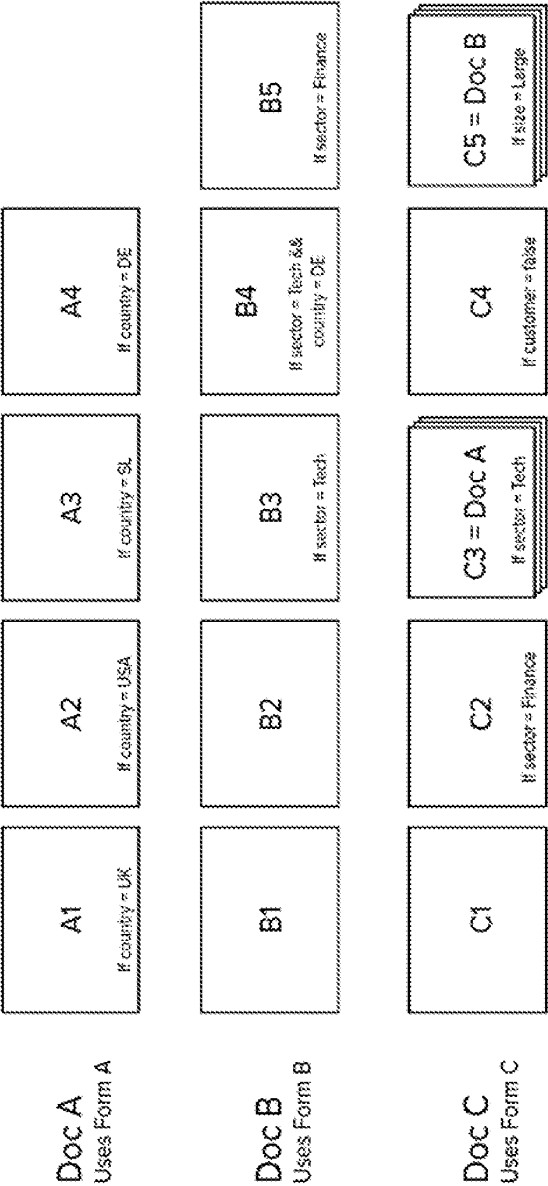


FIG. 4

500

Form C

Sector	Tech	>
Is customer?	Yes	>
Size	Large	>
Country	UK	>

FIG. 5

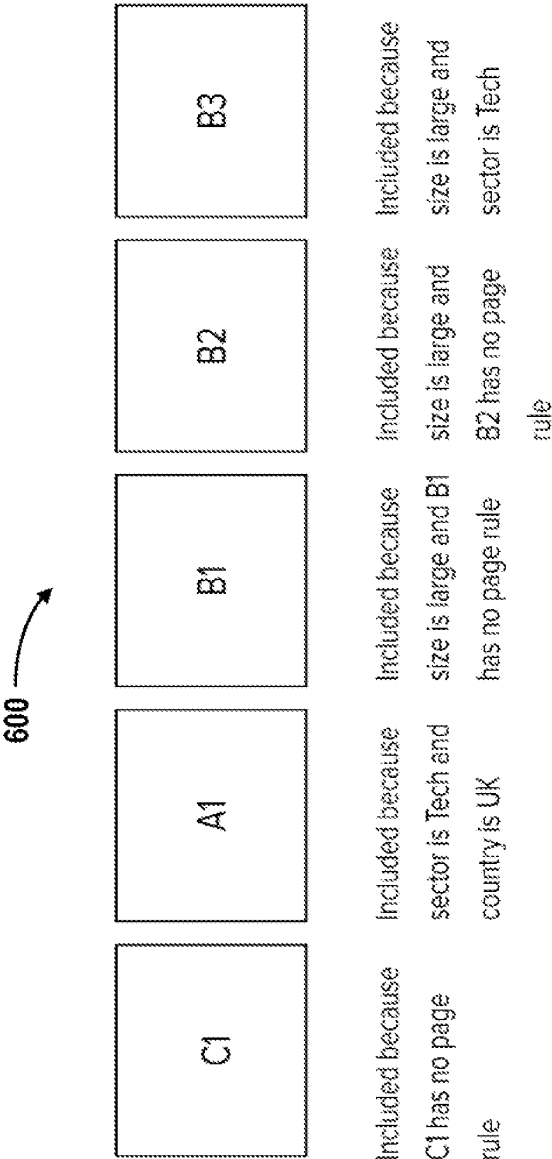


FIG. 6

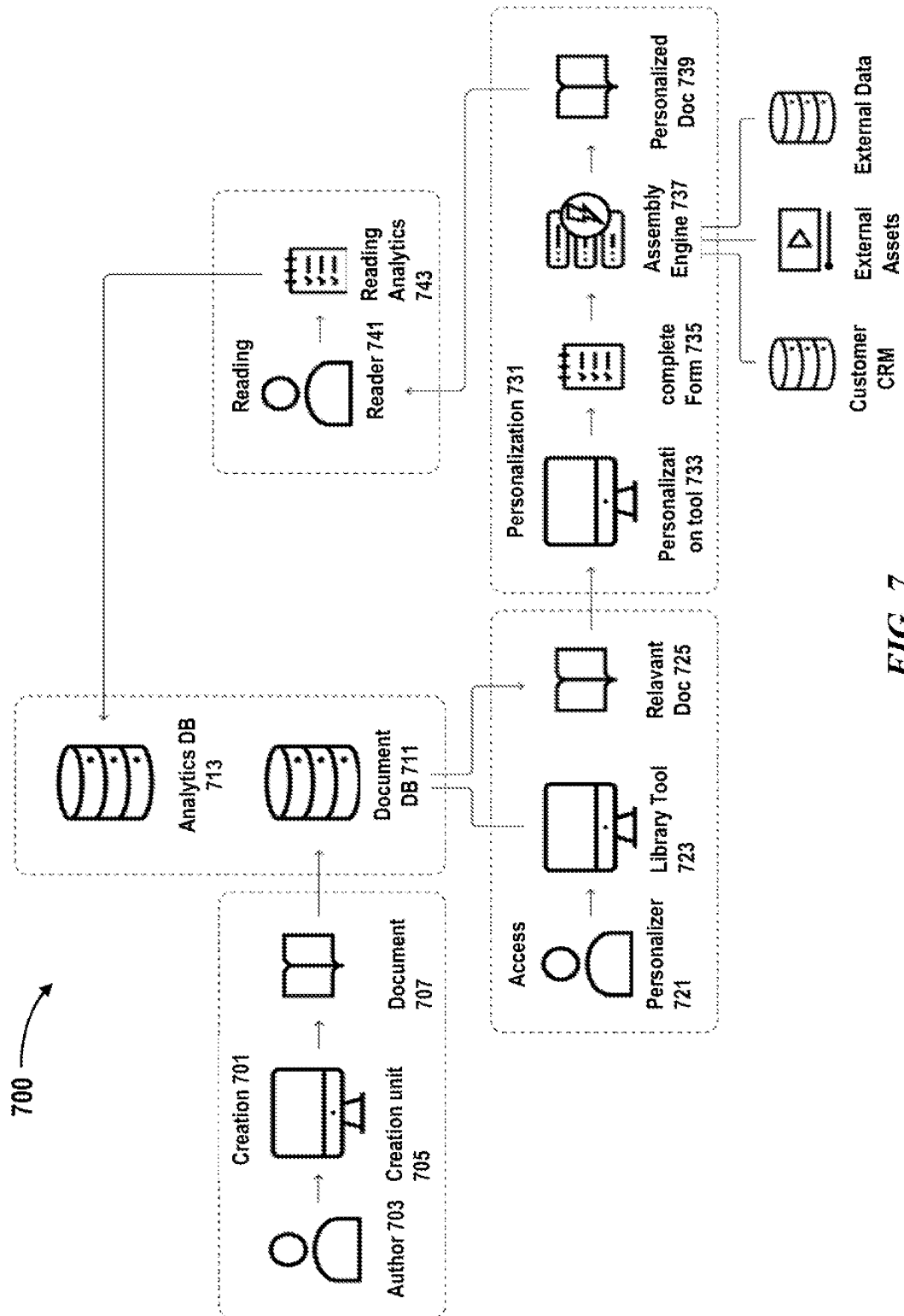


FIG. 7

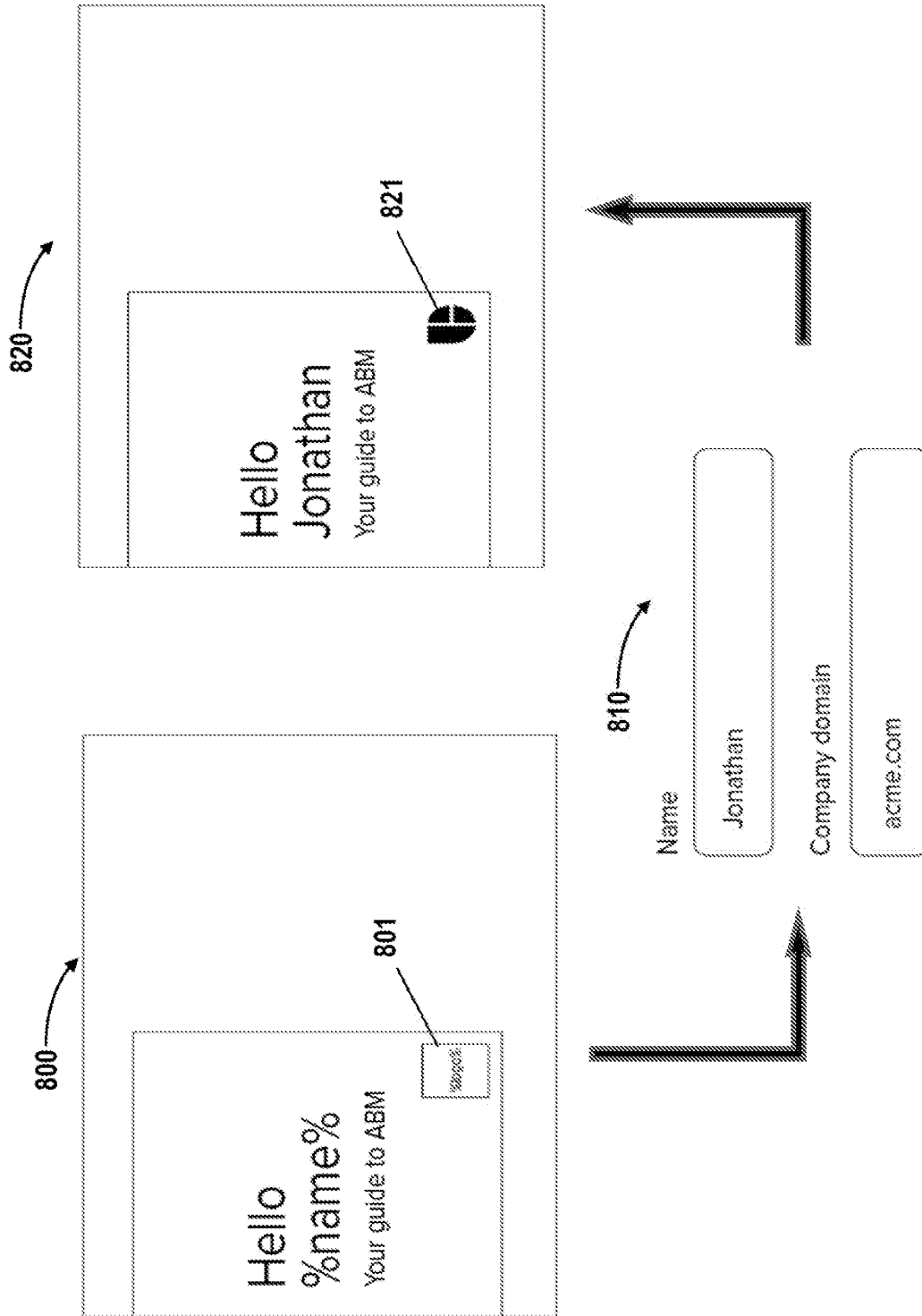


FIG. 8

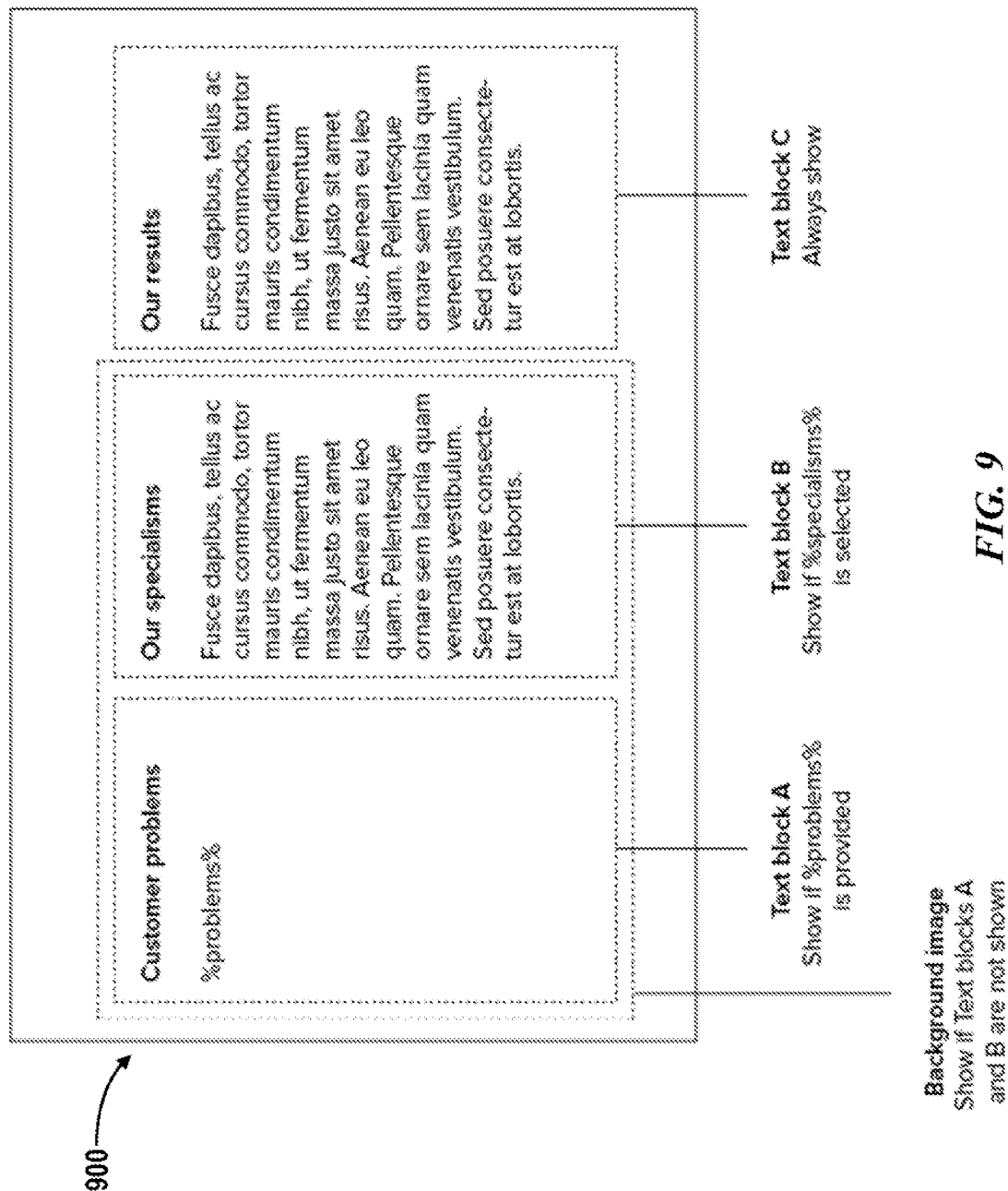


FIG. 9

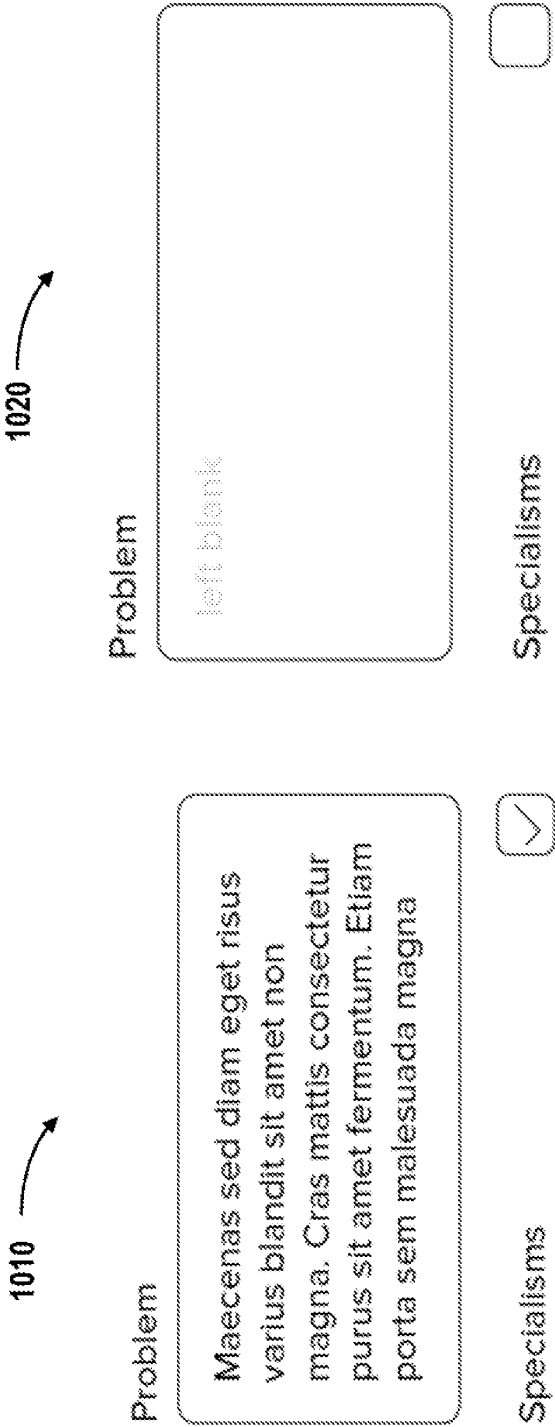


FIG. 10

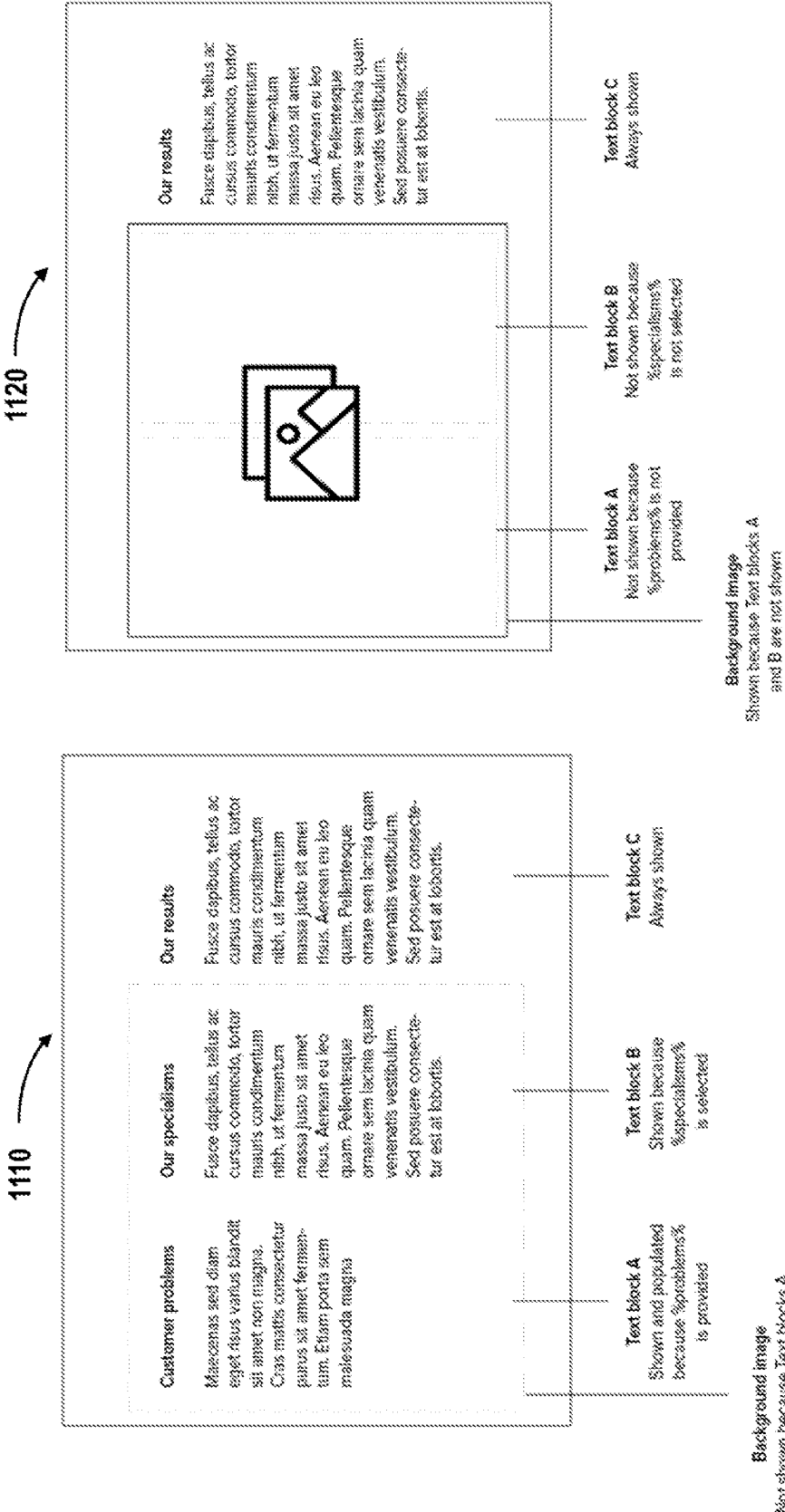


FIG. 11

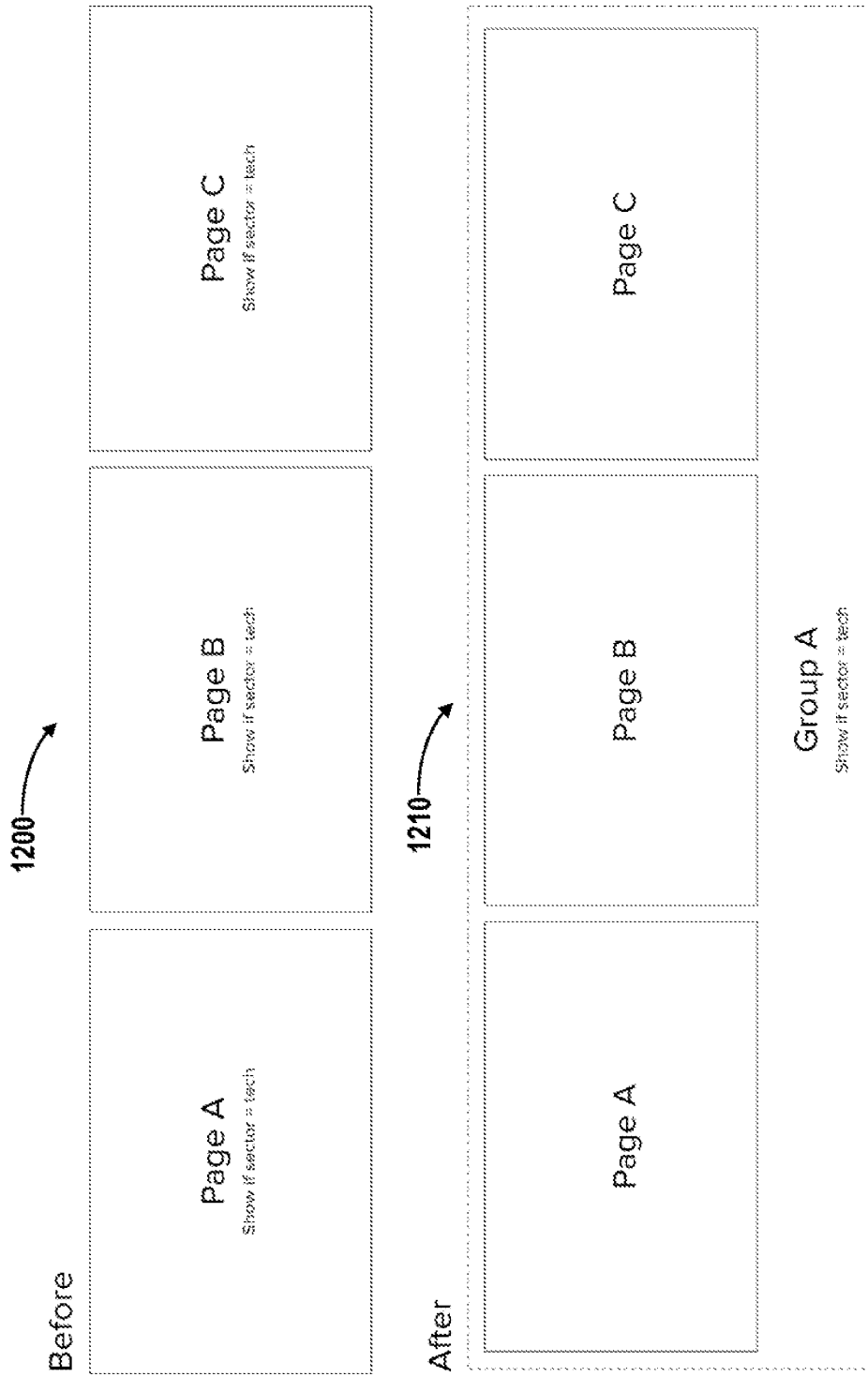


FIG. 12

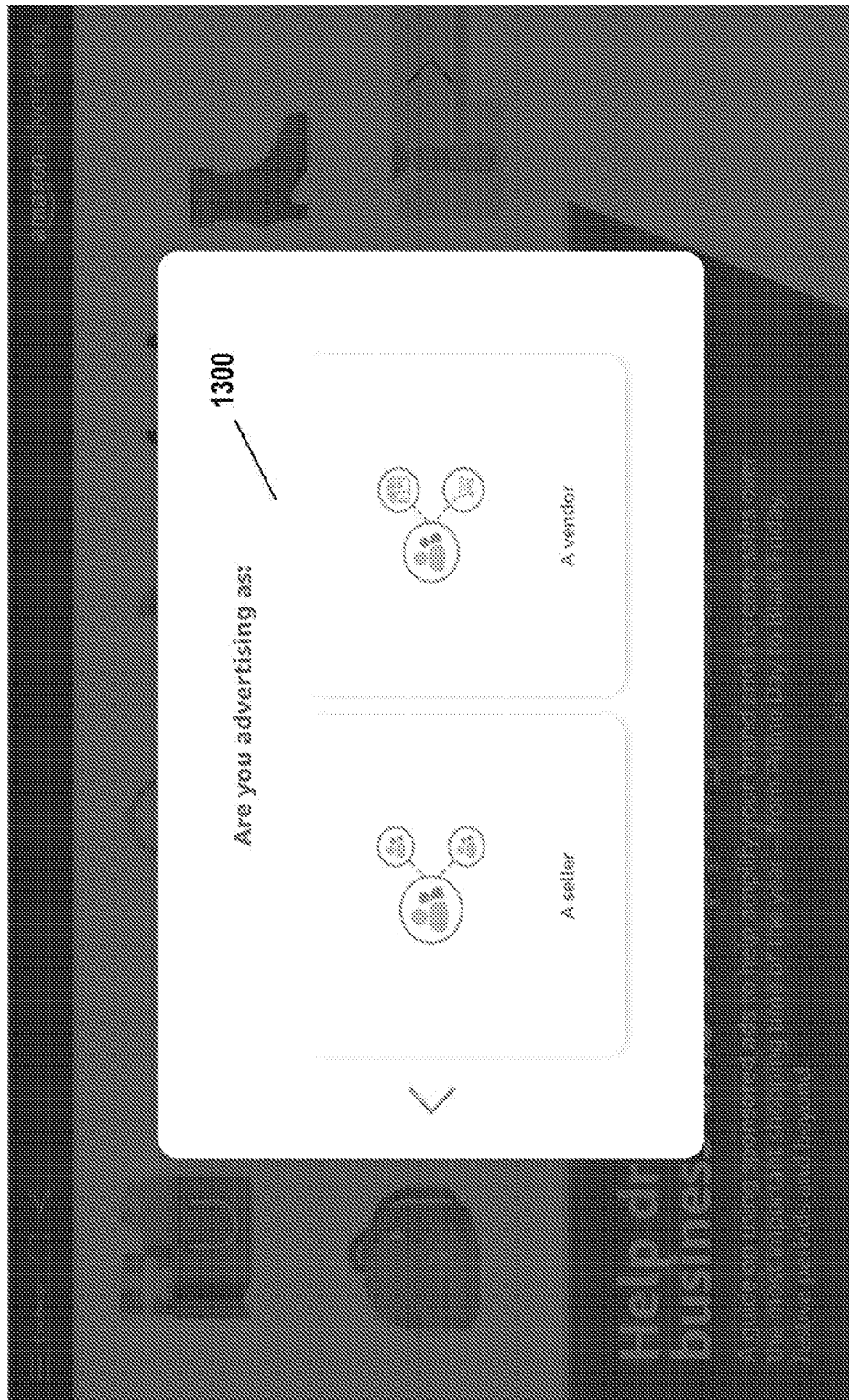


FIG. 13

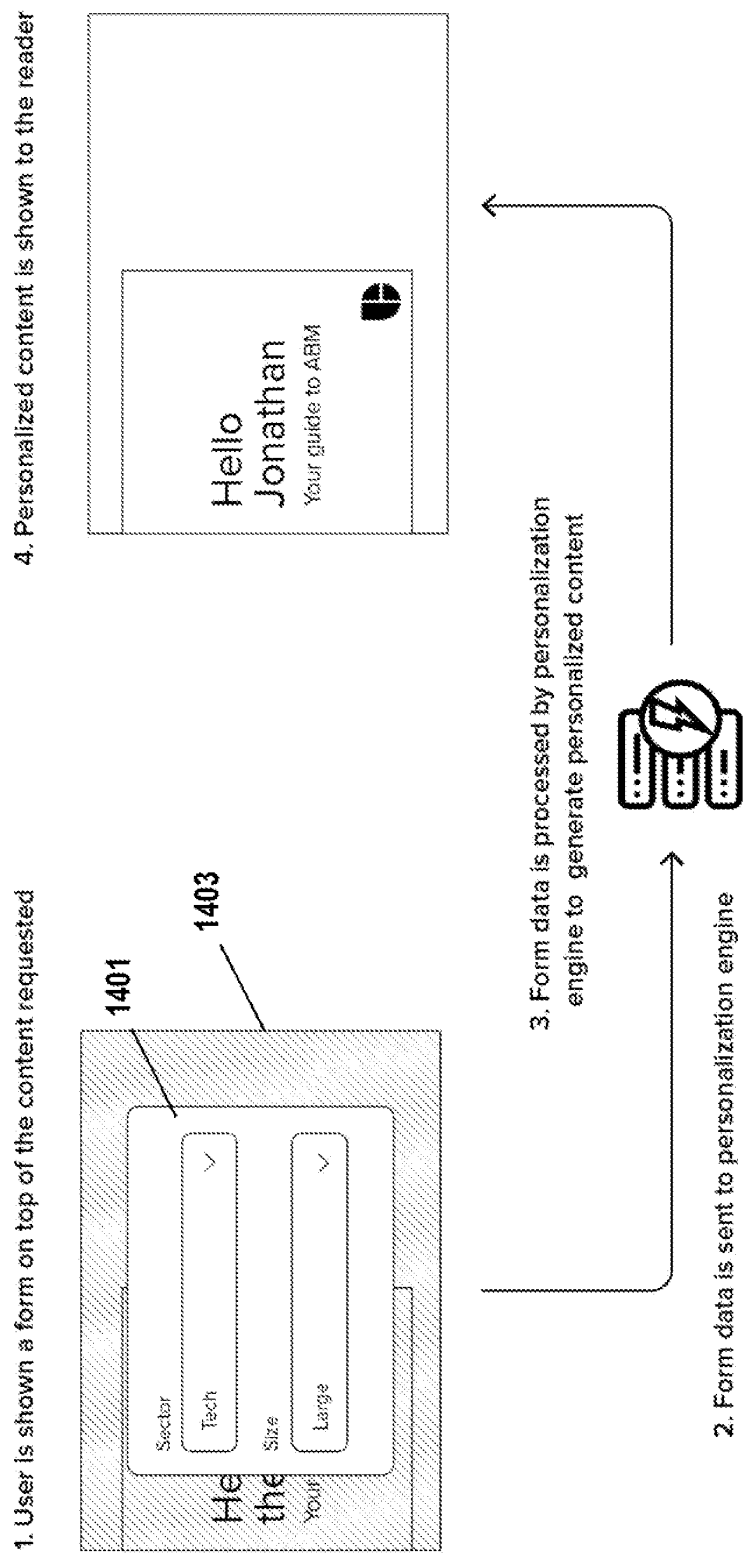


FIG. 14



FIG. 15

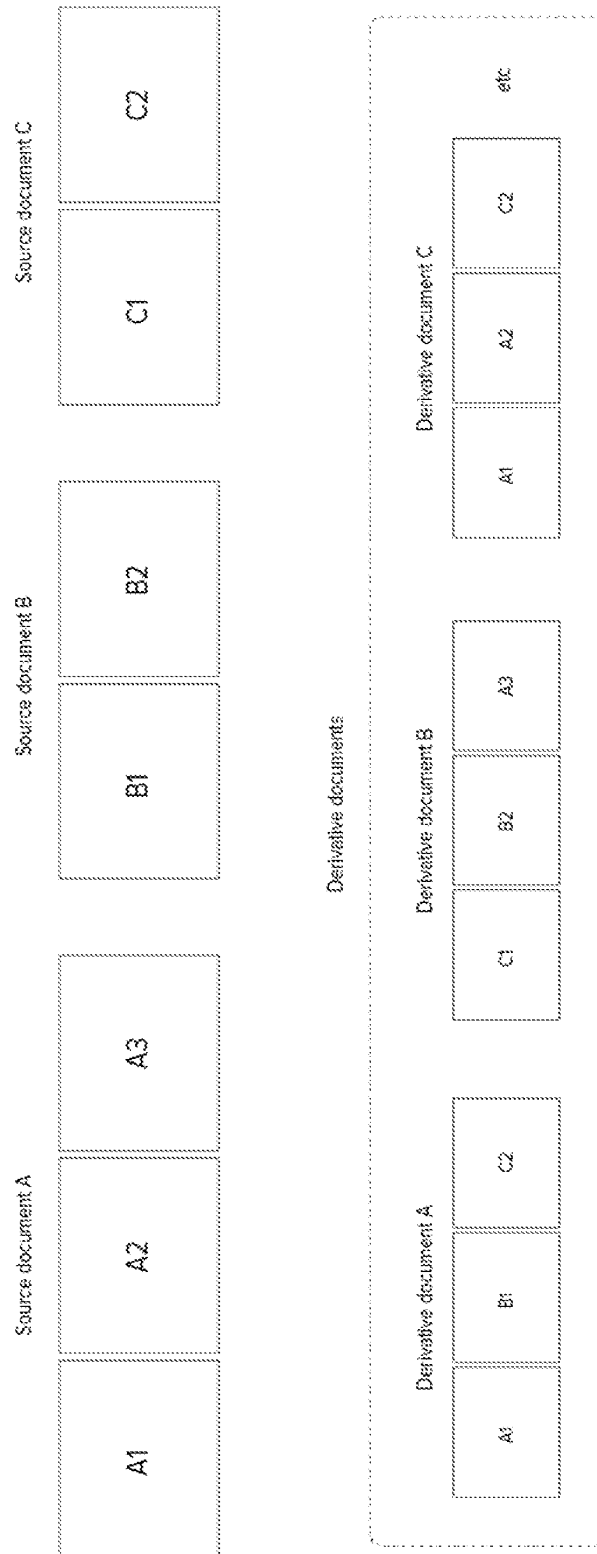


FIG. 16

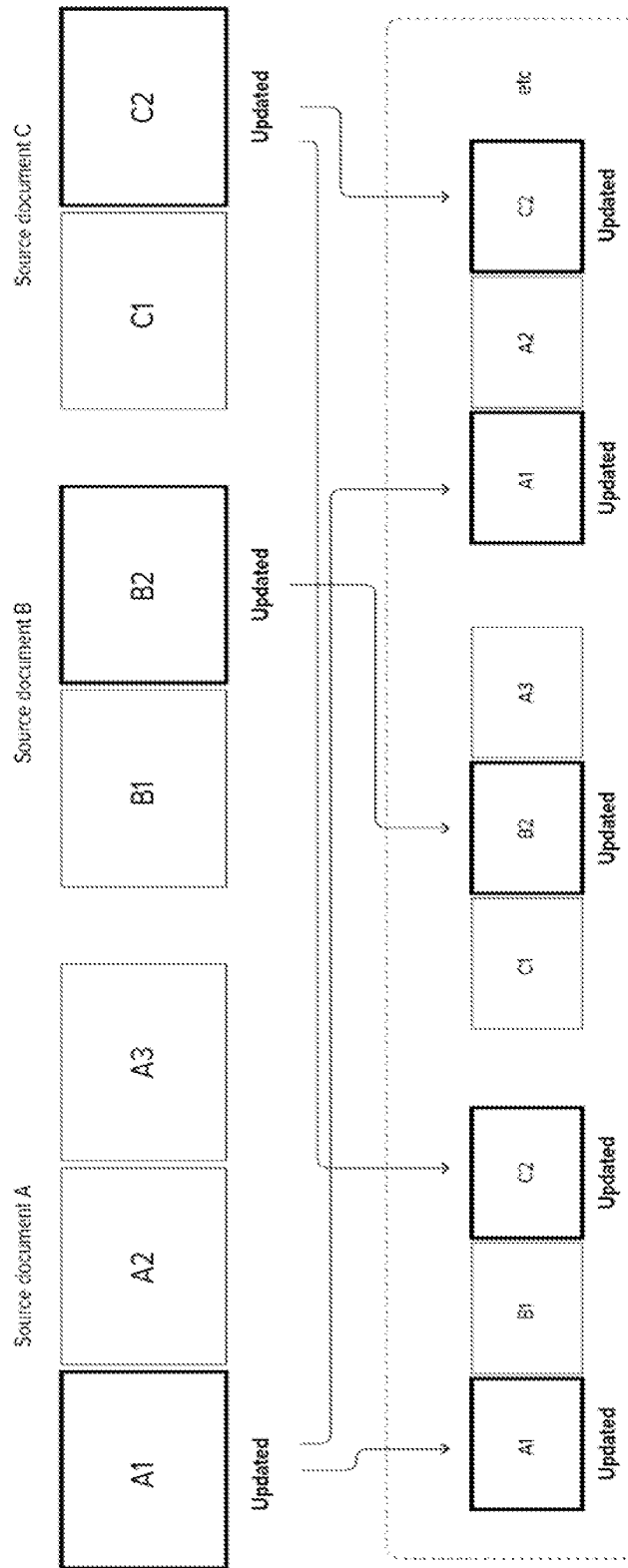


FIG. 17

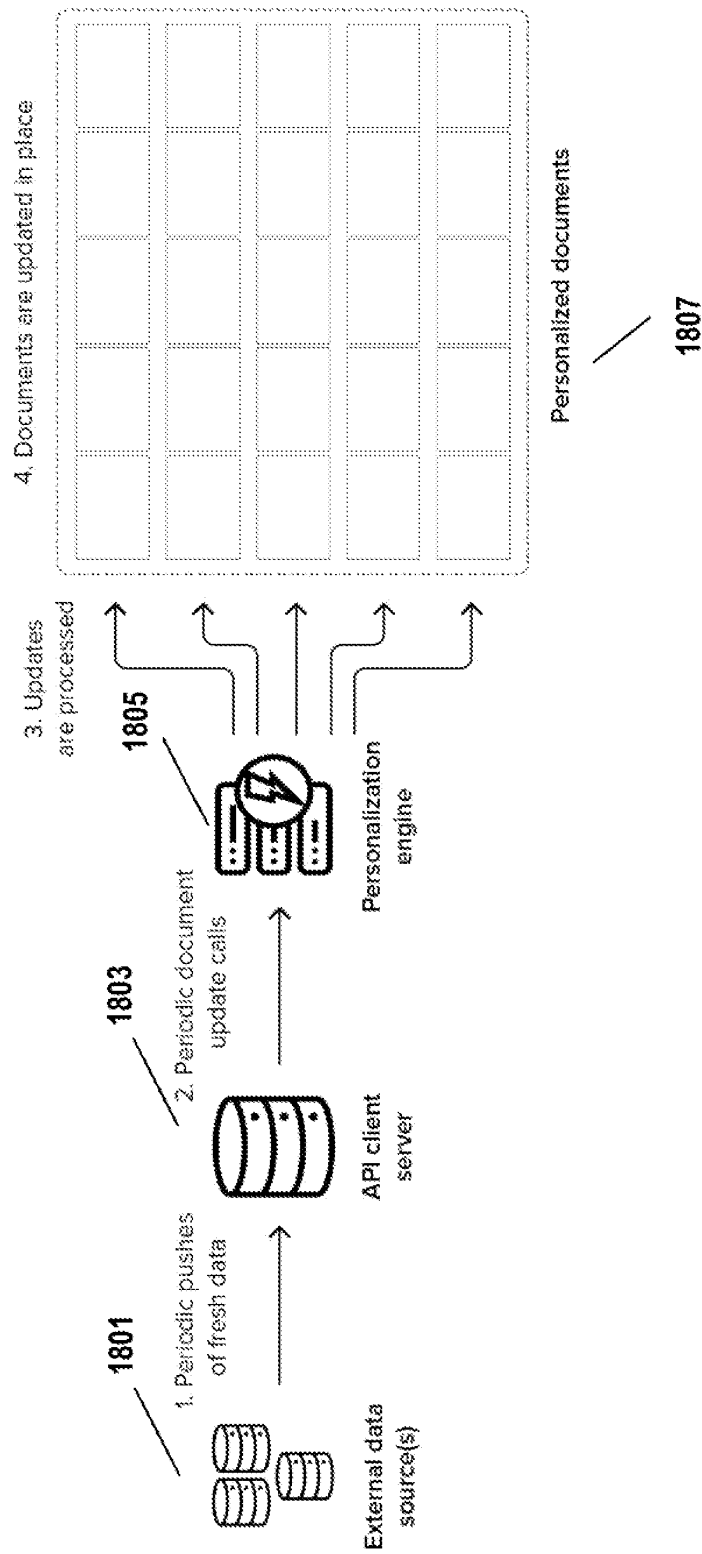


FIG. 18

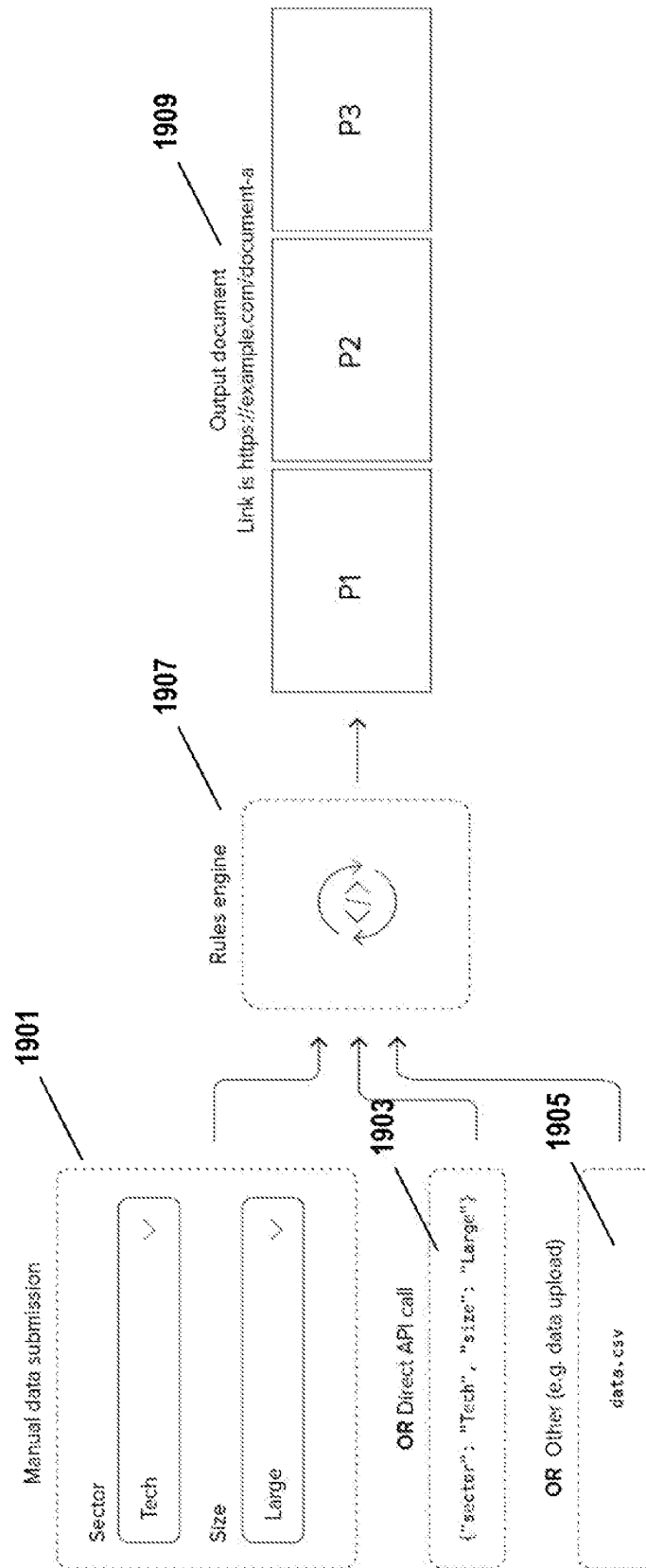


FIG. 19

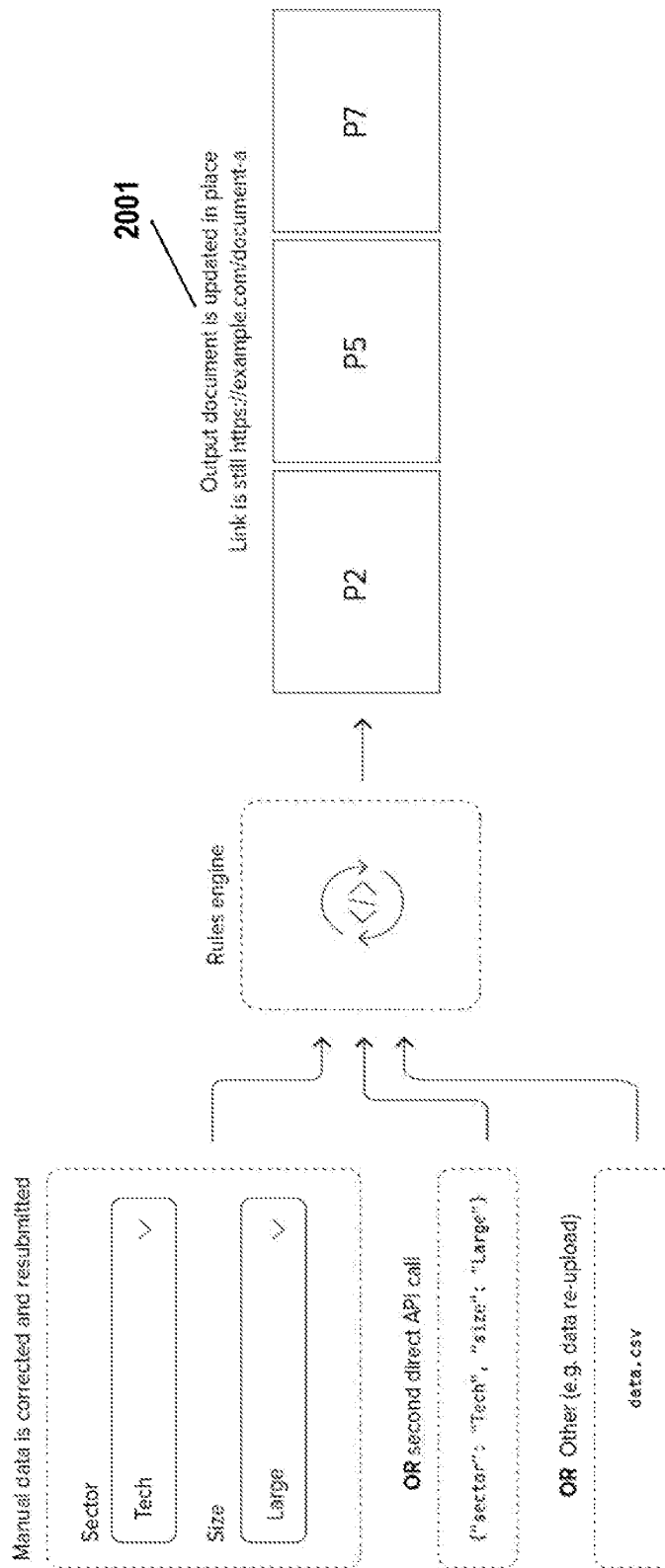


FIG. 20

PATENT APPLICATION

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

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METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a continuation application of U.S. Application No. 17/830,566, filed June 2, 2022, which is a continuation application of U.S. Application No. 17/347,899, filed on June 15, 2021, now U.S. Patent No. 11,379,651, which claims the priority and benefit of U.S. Provisional Application No. 63/048,512, filed on July 6, 2020, each of which is incorporated herein by reference in its entirety.

BACKGROUND

[0002] Enterprises use documents to communicate with internal and external customers as well as to regulate and control process flows. Users can interact with documents through the course of business. For example, customer service representatives (CSRs) interact with correspondence systems to create customized letters, insurance agents customize group policies, employees fill out forms for HR processes, and sales people create tailored proposals. Current content creation systems and methods may face the challenge of providing highly personalized content specific to a reader or a process without going through a time-consuming creation process. Therefore, a need exists for an interactive content creation system or method with improved personalization capability and efficiency.

SUMMARY

[0003] The present disclosure provides methods and systems for creating interactive content with improved efficiency and personalization capability. In particular, methods and systems of the present disclosure may provide automation and modular features allowing for creation of personalized content (e.g., report, brochures, digital magazines, product guides, sales playbooks, sales proposals, whitepapers, newsletters, company handbooks, annual reports, etc.) with reduced time and improved personalization. In some cases, a document assembly can be generated on the fly in response to a personalization request by pulling modular content items from different documents such that only relevant content is presented to a customer/reader. Additionally, the presentation format or style of rendering a given content can be independently modified at runtime thereby allowing for improved flexibility for providing a personalized content. Moreover, the provided system provides analytics features for tracking reader's interaction with the content and extracting insight through an integrated platform in a convenient manner. Such insight can be utilized for customizing future documents or contents.

[0004] In an aspect of the present disclosure, a system is provided for automatically assembling an interactive document. The system comprises: a server in communication with a plurality of user devices over a network, wherein the server comprises: a memory for storing a set of software instructions, and one or more processors configured to execute the set of software instructions to: (a) embed a first set of rules into a first modular item of a first document; (b) receive one or more parameters for personalizing the first document; (c) pull a second modular item from a second document based at least in part on a value of the one or more parameters and the first set of rules; and (e) assemble the second modular item with the first document to generate a derivative document.

[0005] In some embodiments, the first modular item is stored in a structured data that defines the first set of rules. In some embodiments, the first set of rules define a link between the first modular item and another document or a rule for assembling the first modular item into a derivative document.

[0006] In some embodiments, the value of the one or more parameters is specified by a user via a user interface. In some cases, the user interface displays one or more personalization fields that are automatically generated based on the first set of rules. For instances, at least one of the one or more personalization fields is generated based on a second set of rules associated with the second modular item. In some instances, the one or more processors are further configured to: upon receiving an input in a given personalization field, display at least a portion of the content from the first document that is related to the given personalization field.

[0007] In some embodiments, the value of the one or more parameters is specified by a user in a text file. In some embodiments, the first set of rules includes a mapping relationship that maps the first modular item to a style for rendering the first modular item. In some cases, the derivative document is displayed to a reader using the mapped style. For example, the server is configured to collect data about the reader's interaction with the derivative document to extract insight data.

[0008] In some embodiments, the one or more processors are configured to further receive an instruction for personalizing the first modular item or the second modular item. In some embodiments, the one or more processors are configured to further store the one or more parameters and a reference to the first document for updating the derivative document. In some cases, the one or more processors are configured to further convert the derivative document into a master document by storing the one or more parameters as a set of rules associated with the derivative document.

[0009] In another aspect, a system is provided for personalizing an interactive document. The system comprises: (a) a first component configured to create one or more modular items of a document, wherein at least one modular item is associated with a set of rules defining a link between the at least one modular item and another document or a rule for assembling the at least one modular item into a derivative document; and (b) a second component configured to: (i) receive an instruction for personalizing a given document; (ii) assemble a plurality of modular items to generate a derivative document of the given document, wherein the plurality of modular items are pulled from the given document and at least another document based at least in part on a set of rules associated with at least one modular item of the given document; and (iii) render the derivative document using a style associated with the given document.

[0010] In some embodiments, the first component comprises a first user interface configured to receive a user input to generate the first set of rules. In some cases, the first user interface displays a plurality of fields for defining the first set of rules. In some embodiments, the first component comprises a second user interface configured to receive user input to customize the one or more modular items. In some embodiments, at least one of the one or more modular items is automatically updated based on an input information obtained via an application programming interface (API).

[0011] In some embodiments, the set of rules associated with the at least one modular item of the given document is pre-defined and embedded with the at least one item. In some cases, the at least one item is stored in a structured data that defines the set of rules. In some embodiments, the set of rules associated with the at least one item of the given document includes a mapping relationship that maps the at least one item to the style. In some embodiments, the second component comprises a user interface for receiving the instruction for personalizing the given document. In some cases, the user interface displays one or more personalization fields based on the set of rules associated with the at least one item of the given document. For example, the user instruction comprises a value provided to the one or more personalization fields.

[0012] Additional aspects and advantages of the present disclosure will become readily apparent to those skilled in this art from the following detailed description, wherein only illustrative embodiments of the present disclosure are shown and described. As will be realized, the present disclosure is capable of other and different embodiments, and its several details are capable of modifications in various obvious respects, all without departing from the disclosure. Accordingly, the drawings and description are to be regarded as illustrative in nature, and not as restrictive.

INCORPORATION BY REFERENCE

[0013] All publications, patents, and patent applications mentioned in this specification are herein incorporated by reference to the same extent as if each individual publication, patent, or patent application was specifically and individually indicated to be incorporated by reference.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] The novel features of the invention are set forth with particularity in the appended claims. A better understanding of the features and advantages of the present invention will be obtained by reference to the following detailed description that sets forth illustrative embodiments, in which the principles of the invention are utilized, and the accompanying drawings (also “figure” and “FIG.” herein) of which:

[0015] FIG. 1 schematically shows a network or content creation and management platform in which the method and system for personalizing a content can be implemented;

[0016] FIG. 2 schematically shows a diagram of a content creation and management system, in accordance with various embodiment of the present disclosure;

[0017] FIG. 3 shows an example of a user interface (e.g., creator interface) for defining a set of assembly rules for a page of a document;

[0018] FIG. 4 illustrates examples of multiple documents that each document including at least one document page embedded with one or more assembly rules;

[0019] FIG. 5 shows an example of a user interface for personalizing a selected document, in accordance with some embodiments of the present disclosure;

[0020] FIG. 6 shows an exemplary document assembly;

[0021] FIG. 7 illustrates an example of a process of generating personalized, interactive content, in accordance with some embodiments described herein;

[0022] FIG. 8 shows an example of customizing a page via API.

[0023] FIGs. 9-11 shows an example of customizing a content item.

[0024] FIG. 12 shows an example of managing assembly rules for a group of content items.

[0025] FIG. 13 and FIG. 14 show an example of a user personalizing the document as a reader of the content.

[0026] FIG. 15 shows an example of a user interface displaying live content when a user completes a personalization form.

[0027] FIG. 16 and FIG. 17 show an example of a source documents and the effect on the derivative documents.

[0028] FIGs. 18-20 shows an example of updating a personalized document on the fly based on information from external data sources.

DETAILED DESCRIPTION

[0029] While various embodiments of the invention have been shown and described herein, it will be obvious to those skilled in the art that such embodiments are provided by way of example only. Numerous variations, changes, and substitutions may occur to those skilled in the art without departing from the invention. It should be understood that various alternatives to the embodiments of the invention described herein may be employed.

[0030] The present disclosure provides methods and systems for creating interactive content with improved efficiency and personalization capability. In particular, methods and systems of the present disclosure may provide automation and modular features allowing for creation of personalized content (e.g., report, brochures, digital magazines, product guides, sales playbooks, sales proposals, whitepapers, newsletters, company handbooks, annual reports, etc.) with reduced time and improved personalization.

[0031] Unlike conventional document processing systems where content is stored and managed as a document. The provided system may break a document into one or more modular content items each is associated with a set of assembly rules. In some cases, a document assembly can be generated on the fly in response to a personalization request by pulling modular content items from different documents such that only relevant content is presented to a customer/reader. Additionally, the presentation format or style of rendering a given content can be independently modified at runtime thereby allowing for improved flexibility for providing a personalized content. Moreover, the provided system provides analytics features for tracking reader's interaction with the content and extracting insight through an integrated platform in a convenient manner. Such insight can be utilized for customizing future documents or contents.

[0032] The interactive content may include a variety types of electronic documents such as report, brochures, digital magazines, case studies, product guides, sales playbooks, sales proposals, whitepapers, newsletters, company handbooks, annual reports, presentations, and various others that may be utilized in various other fields. The interactive content may be provided for a wide range of use cases. For instance, the interactive content may be a digital magazine including editorial layouts with video and reader polling to collect analytics about which topics that a reader may be interested about; a research report with interactive charts, video, and imagery that can identify which data sets and storylines are of interest to the audience; a product guide with dynamic guides on a product or service that can collect reader engagement data to deliver insights to sales; a sales playbook with messaging, product videos, templates and guides accessible from a single uniform resource location (URL) that can keep track of individuals engagement with the resources and various others.

[0033] As utilized herein, the term “document” and “electronic document” may encompass one or more types of content/documents as described above, one or more content items such as content pages (e.g., web pages), text pages, presentation slides, search results, emails, applications, IM messages, audio content or files, video content or files, online media files, other files, other data or applications that may reside on one or several (e.g., a network) of computer systems, or other definable concepts or content. A content item may be a page, a slide or elements within a page or slide (e.g., video, charts, etc.). In some cases, a document or content may include a plurality of pages or a plurality of modular content items. A page may include visible components, such as text, images, hyperlinks, a background, and/or invisible components, such as meta tags, ruleset for assembly or formatting instructions. The term “page” may encompass any types of computer files that are not necessarily encoded for viewing using a browser, e.g., text files, bit-maps, audio files, and so forth. In some cases, a document created by the provided system can be accessible from a uniform resource location (URL). For instance, a document may be a hypertext file or document that is encoded using a language such as Hypertext Markup Language (HTML) for viewing on a client computer using a browser application. Alternatively or in addition to, a document can be delivered or downloaded to a user device and can be interacted with offline using a desktop application. It should be appreciated that the same system and method may be applied to other forms of documents or electronic documents.

[0034] A user of the provided content creation and management system may be an individual, an entity (e.g., business, company, organization, *etc.*), a group of individuals that may be authors or content creators who create the core materials, new documents or new components of the interactive

content that can be further personalized. The users may include individuals such as personalizers (e.g., marketing managers, content managers, sales people, recruiters, marketers, *etc.*) who are customizing and personalizing the documents created by the authors in a pre-defined way. A user of the provided system or platform may also include individuals (e.g., analyzers) who may seek for and analyze the content performance analytics collected by the interactive content that is tailored to the customer. A user of the provided content creation and management system may also include administrators who manage the various workflow (e.g., content creation, content personalization) and various other functions of the platform.

[0035] The interactive content creation and personalization system may provide a dynamic document assembly feature permitting various content items (e.g., pages, slides, charts, texts, diagrams, videos, *etc.*) to be pulled from different documents are dynamically assembled as a new document. For example, three pages may be pulled from document A, five pages may be pulled from document B and two pages may be pulled from document C. Such pages are then assembled on the fly into a new resulting document D. Creating an interactive document in such a modular manner may allow for a highly customized/personalized document provided to a reader.

[0036] The modular content items may be automatically selected from one or more documents to be assembled into a personalized document assembly based on pre-determined assembly rules. In some cases, the assembly rules may define the conditions to meet in order to include a content item into a derivative/output document. The assembly rules may be embedded into the modular content items and may define the parameters/conditions to meet in order to display/select the associated content item or to assemble the associated content with other qualifying content. The personalized document assembly may be generated with minimal user input that specifies the personalization request parameters. For example, a user (e.g., marketing managers, content managers, sales people, recruiters, marketers, *etc.*) may not be required to possess content creation expertise and only the information about the personalization request (e.g., document size, geolocation, customer sector, *etc.*) or desired use application of the document may be provided by the user. In some cases, the personalized document assembly may also be referred to as derivative document which are utilized interchangeably throughout the specification. In some cases, the document that is used to generate the personalized document may be a master document or source document. Upon creation of the derivative document, a link or connection between the source document and the derivative document may be created. Details about the dynamic document assembly method and systems are described later herein.

[0037] In some cases, the content creation and management system may also provide a reader analytics capability that can be utilized to track, analyze and extract insight about how a reader interact with the personalized content. For example, the interactive document may be rendered with tracking features (e.g., web analytics tracker), or delivered with insight metrics, analytics, or interfaces capable of extracting intelligence and insight for a variety of applications. For instance, data may be collected indicative of user interaction with the document. In some cases, the interaction data may be analyzed to extract metrics and usage analytics measuring the degree to which slides/pages were provided or made available to and viewed by customers (e.g., the number of times a content item was pitched to customers), to extract performance metrics measuring the degree to which readers have engaged with (e.g., read, edited, shared, saved) the interactive content (e.g., the dwell time on an item, such as the amount of time that the content was displayed in a content viewer (e.g., web browser or other application), to extract impact analytics indicative of the content's impact on business metrics (e.g., average revenue per pitch of a content item that may be obtained from other systems, such as customer relationship management (CRM) systems, marketing automation systems, *etc.*), and various other analytics. Such analytics may be used to personalize a future interactive content/document.

[0038] In some cases, the provided systems may employ artificial intelligence techniques to analyze the reader interaction data to extract the intelligence and insight, or optimize assembly rules for assembling personalized/customized content or document. In some instances, the assembly rules may be initially defined by a user (e.g., author, content creator) and automatically updated or improved over time using a trained model based on newly collected analytics data. Alternatively or additionally, a trained model may guide and assist a user during the process of creating the assembly rules for a given content item.

[0039] Artificial intelligence, including machine learning algorithms, may be used to train a predictive model for extracting the usage analytics, performance analytics, impact analytics as described above, and/or assisting assembly rules creation and management, and various other functionalities as described above. A machine learning algorithm may be a neural network, for example. Examples of neural networks that may be used with embodiments herein may include a deep neural network, convolutional neural network (CNN), and recurrent neural network (RNN). In some cases, a machine learning algorithm trained model may be pre-trained and implemented on the provided content creation and management system, and the pre-trained model may undergo continual re-training that may involve continual tuning of the predictive model or a component of

the predictive model (e.g., classifier) to adapt to changes in the implementation environment over time (e.g., changes in the customer/user data, insight and analytics data, model performance, third-party data, *etc.*).

[0040] The term “labeled data” or “labeled dataset,” as used herein, generally refers to a paired dataset used for training a model using supervised learning. The labeled data may be generated by expert or using insight extracted from customer/reader feedback data. Alternatively, methods provided herein may utilize an un-paired training approach allowing a machine learning method to train and apply on existing datasets that may be available with an existing system.

[0041] Reference throughout this specification to “some embodiments,” or “an embodiment,” means that a particular feature, structure, or characteristic described in connection with the embodiment is included in at least one embodiment. Thus, the appearances of the phrase “in some embodiment,” or “in an embodiment,” in various places throughout this specification are not necessarily all referring to the same embodiment. Furthermore, the particular features, structures, or characteristics may be combined in any suitable manner in one or more embodiments.

[0042] As utilized herein, terms “component,” “system,” “interface,” “unit” and the like are intended to refer to a computer-related entity, hardware, software (e.g., in execution), and/or firmware. For example, a component can be a processor, a process running on a processor, an object, an executable, a program, a storage device, and/or a computer. By way of illustration, an application running on a server and the server can be a component. One or more components can reside within a process, and a component can be localized on one computer and/or distributed between two or more computers.

[0043] Further, these components can execute from various computer readable media having various data structures stored thereon. The components can communicate via local and/or remote processes such as in accordance with a signal having one or more data packets (e.g., data from one component interacting with another component in a local system, distributed system, and/or across a network, e.g., the Internet, a local area network, a wide area network, etc. with other systems via the signal).

[0044] As another example, a component can be an apparatus with specific functionality provided by mechanical parts operated by electric or electronic circuitry; the electric or electronic circuitry can be operated by a software application or a firmware application executed by one or more processors; the one or more processors can be internal or external to the apparatus and can execute at least a part of the software or firmware application. As yet another example, a component can be an

apparatus that provides specific functionality through electronic components without mechanical parts; the electronic components can include one or more processors therein to execute software and/or firmware that confer(s), at least in part, the functionality of the electronic components. In some cases, a component can emulate an electronic component via a virtual machine, e.g., within a cloud computing system.

[0045] Moreover, the word “exemplary” is used herein to mean serving as an example, instance, or illustration. Any aspect or design described herein as “exemplary” is not necessarily to be construed as preferred or advantageous over other aspects or designs. Rather, use of the word exemplary is intended to present concepts in a concrete fashion. As used in this application, the term “or” is intended to mean an inclusive “or” rather than an exclusive “or.” That is, unless specified otherwise, or clear from context, “X employs A or B” is intended to mean any of the natural inclusive permutations. That is, if X employs A; X employs B; or X employs both A and B, then “X employs A or B” is satisfied under any of the foregoing instances. In addition, the articles “a” and “an” as used in this application and the appended claims should generally be construed to mean “one or more” unless specified otherwise or clear from context to be directed to a singular form.

[0046] **FIG. 1** schematically shows a network or content creation and management platform 100 in which the method and system for providing a personalized content can be implemented. A platform 100 may include one or more user devices 101-1, 101-2, 101-3, a server 120, a content creation and management system 121, one or more third-party systems 130, and a database 111, 123. Each of the components 101-1, 101-2, 101-3, 111, 123, 120, 130 may be operatively connected to one another via a network 110 or any type of communication link that allows transmission of data from one component to another.

[0047] The content creation and management system 121 may be configured to permit users (e.g., creators, personalizers, analyzers, administrators, *etc.*) to create content and content items, generate a set of rules associated with a content item, customize a document and manage various aspects of the platform. The content creation and management system 121 may include a plurality of functional components such as a content creation unit, a document assembly engine, a data management unit, interaction tracking features, analytics features, brand management features and the like. Details about the various functional components are described later herein.

[0048] In some cases, one or more personalization fields may be provided to a user 103-1 (e.g., personalizer) via a graphical user interface (GUI) on a user device 101-1, 101-3. For example, a user may select a parameter from a plurality of options for a personalization field to customize a

document that is to be delivered to a specific reader/customer. Details about the personalizer interface are described later herein. In some cases, a graphical user interface (GUI) may be rendered on a user device 101-2 for a user (e.g., content creator, author) to define one or more rules associated with a content item (e.g., page, slide). The one or more rules may include assembly rules that define when a content item should be included for display in a derivative document and/or rules that define how the content item is rendered/displayed (e.g., mapping to a brand style).

[0049] In some cases, the content creation and management system 121 may be configured to train one or more predictive models (e.g., natural language processing) for analyzing the reader interaction data transmitted from a customer/reader device. In some cases, the extracted insight and intelligence may be used for improving future documents personalization. For instance, a predictive model for assisting the assembly rules generation may be updated based on the extracted insight and intelligence.

[0050] The content creation and management system 121 may be configured to perform one or more operations consistent with those disclosed with respect to FIGs. 2-7. The content creation and management system 121 may be implemented anywhere within the platform, and/or outside of the platform 100. In some embodiments, the content creation and management system 121 may be implemented on the server 120. In other embodiments, a portion of the content creation and management system 121 may be implemented on the user device. Additionally, a portion of the content creation and management system 121 may be implemented on the third-party system. Alternatively or in addition to, a portion of the content creation and management system 121 may be implemented in one or more databases 111, 123. The content creation and management system 121 may be implemented using software, hardware, or a combination of software and hardware in one or more of the above-mentioned components within the platform. Details about the content creation and management system 121 are described later herein.

[0051] In some embodiments, a user (e.g., agent) 103-1, 103-2 may be associated with one or more user devices 101-1, 101-2, 101-3. A user may be an individual, an entity (e.g., business, company, organization, *etc.*), a group of individuals that may be authors or content creators who create the core materials, new documents or new components of the interactive content that can be further personalized. A user may be individuals such as personalizers (e.g., marketing managers, content managers, sales people, recruiters, marketers, *etc.*) who are customizing and personalizing the documents created by the authors in a pre-defined way. A user of the provided system or platform may also include individuals (e.g., analyzers) who may seek for and analyze the content performance

analytics collected by the interactive content that is tailored to the customer, and administrators who manage the various workflow (e.g., content creation, content personalization) and various functions of the platform.

[0052] User device 101-1, 101-2, 101-3 may be a computing device configured to perform one or more operations consistent with the disclosed embodiments. Examples of user devices may include, but are not limited to, mobile devices, smartphones/cellphones, wearable device (e.g., smartwatches), tablets, personal digital assistants (PDAs), laptop or notebook computers, desktop computers, media content players, television sets, video gaming station/system, virtual reality systems, augmented reality systems, microphones, or any electronic device capable of analyzing, receiving (e.g., receiving user input in one or more fields in a form, receiving definition of rules associated with a page, *etc.*), providing or displaying certain types of data (e.g., system generated personalization parameter options, original document, derivative document, *etc.*) to a user. The user device may be a handheld object. The user device may be portable. The user device may be carried by a human user. In some cases, the user device may be located remotely from a human user, and the user can control the user device using wireless and/or wired communications. The user device can be any electronic device with a display.

[0053] User device 101-1, 101-2, 101-3 may include one or more processors that are capable of executing non-transitory computer readable media that may provide instructions for one or more operations consistent with the disclosed embodiments. The user device may include one or more memory storage devices comprising non-transitory computer readable media including code, logic, or instructions for performing the one or more operations. The user device may include software applications provided by the content creation and management system 121 that allow the user device to communicate with and transfer data between server 120, the content creation and management system 121, and/or database 111.

[0054] The user device 101-1, 101-2, 101-3 may include a communication unit, which may permit the communications with one or more other components in the platform 100. In some instances, the communication unit may include a single communication module, or multiple communication modules. In some instances, the user device may be capable of interacting with one or more components in the platform 100 using a single communication link or multiple different types of communication links.

[0055] User device 101-1, 101-2, 101-3 may include a display. The display may be a screen. The display may or may not be a touchscreen. The display may be a light-emitting diode (LED) screen,

OLED screen, liquid crystal display (LCD) screen, plasma screen, or any other type of screen. The display may be configured to show a user interface (UI) or a graphical user interface (GUI) rendered through an application (e.g., via an application programming interface (API) executed on the user device). The GUI may display, for example, an auto-populated form for customizing a selected document, a user interface for editing and defining a set of rules for a content item and user interface for creating content or interactive elements of a document (e.g., editable fields, videos, customer feedback survey, *etc.*). The user device may also be configured to display webpages and/or websites on the Internet. One or more of the webpages/websites may be hosted by server 120 and/or rendered by the content creation and management system 121.

[0056] In some cases, users may utilize the user devices to interact with the content creation and management system 121 by way of one or more software applications (i.e., client software) running on and/or accessed by the user devices, wherein the user devices and the content creation and management system 121 may form a client-server relationship. For example, the user devices may run dedicated mobile applications or software applications for viewing personalization form or options provided by the content creation and management system 121. The software applications for creating a document or content, customizing a document, and for rendering and delivering the content may be different applications. Alternatively or in addition, the client application may comprise different modes for a user to customize/edit a selected document, to view analytics associated with customers, to create original content, respectively. The client applications for a content creator (e.g., author) and a content personalizer may be different applications.

[0057] In some cases, the client software (i.e., software applications installed on the user devices 101-1, 101-2, 101-3) may be available either as downloadable software or mobile applications for various types of computer devices. Alternatively, the client software can be implemented in a combination of one or more programming languages and markup languages for execution by various web browsers. For example, the client software can be executed in web browsers that support JavaScript and HTML rendering, such as Chrome, Mozilla Firefox, Internet Explorer, Safari, and any other compatible web browsers. The various embodiments of client software applications may be compiled for various devices, across multiple platforms, and may be optimized for their respective native platforms.

[0058] In some cases, the provided platform may generate one or more graphical user interfaces (GUIs) for the content personalizer interface. The GUIs may be rendered on a display screen on a user device (e.g., a personalizer's device). A GUI is a type of interface that allows users to interact

with electronic devices through graphical icons and visual indicators such as secondary notation, as opposed to text-based interfaces, typed command labels or text navigation. The actions in a GUI are usually performed through direct manipulation of the graphical elements. In addition to computers, GUIs can be found in hand-held devices such as MP3 players, portable media players, gaming devices and smaller household, office and industry equipment. The GUIs may be provided in software, a software application, a mobile application, a web browser, or the like. The GUIs may be displayed on a user device (e.g., desktop computers, laptops or notebook computers, mobile devices (e.g., smart phones, cell phones, personal digital assistants (PDAs), and tablets), and wearable devices (e.g., smartwatches, *etc.*).

[0059] In some cases, third-party user interfaces or APIs may be integrated to the application and integrated in the front-end user interface (e.g., within the GUI). The third-party user interfaces may be hosted by a third-party server or entity 130. In some cases, APIs or third-party resources (e.g., customer CRM, customer analytics entity, social media, *etc.*) may be used to provide a content item to be included in a document, and/or reader analytics. In some cases, the platform 100 may utilize API requests to interact with various external assets (e.g., media source) to aggregate those content into the document.

[0060] User devices may be associated with one or more users. In some embodiments, a user may be associated with a unique user device. Alternatively, a user may be associated with a plurality of user devices. A user may be registered with the platform. In some cases, for a registered user, user profile data may be stored in a database (e.g., database 123) along with a user ID uniquely associated with the user. The user profile (e.g., personalizer profile) data may include, for example, user names, user ID, identity, business field, contact information, historical data, and various others as described elsewhere herein.

[0061] A server 120 may access and execute the content creation and management system 121 to perform one or more processes consistent with the disclosed embodiments. In certain configurations, the content creation and management system may be software stored in memory accessible by a server (e.g., in memory local to the server or remote memory accessible over a communication link, such as the network). Thus, in certain aspects, the content creation and management system(s) may be implemented as one or more computers, as software stored on a memory device accessible by the server, or a combination thereof. For example, one content creation and management system(s) may be a computer executing one or more algorithms for pre-training a predictive model, another content creation and management system may be software that, when executed by a server, processing the

reader analytics data using the trained predictive model. As another example, one content creation and management system(s) may be a computer executing one or more algorithms for managing brand styles for rendering a customized document using a mapped brand style whereas another content creation and management system(s) may be a computer executing one or more algorithms for creating and/or personalizing a document.

[0062] The various functions performed by the client terminal and/or the content creation and management system such as content creation, generating ruleset for a content item (e.g., page), generating a personalization form, assembling a document with modular content items upon a personalization request, training a predictive model, executing a trained model, implementing pre-determined ruleset for generating personalized document and the like may be implemented in software, hardware, firmware, embedded hardware, standalone hardware, application specific-hardware, or any combination of these. The content creation and management system, and techniques described herein may be realized in digital electronic circuitry, integrated circuitry, specially designed ASICs (application specific integrated circuits), computer hardware, firmware, software, and/or combinations thereof. These systems, devices, and techniques may include implementation in one or more computer programs that are executable and/or interpretable on a programmable system including at least one programmable processor, which may be special or general purpose, coupled to receive data and instructions from, and to transmit data and instructions to, a storage system, at least one input device, and at least one output device. These computer programs (also known as programs, software, software applications, or code) may include machine instructions for a programmable processor, and may be implemented in a high-level procedural and/or object-oriented programming language, and/or in assembly/machine language. As used herein, the terms “machine-readable medium” and “computer-readable medium” refer to any computer program product, apparatus, and/or device (such as magnetic discs, optical disks, memory, or Programmable Logic Devices (PLDs)) used to provide machine instructions and/or data to a programmable processor.

[0063] The third-party system 130 can be any entities that provides content services to be included into the personalized document via the platform 100. The third-party entity may provide services in a wide range such as customer CRM, external content assets (e.g., social media, online resource), public or private resources and various others. The third-party system 130 may be in communication with the content creation and management system via APIs such that the third-party content library,

service information, brand style availability information and the like can be communicated. In some cases, reader analytics can also be provided to the third-party system upon a request.

[0064] In some cases, the server 120 may also be configured to store, search, retrieve, and/or analyze data and information stored in one or more of the databases. The data and information may include reader interaction data collected from the user/customer device as well as brand style data, mapping relationship for brand style management, content or document data, ruleset associated with a content item, data about a predictive model (e.g., parameters, model architecture, training dataset, performance metrics, threshold, *etc.*), data generated by a predictive model such as personalization options or extracted insight, reader feedback survey, and the like. While FIG. 1 illustrates the server as a single server, in some embodiments, multiple devices may implement the functionality associated with a server.

[0065] A server may include a web server, an enterprise server, or any other type of computer server, and can be computer programmed to accept requests (e.g., HTTP, or other protocols that can initiate data transmission) from a computing device (e.g., user device and/or meeting capturing device) and to serve the computing device with requested data. In addition, a server can be a broadcasting facility, such as free-to-air, cable, satellite, and other broadcasting facility, for distributing data. A server may also be a server in a data network (e.g., a cloud computing network).

[0066] A server may include known computing components, such as one or more processors, one or more memory devices storing software instructions executed by the processor(s), and data. A server can have one or more processors and at least one memory for storing program instructions. The processor(s) can be a single or multiple microprocessors, field programmable gate arrays (FPGAs), or digital signal processors (DSPs) capable of executing particular sets of instructions. Computer-readable instructions can be stored on a tangible non-transitory computer-readable medium, such as a hard disk, a CD-ROM (compact disk-read only memory), and MO (magneto-optical), a DVD-ROM (digital versatile disk-read only memory), a DVD RAM (digital versatile disk-random access memory), or a semiconductor memory. Alternatively, the methods can be implemented in hardware components or combinations of hardware and software such as, for example, ASICs, special purpose computers, or general purpose computers.

[0067] Network 110 may be a network that is configured to provide communication between the various components illustrated in FIG. 1. The network may be implemented, in some embodiments, as one or more networks that connect devices and/or components in the network layout for allowing communication between them. For example, user device 101-1, 101-2, 101-3 third-party system 130,

server 120, content creation and management system 121, and database 111, 123 may be in operable communication with one another over network 110. Direct communications may be provided between two or more of the above components. The direct communications may occur without requiring any intermediary device or network. Indirect communications may be provided between two or more of the above components. The indirect communications may occur with aid of one or more intermediary device or network. For instance, indirect communications may utilize a telecommunications network. Indirect communications may be performed with aid of one or more router, communication tower, satellite, or any other intermediary device or network. Examples of types of communications may include, but are not limited to: communications via the Internet, Local Area Networks (LANs), Wide Area Networks (WANs), Bluetooth, Near Field Communication (NFC) technologies, networks based on mobile data protocols such as General Packet Radio Services (GPRS), GSM, Enhanced Data GSM Environment (EDGE), 3G, 4G, 5G or Long Term Evolution (LTE) protocols, Infra-Red (IR) communication technologies, and/or Wi-Fi, and may be wireless, wired, or a combination thereof. In some embodiments, the network may be implemented using cell and/or pager networks, satellite, licensed radio, or a combination of licensed and unlicensed radio. The network may be wireless, wired, or a combination thereof.

[0068] User device 101-1, 101-2, 101-3, third-party system 130, server 120, or content creation and management system 121, may be connected or interconnected to one or more database 111, 123. The databases may be one or more memory devices configured to store data. Additionally, the databases may also, in some embodiments, be implemented as a computer system with a storage device. In one aspect, the databases may be used by components of the network layout to perform one or more operations consistent with the disclosed embodiments. One or more local databases, and cloud databases of the platform may utilize any suitable database techniques. For instance, structured query language (SQL) or “NoSQL” database may be utilized for storing the content or document data, ruleset data, brand styles, mapping relationships, customer/reader analytics data, historical data, predictive model, training datasets, or algorithms. Some of the databases may be implemented using various standard data-structures, such as an array, hash, (linked) list, struct, structured text file (e.g., XML), table, JavaScript Object Notation (JSON), NOSQL and/or the like. Such data-structures may be stored in memory and/or in (structured) files. In another alternative, an object-oriented database may be used. Object databases can include a number of object collections that are grouped and/or linked together by common attributes; they may be related to other object collections by some common attributes. Object-oriented databases perform similarly to relational databases with the

exception that objects are not just pieces of data but may have other types of functionality encapsulated within a given object. In some embodiments, the database may include a graph database that uses graph structures for semantic queries with nodes, edges and properties to represent and store data. If the database of the present invention is implemented as a data-structure, the use of the database of the present invention may be integrated into another component such as the component of the present invention. Also, the database may be implemented as a mix of data structures, objects, and relational structures. Databases may be consolidated and/or distributed in variations through standard data processing techniques. Portions of databases, e.g., tables, may be exported and/or imported and thus decentralized and/or integrated.

[0069] In some embodiments, the platform 100 may construct the database for fast and efficient data retrieval, query and delivery. For example, the content creation and management system 121 may provide customized algorithms to extract, transform, and load (ETL) the data. In some embodiments, the content creation and management system 121 may construct the databases using proprietary database architecture or data structures to provide an efficient database model that is adapted to large scale databases, is easily scalable, is efficient in query and data retrieval, or has reduced memory requirements in comparison to using other data structures. The document or content items may be stored in a pre-defined structured data format that are described later herein.

[0070] In some embodiments, the one or more database systems 123, 111, which may be configured for storing or retrieving relevant data. Relevant data may comprise reader interaction data collected from the user/customer device, insight or intelligence extracted from the interaction data, brand style data for rendering the content, mapping relationship for brand style management, content or document data, ruleset associated with a content item, data about a predictive model (e.g., parameters, model architecture, training dataset, performance metrics, threshold, *etc.*), data generated by a predictive model such as personalization options or extracted insight, reader feedback survey, and various other data as described elsewhere herein. In some cases, the content creation and management system 121 may source data or otherwise communicate (e.g., via the one or more networks 110) with one or more external systems or data sources 111, such as one or more brand style database, media sources, analytics services, customer management services or databases. In some instances, the content creation and management system 121 may retrieve data from the database systems 111, 123 which are in communication with the one or more external systems (e.g., external media assets, *etc.*) or third-party systems 130 (e.g., third-party business entities, enterprise management software, customer management platforms, *etc.*).

[0071] In some cases, the database may store data related to machine learning-based models. For example, the database may store data about a trained personalized predictive model (e.g., parameters, hyper-parameters, model architecture, performance metrics, threshold, rules, *etc.*), data generated by a personalized predictive model (e.g., intermediary results, output of a model, latent features, input and output of a component of the model system, *etc.*), training datasets (e.g., labeled data, insight provided by expert, user feedback data, *etc.*), predictive models, algorithms, and the like. The database can store algorithms or ruleset utilized by one or more methods disclosed herein. For instance, pre-determined ruleset to be used in combination with machine learning trained models for generating a system-recommended assembly rules or personalized document may be stored in the database. In certain embodiments, one or more of the databases may be co-located with the server, may be co-located with one another on the network, or may be located separately from other devices. One of ordinary skill will recognize that the disclosed embodiments are not limited to the configuration and/or arrangement of the database(s).

[0072] In some cases, data stored in the databases or external databases can be utilized or accessed by a variety of applications through application programming interfaces (APIs). Access to the database may be authorized at per API level, per data level (e.g., type of data), per application level or according to other authorization policies.

[0073] Although particular computing devices are illustrated and networks described, it is to be appreciated and understood that other computing devices and networks can be utilized without departing from the spirit and scope of the embodiments described herein. In addition, one or more components of the network layout may be interconnected in a variety of ways, and may in some embodiments be directly connected to, co-located with, or remote from one another, as one of ordinary skill will appreciate.

[0074] Various aspects of the present disclosure may be applied to any of the particular applications set forth below or for any other types of applications or systems. Systems or methods of the present disclosure may be employed in a standalone manner, or as part of a package.

[0075] **FIG. 2** schematically shows a diagram of a content creation and management system 200, in accordance with various embodiment of the present disclosure. In some embodiments, the system 200 may comprise a content creation unit 201, a document assembly engine 203, and a data management unit 205. The system may optionally comprise an author interface 210 and a personalizer interface 220. Alternatively, the author interface or personalizer interface may be a separate component that is operably coupled to the system 200. The content creation and

management system 200 may be the same as the content creation and management system as described in FIG. 1.

[0076] In some embodiments, the content creation unit 201 may be configured to assist individuals such as authors in creating content or document. The content or document may be stored as structured data such as JavaScript object notation (JSON) data. In some embodiments, the content may be stored in a pre-defined document schema that contains the data and metadata needed to render each document. For example, the pre-define document schema may beneficially store a content item (e.g., pages, slides) of a document in a modular fashion. The document or content may be created and stored in a database that may be implemented using various standard data-structures, such as an array, hash, (linked) list, struct, structured text file (*e.g.*, XML), table, JSON, NOSQL and/or the like.

[0077] A content item such as a page, a slide, a video, an image, a chart, a text file of a document may be stored with one or more different representations (e.g., mobile rendering, desktop rendering, rendering in a browser, rendering in a desktop application, *etc.*). This may beneficially allow a content item or document being selected to be assembled with other content items to form a derivative document and the derivative document is rendered in the one or more different representations upon a request.

[0078] In some cases, a content item or a document may be stored in the structured data format with a set of rules to control how it is displayed. The set of rules may include, for example, Page Types and other Types, theme brand, styles and various others for determining how the content item is presented. For example, a Page Type A may define displaying a blue box on the right-hand side of the page with white text. One or more content items (e.g., pages) created by the system may be mapped to one or more brand themes or Page Types for rendering the content. In some embodiments of the system, the content may be stored in a content database and the theme or style branding information may be stored in a separate database, and a mapping relationship may be established to connect a content with one or more brand styles.

[0079] A style or theme branding of a given document or a set of documents can be changed or updated on the fly. For example, a set of documents are mapped to a brand, and upon a brand change, a mapping from the previous brand to a new brand may be established, and the new brand may be propagated through the set of documents instantly. In some cases, the mapping relationship may also define that when a brand is not available, the next brand should be used for displaying the content item. For instance, a mapping relationship may define that a content item is displayed using

Page Type A and when Page Type A does not exist, the content item will be displayed using Page Type B, C or D under certain conditions.

[0080] In some cases, the content creation unit 201 may include a mapping engine that may be called at runtime for rendering the content using the current mapped brand style and/or using a presentation format selected based on the rendering environment. In some instances, after selection of a content item to be assembled to a personalized document, a mapping engine is called to retrieve the mapped brand theme or style for rendering the content item.

[0081] A content item such as a page, a slide, a video, an image, a chart, a text file of a document may be associated with one or more assembly rules. The one or more assembly rules may define criteria for selecting a content item or displaying a content item. The one or more assembly rules may be related to various aspects for selecting a content item for display such as subject matter, financial data, performance data, geographic origin, identity of owner, identity of creator, and/or other information associated with the content (e.g., document size) or the use application (e.g., customer segment). The one or more assembly rules may be stored with the content item (e.g., page) in the structured data. Alternatively or in addition to, a rule ID may be stored with content that maps the content item to a set of rules stored in a ruleset data object (e.g., table).

[0082] The assembly rules can be defined by a user (e.g., author, creator) via a user interface. **FIG. 3** shows an example of a user interface (e.g., creator interface) 300 for defining the assembly rules for a page of a document. A content creator may define the rules for hiding (e.g., not selecting) or displaying (e.g., selecting) a page. As illustrated in FIG. 3, the rules may specify a set of conditions such as geographical location (e.g., state), and revenue to meet in order to display/select the respective page.

[0083] The user interface 300 may permit a user to edit the set of rules by adding, deleting a rule, modifying the value of a rule, and/or logical relationships between rules. For instance, a user may add a new rule and specify the logical relationship among the multiple rules via the user interface. For example, a user may be provided with logical relationship options (e.g., AND, OR) in the user interface 300 to select for adding a rule. A user may be allowed to define a rule with options (e.g., state) provided by the system. Alternatively or in addition to, the user interface 300 may allow a user to define rules in addition to the system provided options. For example, a user may be allowed to define a rule by a direct input in a text field (e.g., revenue range).

[0084] The logical relationship options, rule options and values can be provided in any suitable manner such that a user may set the assembly rules by interacting with the user interface. For example, the rule options can be provided via a menu (e.g., dropdown menu), via a text field (e.g., direct text input), via selectable table and other user interface features. In some cases, upon receiving the user input indicative of an update of the assembly rules, the rules may be automatically updated in the data structure of the associated content item (e.g., slide, page).

[0085] In some cases, the system may allow users to set up the assembly rules in a batch fashion. For example, as shown in **FIG. 12**, when the page rules for Pages A, B and C are identical (Show if sector = tech), instead of setting up the rule for each page individually 1200, a user may group the multiple pages as shown in 1210 and manage the rules for the group (e.g., setting a single rule for the group which is applied to all the pages in the group). This beneficially improves the efficiency for managing/setting assembly rules.

[0086] Alternatively or in addition to, the assembly rules may be automatically provided or updated by the system using a machine learning algorithm trained model. In some cases, the rule options may be automatically generated based on historical data for user to select. In some cases, an assembly rule may be automatically updated based on the collected analytics without user interaction. The machine learning algorithm can be any type of machine learning network such as a neural network. Examples of neural networks include a deep neural network, a convolutional neural network (CNN), and a recurrent neural network (RNN). The machine learning algorithm may comprise one or more of the following: a support vector machine (SVM), a naïve Bayes classification, a linear regression model, a quantile regression model, a logistic regression model, a random forest, a neural network, CNN, RNN, a gradient-boosted classifier or repressor, or another supervised or unsupervised machine learning algorithm (e.g., generative adversarial network (GAN), Cycle-GAN, *etc.*).

[0087] In some cases, the content creation unit 201 also allows users to personalize a content item (e.g., pages, slides). For example, a user may add a customer name, changing a logo, hiding a block within a page. In some cases, the pages can be customized on the fly automatically according to the information provided by the seller, so that the buyer's name, logo and website homepage, custom value propositions and the like are included at various places in the document.

[0088] In some cases, the input information may automatically trigger the updates such as via a third-party (e.g., customer) application programming interface (API). APIs or third-party resources (e.g., customer CRM, customer analytics entity, social media, *etc.*) may provide input information to

update or customize a content item in a document. In some cases, the platform may utilize API requests to interact with various external assets (e.g., media source) to aggregate those content into the document.

[0089] FIG. 8 shows an example of customizing a page via API. In the illustrated example, a user may modify or customize a base page 800 via the user interface of the content creation unit. A user may modify any customizable element within a page. For example, the base age 800 may include one or more customizable elements – a %name% field and a %logo% field. In some cases, a user may modify a selected customizable element by providing user input (e.g., values) on the user interface 810. For example, the user may directly input values for the customizable elements “Name” field and “Company domain” in the form 810. Alternatively or additionally, the input information (e.g., values) may be provided automatically by a third-party system or database via the API connection. For example, the name or the company domain may be automatically obtained from a third-party source (e.g., content library, customer CRM, customer analytics entity, social media, *etc.*) via the API connection. Upon receiving the input information, the content creation unit may automatically populate the output page 820 based on the input values, creating a personalized version of the page which can now be sent/displayed to the user.

[0090] In some embodiments, in addition to modifying a customizable element within a page, the content creation unit may allow users to include or exclude blocks of content within a page. This beneficially allows users to customize the display or appearance of an element. FIGs. 9-11 shows another example of customizing a content item. In the example illustrated in FIG. 9, the base page 900 may comprise one or more elements with display/appearance parameters. The display or appearance parameters, for example, “show and populated if a %problems% value is provided” for Text Block A, may be pre-determined for the base page. In some cases, the display/appearance parameters may be set up by a user of the content creation and management system. In some cases, the display/appearance parameters may define the display of a single element or interaction between the display of multiple elements. In the illustrated example, the display or appearance parameters for Text Block B is “show if %specialisms% is selected,” for Text Block C is “always be shown” and for Background Image is “show if Text Blocks A and B are not shown.”

[0091] In the first example 1010 illustrated in FIG. 10, when a user provides a value for Text Box A (e.g., providing a value for %problems%) and selects “specialism” (e.g., ticks %specialisms%) via the user interface (e.g., form), the output page 1110 may be populated and may show Text Block A, Text Blocks B and C, and not show Background Image (shown in FIG. 11). In the second example

1020 illustrated in FIG. 10, when a user does not provide a value for %problems% and not select %specialisms%, the output page 1120 may be populated as shown in FIG. 11. The output page 1120 may hide Text Blocks A and B, and may show the Background Image. In this scenario, the Background Image automatically fills the blank space and completes the layout when Text Blocks A and B are hidden. This beneficially provides automatic layouts design at the page level that can automatically adapt to complex layout requirement.

[0092] Referring back to FIG. 2, the document assembly engine 203 may be configured to select the documents stored in the content database 230. The document assembly engine may comprise a selection module configured to select modular content items from one or more different documents to generate a derivative document. In some cases, the content items may be selected in response to a personalization request that includes information about one or more aspects of the desired document/content. For instance, the information may be related to the expected customer segmentation/reader of the document, size of the document, location, business purpose, field, filetype and various others. Upon receiving the personalization request, the relevant content items may be automatically selected across multiple documents stored in the content database based on the assembly rules associated with each content items (e.g., subject matter, financial data, performance data, geographic origin, identity of owner, identity of creator, document size, etc.) and generate a new personalized document or derivative document.

[0093] FIGs. 4-6 show an example of assembling a document upon a personalization request. As illustrated in FIG. 4, documents A, B, C may each include a plurality of content items such as document pages A1, A2, A3, A4 for document A, document pages B1, B2, B3, B4, B5 contained in document B and documents pages C1, C2, C3, C4, C5 contained in document C. In some cases, at least one content item of a document may be associated with assembly rules as described above. For instance, page A1 has embedded rule 'if country = UK' that when the condition is met (i.e., the personalization request indicates country=UK) page A1 will be selected or displayed. It should be noted that the example is for illustration purpose only. For example, a ruleset can be associated with a content item via a mapping relationship (e.g., specified by rule ID and content ID) or be directly stored with the content data structure.

[0094] In some cases, a content item can be linked with another content items from the same or other documents. In some cases, a content item can be linked to another document. For example, document page C3 is an embedded version of document A and page C5 is an embedded version of document B. In such case, document page C3 or C5 may be automatically updated when a

change/update is made to respective document A or document B. As an example, document A may be a bank of case studies that may be automatically inserted into document C (when the assembly condition is met) that may be a report, proposal or pitch document. Upon determining the assembly rule of page C3 is met (e.g., sector=Tech), the document pages in document A may be inserted as page C3 and displayed in document C. In some cases, all of the pages of document A are displayed as page C3. Alternatively, a subset of pages of document A may be displayed according to the assembly rules associated with the pages in document A.

[0095] In some cases, the document A, B and C may be referred to as master document or source document and the assembled document such as shown in FIG. 6 may be referred to as derivative document or personalized document. A master document may have assembly rules embedded with the document. Upon creation of the derivative document, the personalization parameters (e.g., fields in the personalization form) that were provided during the personalization process and a reference to the source document may be stored in the system as a link or connection to the source document(s). Every time when the personalized document is requested or accessed by a reader, the source document may be loaded and the stored link may be used to dynamically apply changes from the source documents. This beneficially allows updating the derivative documents on the fly.

[0096] **FIG. 16** and **FIG. 17** show an example of updating the source documents and the effect on the derivative documents. The updates from the source documents may be automatically applied to the derivative documents via the stored connection. A reader can access the updated document such as a browser directly.

[0097] The personalized document can be updated based on the personalization parameters (via the personalization form), batch uploaded data (e.g., .csv file), third-party information (e.g., via API), a combination of any of the above, and/or others as described elsewhere herein. **FIGs. 18-20** shows an example of updating the personalized document on the fly based on information from external data sources. **FIG. 18** schematically shows updating personalized documents by making API calls. For example, a user in financial sector may have personalized documents 1807 each of which is about a specific stock (e.g. current share price, percentage change etc.). Such personalized documents may be automatically updated daily (or upon changes) based on the information (e.g., new price, percentage change and the like) from a third party software (e.g., stock tracker software) or external data sources 1801 by making an API call 1803 to the system (e.g., personalization engine 1805) to update the relevant information across the personalized documents.

[0098] As shown in **FIG. 19**, the personalized document can be updated based on the personalization input data including personalization parameters (via the personalization form) 1901, batch uploaded data (e.g., .csv file) 1905, and third-party information (e.g., via API) 1903 or other suitable input data. The assembly engine or rules engine 1907 may generate the personalized document 1909 as described elsewhere herein. Whenever there is an update in the input data (e.g., a field update in the personalization form, external data sources, new uploaded data.csv), the personalized document 2001 may be updated automatically as shown in FIG. 20.

[0099] In some cases, the system may be capable of converting a personalized document into a master document. The system may break the connection between the personalized document and its original master document such that updates to the original master document may not affect the personalized document whereas the converted personalized document can be fully customized and used for creating further derivative versions or documents. During conversion, the system may run the personalization fields through the assembly engine and store the personalization fields in the database as assembly rules associated with a new master document. The stored fields from the personalization step may be “hardcoded” into the new master document as assembly rules (e.g., embedded with the master document) which can then be edited and personalized in a manner similar to other master documents.

[0100] In some embodiments, the system may allow users to personalize the document based on live rules. The live rules may be based on live information. For example, the live rules may define the personalized document to be assembled or personalized based on the weather at the reader’s location, time of day and the like.

[0101] The personalization request may be provided by a user (e.g., personalizer) who are personalizing or customizing a document. In some cases, the document assembly engine may provide a user interface (e.g., personalizer interface) for a user to provide input about personalization a selected document. **FIG. 5** shows an example of a user interface for personalizing a selected document.

[0102] In some cases, the user interface (e.g., personalizer interface) may automatically populate one or more fields corresponding to one or more personalization parameters for a user to personalize a selected document (e.g., document C). As shown in the example, a form 500 may be automatically populated with one or more parameters fields. The personalization parameter field may be auto-populated based on the assembly rules associated with the content items of document C. The assembly rules may be used to identify parameters fields that require user input. For instance, the

one or more parameter fields may include 'sector' embedded in page C2 and C3, 'if customer' embedded in page C4 and 'size' embedded in page C5. In the case when a page of the document is linked to another document/page, a composite parameter field based on the rule (e.g., country) associated with the linked document or page (e.g., document A) may also be provided on the user interface.

[0103] A user may specify a value from a set of options for one or more of the parameter fields for personalizing the selected document. The personalization options can be provided in any suitable manner such as via a menu (e.g., dropdown menu), via a text field (e.g., direct text input), a text area including multiple text fields, a checkbox (e.g., list of tick-box options), via selectable table and other user interface features.

[0104] In some cases, a personalization form may be associated with one or more master documents or starting documents. For example, different industries may have different master documents. In some cases, upon a user selecting an industry to begin with, the corresponding personalization form may be displayed for the user to fill in the fields.

[0105] In some cases, at least a portion of the parameters or all of the parameters may be automatically determined without user intervention or user input. For example, at least a portion of the fields may be automatically filled via an API connection to the customer's CRM. Such connection may be established that permits the form to be completed using data retrieved from the relevant sources (e.g., third-party database, CRM) in response to a personalization request. For example, a personalizer may only need to specify the relevant contact record from their CRM and the form may be auto-populated based on the information retrieved from the CRM. In some cases, the information inputted by a user for various purposes may be processed and used to automatically filled-in a field. For example, user's single-sign on information (e.g., email address) may be processed to extract the domain, and the domain information may be used to identify an organization associated with the user, then automatically fill in the organization field in the form.

[0106] In some cases, one or more values in the fields may be automatically calculated/updated based on the values of other fields. For instance, one or more fields may be expression field that has a value calculated based on a pre-defined relationship with another field. For example, a field A may be "price" field, field B is "taxPct" field, field C is "total," and value of field C may be calculated based on the pre-defined relationship: $\text{fieldC} = \text{fieldA} + \text{fieldB}/100$. In some cases, such relationship may be defined using the expression: $\text{"\$": fields.price * (1 + fields.tax Pct/ 100)}$. In addition to defining relationship between multiple fields, properties such as facts about an item in the system

may also be defined using the expression such that a field can be updated automatically. For example, the expression of user's email address or email domain may be "\$: ctx.user.email" or "\$: ctx.user.email.split['@'][1]" and such expression may allow the form to grab the email information from the third-party system via the API as described above.

[0107] In the illustrated example, upon receiving a user input indicating the personalization parameters, a resultant personalized document may be assembled by pulling the content items that meet the personalization parameters from one or more documents. As shown in **FIG. 6**, the personalized document 600 may be automatically generated by pulling C1 from document C (C1 has no page rule), page A1 from document A (country=UK and sector=Tech), pages B1 from document B (size=large and B1 has no page rule), page B2 from document B (e.g., size=large and B2 has no page rule) and page B3 from document B (size=large and sector=Tech). In the illustrated example, when an assembly rule is not defined for a given content item, the content item may be set to meet any personalization parameters and be displayed by default. It is noted that the default display or hidden for a content item when there is no rule is defined can be set up by a user (e.g., author or administer) of the system.

[0108] In some embodiments, the system may allow users to set access permissions on the document. For example, a user may set the access permission to allow people with a specific email domain to access a document. In some cases, the access permission can be set up in the personalization form. For example, a user may provide the email domain in the personalization form to give access permission to other users with the email domain.

[0109] In some embodiments, the system may also allow users to batch upload files thereby improving the efficiency to assemble a large number of documents. In some cases, a user may upload a file containing personalization parameters and values for multiple documents. The file can be in any format that is suitable for exchanging text data. For example, a user may upload a .csv (Comma Separated Values) file which contains rows and columns. Each column may have a heading and relate to a given field from the personalization form, and each row entry may include the required data/value for the corresponding field. Upon uploading the text file, the system may extract the values for the corresponding parameters and generate the assembly rules accordingly. In some cases, the resulting assembled documents may be delivered to the user in the form of .csv (containing URLs for the assembled documents). This batch processing capability beneficially allows users to personalize multiple documents without manually filling the individual forms. In

some cases, the text file may also be used to upload complex information (e.g. a pricing table) which can be part of a form submission.

[0110] In some embodiments, the personalization form may also be filled in by both a personalizer and a reader. The system may provide a user interface allowing the users choose to access and provide information to the personalization form as a reader or a personalizer. **FIG. 13** shows an example of a user interface that allows users of the system to choose to personalize the document as a reader of the content or as a personalizer (e.g., vendor, seller). For example, if the user selected to personalize the document as a reader, the user may be presented a user interface as shown in **FIG. 14** where the personalization form 1401 is displayed to the user as an overlay on top of the content 1403 before they start reading the content. The assembly process and personalization process are essentially the same as those as described elsewhere herein.

[0111] In some embodiments, during the personalization such as a user filling/completing the personalization form, the system may display the content on the fly to allow users visualize the effects in real-time. **FIG. 15** shows an example of a user interface displaying the content live when a user completes a personalization form. In the example, a user may use the “Back” and “Next” buttons 1501 to toggle between different stages in completing the personalization form. Upon receiving an input in a field of the personalization form, the document 1503 may automatically navigate to the relevant page and highlight the content (e.g., blocks 1505) that is related to the field. This beneficially provides a transparent visualization of the effect of the personalization parameters (e.g., field in the form) and allows users to personalize the document with real-time visual feedback.

[0112] Referring back to **FIG. 2**, in some embodiments, the document assembly engine 203 may comprise a content renderer for rendering the assembled document. The content renderer may be configured to execute a script (e.g., JavaScript) associated with the content and display its output in the representation as defined by the script. For example, the content renderer may render the content or document as a web-page in web browser, as a document in a desktop, document-based application that is native to the operating system, in a mobile web-browser or mobile application. The content renderer may include or be coupled to a mapping engine as described above for displaying the content item in the brand theme/style mapped to the content item. For example, the mapping engine may retrieve the brand information from the brand database based on the presentation rules associated with the content item. Any change to a brand style (e.g., change of a brand style, off brand/not available, change of mapping relationship to a different brand style) may be updated at runtime and reflected upon rendering the content.

[0113] The data management unit 205 may provide the reader analytics capability that can be utilized to track, analyze and extract insight about how a reader interacts with the personalized content. For example, the document may be embedded with tracking features (e.g., web analytics tracker), insight metrics, analytics, or interfaces capable of extracting intelligence and insight for a variety of applications. For instance, data may be collected indicative of user interaction with the document. The interaction data may be analyzed to extract metrics and usage analytics measuring the degree to which slides/pages were provided or made available to and viewed by customers (e.g., the number of times a content item was pitched to customers), performance metrics measuring the degree to which readers have engaged with (e.g., read, edited, shared, saved) the interactive content (e.g., the dwell time on an item, such as the amount of time that the content was displayed in a content viewer (e.g., web browser or other application), impact analytics indicative of the content's impact on business metrics (e.g., average revenue per pitch of a content item that may be obtained from other systems, such as customer relationship management (CRM) systems, marketing automation systems, *etc.*), and various other analytics. Such analytics may be used to personalize a future interactive content/document.

[0114] The data management unit 205 may also be configured to manage the content data, metadata, assembly rules, analytics data, brand styles, presentation formats, and other data as described elsewhere herein in the database 230. The data management unit 205 may comprise a plurality of functional components for analyzing the collected reader interaction data, extracting intelligence and insight for improving the personalized content. The database 203 can be the same as the database as described in FIG. 1.

[0115] The creator interface 210 may be configured to permit content creators or authors to create documents and content, and define one or more assembly rules associated with a content item as described above. In some cases, the creator interface may include a graphical user interface (GUI) that can be integrated into other applications (e.g., interactive content creation application) or webhooks that can be integrated into other applications. A user (e.g., creator, author) may preview, edit, save, create document, content items, and assembly rules via the GUI.

[0116] In some embodiments, the GUIs may be rendered on a display screen on a user device (e.g., a user device). The user interfaces and functionality described herein may be provided by software executing on the user's computing device, by the system 200 located remotely that is in communication with the computing device via one or more networks, and/or some combination of

software executing on the computing device. The user interfaces may be provided by a cloud computing system.

[0117] The personalizer interface 220 may be configured for representing one or more personalization fields for a user to personalize a selected document. In some cases, the personalizer interface may provide a graphical user interface (GUI) that can be integrated into other applications (e.g., enterprise applications) or API/webhooks that can be integrated into other applications. A user (e.g., personalizer) may preview, edit, save, publish a personalized document, and provide personalization parameters via the GUI.

[0118] One or more of the multiple components may be coupled to a database 230. The database can be the same as the database 111, 123 as described in FIG. 1. In some cases, the system may implement one or more trained predictive models to generate or update the assembly rules, analyze reader interaction data, extract insight and intelligence and perform various other functions as described herein. The content creation and management system may implement the methods described with respect to **FIG. 7**.

[0119] **FIG. 7** illustrates an example of a process 700 of generating personalized, interactive content 739, according to some embodiments described herein. At a content creation stage 701, a content creator or author 703 may create a document or content 707 using a content creation unit 705. For example, the content creation unit may provide a client software (i.e., software applications installed on the creator's devices) that may be available either as downloadable software or mobile applications for various types of computer devices as described above. Alternatively, the client software can be implemented in a combination of one or more programming languages and markup languages for execution by various web browsers. For example, the client software can be executed in web browsers that support JavaScript and HTML rendering, such as Chrome, Mozilla Firefox, Internet Explorer, Safari, and any other compatible web browsers. The various embodiments of client software applications may be compiled for various devices, across multiple platforms, and may be optimized for their respective native platforms. The client software tool 705 may also permit the author 703 to add, edit, and modify one or more rules associated with a document, content or content item (e.g., document page, slides, etc.). The one or more rules may include assembly rules and/or presentation rules (e.g., brand styles) as described above.

[0120] The created document may be stored as structured data such as JavaScript object notation (JSON) data in the document database 711. For example, the document may be stored in a pre-defined document schema that contains the content data and metadata needed to render each

document (e.g., mapping relationship to a brand style), and data about the assembly rules for selecting a content item for display. In some cases, the document database 711 may also store the brand styles data. Alternatively, the brand styles may be stored in a separate database or can be retrieved from external data sources using the mapping relationship.

[0121] A personalizer 721 (e.g., marketing managers, content managers, sales people, recruiters, marketers, *etc.*) may access the system for customizing and personalizing a document created by the authors. The personalizer 721 may select one or more documents 725 for customization via a library tool 723 provided by the system. The personalizer 721 may proceed to input one or more personalization parameters for personalizing the selected document (personalization stage 731). The one or more personalization parameters may be provided via a personalization interface 733 as described above. For instance, a form may be generated upon receiving a user input indicating the document to be personalized. The form may be displayed on a user interface to the personalizer with one or more auto-populated fields prompting the user to select one or more options for personalizing the document. Upon completion of the form 735, the assembly engine 737 of the system may retrieve the relevant content items (e.g., document pages, content elements within a page) from the document database 711 and generate a personalized document 739. In some cases, the assembly engine may retrieve content items from external data sources such as customer CRM, or other external assets and databases based on the assembly rules embedded in the content item of the selected document.

[0122] The personalized document 739 may be rendered and output for display to a reader 741. For example, the personalized document may be provided to readers with tracking features or interfaces capable of extracting intelligence, reading analytics and insight 743 for a variety of applications. For instance, the document may be rendered within a browser and a web analytics tracker may be used for collecting data about how the reader interacts with the document, content items or web page.

[0123] In some cases, the personalized document may include interactive features for a reader to actively interact with one or more content items. For instance, a reader may be permitted to browse, filter, or select a content item (e.g., page, video) for viewing. In some cases, the interactive features may include a survey requesting reader's input. In some cases, analytics features such as NLP engine to process the input data (e.g., input text captured from the survey) and produce a structured output including the linguistic information. The NLP engine may employ any suitable NLP techniques such as a parser to perform parsing on the input text. A parser may include instructions for

syntactically, semantically, and lexically analyzing the text content of the user input and identifying relationships between text fragments in the user input. The parser makes use of syntactic and morphological information about individual words found in the dictionary or "lexicon" or derived through morphological processing (organized in the lexical analysis stage).

[0124] As used herein, "or" is inclusive and not exclusive, unless expressly indicated otherwise by context. Therefore, "A or B" means "A, B, or both," unless expressly indicated otherwise or indicated otherwise by context. Moreover, "and" is both joint and several, unless expressly indicated otherwise or indicated otherwise by context.

[0125] While preferred embodiments of the present invention have been shown and described herein, it will be obvious to those skilled in the art that such embodiments are provided by way of example only. It is not intended that the invention be limited by the specific examples provided within the specification. While the invention has been described with reference to the aforementioned specification, the descriptions and illustrations of the embodiments herein are not meant to be construed in a limiting sense. Numerous variations, changes, and substitutions will now occur to those skilled in the art without departing from the invention. Furthermore, it shall be understood that all aspects of the invention are not limited to the specific depictions, configurations or relative proportions set forth herein which depend upon a variety of conditions and variables. It should be understood that various alternatives to the embodiments of the invention described herein may be employed in practicing the invention. It is therefore contemplated that the invention shall also cover any such alternatives, modifications, variations or equivalents. It is intended that the following claims define the scope of the invention and that methods and structures within the scope of these claims and their equivalents be covered thereby.

CLAIMS

WHAT IS CLAIMED IS:

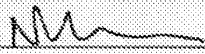
1. A system for automatically assembling an interactive document comprising:

a server in communication with a plurality of user devices over a network, wherein the server comprises: a memory for storing a set of software instructions, and one or more processors configured to execute the set of software instructions to:
 - (a) embed a first set of rules into a first modular item of a first document;
 - (b) receive one or more parameters for personalizing the first document;
 - (c) pull a second modular item from a second document based at least in part on a value of the one or more parameters and the first set of rules; and
 - (d) assemble the second modular item with the first document to generate a derivative document.

ABSTRACT OF THE DISCLOSURE

A system is provided for personalizing an interactive content. The system comprises: a content creation component configured to create one or more content items for a document, and at least one content item is associated with a set of rules defining a link between the at least one content item and another document or a rule for assembling the at least one content into a personalized document; and a content personalization component configured to: (i) receive an instruction for personalizing a given document; (ii) assemble a plurality of content items to generate a personalized document, and the plurality of content items are pulled from the given document and at least another document based at least in part on a set of rules associated with at least one content item of the given document; and (iii) render the personalized document using a brand style associated with the given document.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION
As the below named inventor, I hereby declare that: This declaration is directed to: ☐ The attached application, or ☒ United States application or PCT international application number <u>17/347,899</u> filed on <u>June 15, 2021</u> The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WARNING: Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.	
LEGAL NAME OF INVENTOR	
Inventor: <u>Nicholas Kingsley Mason</u> Date (Optional): <u>18 JUNE 2021</u>	
Signature: 	
Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.	

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO in process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1 minute 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, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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APPLICATION #
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Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 6650

FILED BY Joan Abriam

PATENT CENTER # 62491464

FILING DATE -

CUSTOMER # 21971

FIRST NAMED INVENTOR Nicholas Kingsley Mason

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Shuaimin Liu

Documents

TOTAL DOCUMENTS: 7

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Turtl Surf & Immerse Limited 56000-701.303 ADS.pdf	8	Application Data Sheet	2179 KB
Turtl Surf & Immerse Limited 56000-701.303 Application.pdf	36	-	241 KB
Turtl Surf & Immerse Limited 56000-701.303 Application- SPEC.pdf	(1-34) 34	Specification	221 KB
Turtl Surf & Immerse Limited 56000-701.303 Application- CLM.pdf	(35-35) 1	Claims	97 KB

Turtl Surf & Immerse Limited 56000-701.303 Application- ABST.pdf	(36-36)	1	Abstract	83 KB
Turtl Surf & Immerse Limited 56000-701.303 Drawings.pdf		20	Drawings-only black and white line drawings	1973 KB
Turtl Surf & Immerse Limited 56000-701.303 Declaration.pdf		1	Oath or Declaration filed	494 KB
Turtl Surf & Immerse Limited 56000-701.303 POA.pdf		2	Power of Attorney	651 KB

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Turtl Surf & Immerse Limited 56000-701.303 Application.pdf	D463332A89E9361B0FB9A3FDE952496D99FAE1272AD1631588 A601F2C220493376EA61E288C6AEB9EBAA9F4C0AB753B81BC 9262FA0799059082C2521050B5241
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Turtl Surf & Immerse Limited 56000-701.303 Application- CLM.pdf	833E32AB71673BA2A9A743AF6BB071384DD5436A6C42D5166 E84D44904E38186D8870D2CAA89621402CCF057F8AAB1BD7F 1D4C2F4DC6E726BDD99DC3E00F7C48
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Turtl Surf & Immerse Limited 56000-701.303 Drawings.pdf	5DCACBFAAADFF276EC9E3BE1067A26EFF120986B6D53E506 FC9983926BCA36EDC1132D90CF23FF5E8C22F0BA21AD88577 8A3A0A95B79A84C904C7B8C49A46A22
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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
18/357,451	07/24/2023		0	56000-701.303	1	1

CONFIRMATION NO. 6650

21971

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PALO ALTO, CA 94304-1050

FILING RECEIPT



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Date Mailed: 08/08/2023

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Power of Attorney: The patent practitioners associated with Customer Number 021971

Domestic Priority data as claimed by applicant

This application is a CON of 17/830,566 06/02/2022
which is a CON of 17/347,899 06/15/2021 PAT 11,379,651
which claims benefit of 63/048,512 07/06/2020

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

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Projected Publication Date: To Be Determined - pending completion of Missing Parts.

Non-Publication Request: No

Early Publication Request: No
Title

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 18/357,451					
APPLICATION AS FILED - PART I											
		(Column 1)	(Column 2)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY			
FOR		NUMBER FILED		NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A		N/A	N/A			N/A	320		
SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A		N/A	N/A			N/A	700		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A		N/A	N/A			N/A	800		
TOTAL CLAIMS (37 CFR 1.16(i))	1	minus 20 =		0			OR	x	= 0		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1	minus 3 =						x	= 0		
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								0		
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))									0		
					TOTAL			TOTAL	1820		
* If the difference in column 1 is less than zero, enter "0" in column 2.											
APPLICATION AS AMENDED - PART II											
		(Column 1)	(Column 2)		(Column 3)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=	
	Application Size Fee (37 CFR 1.16(s))							OR			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR			
					TOTAL ADD'L FEE			OR	TOTAL ADD'L FEE		
		(Column 1)	(Column 2)		(Column 3)		SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	*	Minus	**	=	x	=	OR	x	=	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x	=	OR	x	=	
	Application Size Fee (37 CFR 1.16(s))							OR			
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR			
					TOTAL ADD'L FEE			OR	TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.											



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/357,451	07/24/2023	Nicholas Kingsley Mason	56000-701.303

CONFIRMATION NO. 6650

21971

WILSON SONSINI GOODRICH & ROSATI
650 PAGE MILL ROAD
PALO ALTO, CA 94304-1050

FORMALITIES LETTER



OC000000060213128

Date Mailed: 08/08/2023

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to the above-identified nonprovisional application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee has not been received.
- The application search fee must be submitted.
- The application examination fee must be submitted.
- Surcharge as set forth in 37 CFR 1.16(f) has not been received.

The surcharge is due for any one of:

- late submission of the basic filing fee, search fee, or examination fee,
- late submission of inventor's oath or declaration,
- filing an application that does not contain at least one claim on filing, or
- submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required (including the fees noted above) are as follows. No entity status discount is in effect. If applicant is qualified for small entity status, a written assertion of small entity status must be submitted to establish small entity status. (See 37 CFR 1.27). If applicant is qualified for micro entity status, an acceptable Certification of Micro Entity Status must be submitted to establish micro entity status. (See 37 CFR 1.29 and forms PTO/SB/15A and 15B.)

- **\$320** basic filing fee.
- **\$160** surcharge.
- **\$700** search fee.
- **\$800** examination fee.
- **\$(0)** previous unapplied payment amount.
- **\$1980** TOTAL FEE BALANCE DUE.

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be addressed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

REPLY VIA ELECTRONIC FILING

A reply may be submitted via electronic filing only by registered users of the appropriate USPTO patent electronic filing system and must include:

- A separate document having the document description, "**Applicant response to Pre-Exam Formalities Notice**"; and
- the item(s) for which a reply period is set forth above.

For more information about electronic filing, contact the Patent Electronic Business Center (EBC) 1-866-217-9197 or visit <https://www.uspto.gov/ebc>

NOTE: If the reply is not being submitted electronically, a copy of this notice must be included.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/byemane-brehan/



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ELECTRONIC PAYMENT RECEIPT

APPLICATION # 18/357,451	RECEIPT DATE / TIME 12/05/2023 11:21:13 AM Z ET	ATTORNEY DOCKET # 56000-701.303
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Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	6650	FILED BY	Joan Abriam
PATENT CENTER #	63489337	AUTHORIZED BY	Shuaimin Liu
CUSTOMER #	21971	FILING DATE	07/24/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nicholas Kingsley Mason

Payment Information

PAYMENT METHOD DA / 232415	PAYMENT TRANSACTION ID E2023B5B23548864	PAYMENT AUTHORIZED BY Joan Abriam
PRE-AUTHORIZED ACCOUNT 232415	PRE-AUTHORIZED CATEGORY 37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.21 (Miscellaneous fees and charges)	

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1051	SURCHARGE- LATE FILING FEE, SEARCH FEE, EXAMINATION FEE, INVENTOR'S OATH OR DECLARATION, OR APPLICATION FILED WITHOUT AT LEAST ONE CLAIM OR BY REFERENCE	160.00	1	160.00
1111	UTILITY PATENT APPL. SEARCH FEE	700.00	1	700.00
1011	BASIC FILING FEE - UTILITY (PAPER FILING ALSO REQUIRES NON-	320.00	1	320.00

ELECTRONIC FILING FEE UNDER
1.16(T))

1311	PATENT APPL. EXAMINATION FEE	800.00	1	800.00
1252	EXTENSION FOR RESPONSE WITHIN SECOND MONTH	640.00	1	640.00
TOTAL AMOUNT:				\$2,620.00

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Filed Electronically: December 5, 2023

PATENT
Attorney Docket No. 56000-701.303

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:

Inventors: Nicholas Kingsley Mason

Application No.: 18/357,451

Filed: July 24, 2023

Title: **METHODS AND SYSTEMS FOR
INTERACTIVE CONTENT CREATION**

Confirmation No.: 6650

Examiner: *Not yet assigned*

Group Art Unit: *Not yet assigned*

Customer No. 21971

Mail Stop Missing Parts
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PRELIMINARY AMENDMENT AND
RESPONSE TO NOTICE TO FILE MISSING PARTS

Dear Commissioner:

Applicant submits herewith a Preliminary Amendment in Response to the Notice to File Missing Parts mailed on August 8, 2023, setting a two-month shortened statutory period for reply. This response is submitted with a request for a two-month extension of time and payment of the requisite fee.

Prior to examination on the merits of the above-identified application and calculation of additional fees, please amend the specification as follows:

Amendments to the Claims begin on page 2 of this paper.

Remarks appear on page 5 of this paper.

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces any prior version of claims in the application.

1. (Canceled)
2. (New) A system for creating an interactive document, the system comprising:
a memory for storing a set of software instructions, and one or more processors configured to execute the set of software instructions to perform one or more operations comprising:
 - (a) generating an interactive document comprising one or more modular items, wherein the one or more modular items are pulled from a master document based at least in part on one or more personalization parameters;
 - (b) creating a link between the interactive document and the master document, wherein the link comprises the one or more personalization parameters;
 - (c) rendering the interactive document with aid of a content render, wherein the content render is configured to use the link to apply a change to the one or more modular items based on a change to the master document.
3. (New) The system of claim 2, wherein the interactive document comprises a tracking feature to collect data indicative of user interaction with the interactive document.
4. (New) The system of claim 2, wherein the one or more modular items from the master document are embedded with an assembly rule.
5. (New) The system of claim 4, wherein the one or more modular items in the interactive document are not embedded with the assembly rule.
6. (New) The system of claim 2, wherein the one or more operations further comprise providing a graphical user interface (GUI) for receiving the one or more personalization parameters.
7. (New) The system of claim 6, wherein the GUI is configured to display a preview of the interactive document upon receiving a user input indicative of at least one of the one or more personalization parameters.
8. (New) The system of claim 7, wherein the preview comprises automatically navigating to at least one of the one or more modular items corresponding to the user input.

9. (New) The system of claim 2, wherein the master document is stored in a pre-defined document schema.
10. (New) The system of claim 9, wherein the master document is stored as structured data in a document database.
11. (New) The system of claim 10, wherein the structured data further stores an assembly rule associated with the one or more modular items.
12. (New) A computer-implemented method for creating an interactive document, comprising:
 - (a) generating an interactive document comprising one or more modular items, wherein the one or more modular items are pulled from a master document based at least in part on one or more personalization parameters;
 - (b) creating a link between the interactive document and the master document, wherein the link comprises the one or more personalization parameters;
 - (c) rendering the interactive document with aid of a content render, wherein the content render is configured to use the link to apply a change to the one or more modular items based on a change to the master document.
13. (New) The computer-implemented method of claim 12, wherein the interactive document comprises a tracking feature to collect data indicative of user interaction with the interactive document.
14. (New) The computer-implemented method of claim 12, wherein the one or more modular items from the master document are embedded with an assembly rule.
15. (New) The computer-implemented method of claim 14, wherein the one or more modular items in the interactive document are not embedded with the assembly rule.
16. (New) The computer-implemented method of claim 12, wherein the one or more operations further comprise providing a graphical user interface (GUI) for receiving the one or more personalization parameters.
17. (New) The computer-implemented method of claim 16, wherein the GUI is configured to display a preview of the interactive document upon receiving a user input indicative of at least one of the one or more personalization parameters.

18. (New) The computer-implemented method of claim 17, wherein the preview comprises automatically navigating to at least one of the one or more modular items corresponding to the user input.
19. (New) The computer-implemented method of claim 12, wherein the master document is stored in a pre-defined document schema.
20. (New) The computer-implemented method of claim 19, wherein the master document is stored as structured data in a document database.
21. (New) The computer-implemented method of claim 20, wherein the structured data further stores an assembly rule associated with the one or more modular items.

REMARKS

Claim 1 was pending prior to entry of the amendments presented in this response. Claim 1 is herein canceled without prejudice or disclaimer of its subject matter. New claims 2-21 have been added. Support for the new claims can be found in the application as originally filed. No new matter has been introduced by way of this amendment. Accordingly, claims 2-21 are currently pending.

CONCLUSION

This Amendment is filed prior to examination on the merits. Applicant respectfully requests entry of the claims as shown herein and solicits the Examiner to expedite prosecution of this patent application to issuance. Should the Examiner have any questions, the Examiner is encouraged to telephone the undersigned.

The Commissioner is hereby authorized to charge any additional fees that may be required, or credit any overpayment to Deposit Account No. 23-2415, referencing Attorney Docket No. 56000-701.303.

Respectfully submitted,

WILSON SONSINI GOODRICH & ROSATI

Date: December 5, 2023

By: /Shuaimin Liu/
Shuaimin Liu
Reg. No. L1361

650 Page Mill Road
Palo Alto, CA 94304
Phone: (650) 849-3332
Customer No. 021971



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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/357,451

RECEIPT DATE / TIME
12/05/2023 11:21:13 AM Z ET

ATTORNEY DOCKET #
56000-701.303

Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 6650

FILED BY Joan Abriam

PATENT CENTER # 63489337

FILING DATE 07/24/2023

CUSTOMER # 21971

FIRST NAMED INVENTOR Nicholas Kingsley Mason

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Shuaimin Liu

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Turtl Surf Immerse Limited 56000-701-303 PA and Response to Missing Parts.pdf	6	-	123 KB
Turtl Surf Immerse Limited 56000-701-303 PA and Response to Missing Parts- PEFR.pdf	(1-1) 1	Applicant Response to Pre- Exam Formalities Notice	98 KB
Turtl Surf Immerse Limited 56000-701-303 PA and Response to Missing Parts- CLM.pdf	(2-4) 3	Claims	116 KB

Turtl Surf Immerse Limited 56000-701-303 PA and Response to Missing Parts- REM.pdf	(5-6)	2	Applicant Arguments/Remarks Made in an Amendment	78 KB
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Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Turtl Surf Immerse Limited 56000-701-303 PA and Response to Missing Parts.pdf	D04423EB2088740CDC50BDCD7E4676FCD42F0A73EEBF4501 1C54E0302DB15E6719A6C1BE4ACF3E1B4DADF081708B13546 EB53365A26445288F0933F701224B0C
Turtl Surf Immerse Limited 56000-701-303 PA and Response to Missing Parts- PEFR.pdf	B7012CF6F65DF8650DE2455A7624B7C8A7A36174BA1D1F60A 35991EF3594860F289AC797F38874A95A45F1E29E16DF6AF35 3D3E7C0B6128EDC5BD24DB4A91D93
Turtl Surf Immerse Limited 56000-701-303 PA and Response to Missing Parts- CLM.pdf	D3C5EE93C946108C619F395DCBFF6EDCC02636E1444D0254 D279113B4A62FBF60EC82DA42EBD41F9BBD10961B76A872D3 63B7564B201A5A88826D651F472EFC4
Turtl Surf Immerse Limited 56000-701-303 PA and Response to Missing Parts- REM.pdf	EF5BB707C174C4FD5AFA7C46D3E1F408CF556E77149169A13 083D0AF8BC256610D67FC0DC0FEF99DAF1D3DF61F658CF4E 6C1F4FAAE5658831CEF652972ABB3F9

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT APPLICATION FEE DETERMINATION RECORD						Application or Docket Number 18/357,451			
Substitute for Form PTO-875									
APPLICATION AS FILED - PART I									
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY			
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)		
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	320		
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A			N/A	700		
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	800		
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*	0			x =	0		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*				x =	0		
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0		
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0		
				TOTAL		TOTAL	1820		
* If the difference in column 1 is less than zero, enter "0" in column 2.									
APPLICATION AS AMENDED - PART II									
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY	
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	* Minus **	=	x =			x =		
	Independent (37 CFR 1.16(h))	* Minus ***	=	x =			x =		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE			TOTAL ADD'L FEE		
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)	
	Total (37 CFR 1.16(i))	* Minus **	=	x =			x =		
	Independent (37 CFR 1.16(h))	* Minus ***	=	x =			x =		
	Application Size Fee (37 CFR 1.16(s))								
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))								
				TOTAL ADD'L FEE			TOTAL ADD'L FEE		
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3. ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20". *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3". The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.									



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
18/357,451	07/24/2023		1980	56000-701.303	20	2

CONFIRMATION NO. 6650

UPDATED FILING RECEIPT



0000000065483154

21971

WILSON SONSINI GOODRICH & ROSATI
650 PAGE MILL ROAD
PALO ALTO, CA 94304-1050

Date Mailed: 12/07/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Nicholas Kingsley Mason, St Albans, UNITED KINGDOM;

Applicant(s)

Turtl Surf & Immerse Limited, London, UNITED KINGDOM;

Power of Attorney: The patent practitioners associated with Customer Number 021971

Domestic Priority data as claimed by applicant

This application is a CON of 17/830,566 06/02/2022 PAT 11,755,816
which is a CON of 17/347,899 06/15/2021 PAT 11,379,651
which claims benefit of 63/048,512 07/06/2020

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 08/04/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/357,451**

Projected Publication Date: 03/14/2024

Non-Publication Request: No

Early Publication Request: No
Title

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	18/357,451
				Filing Date	07-24-2023
				First Named Inventor	MASON; Nicholas Kingsley
				Art Unit	2144
				Examiner Name	Unassigned
				Attorney Docket Number	56000-701.303
Sheet	1	of	7		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	001	US-8219914	07-10-2012	RAUBER; Nicolas et al.	
	002	US-8752086	06-10-2014	CONANT; Carson Victor	
	003	US-8924516	12-30-2014	SANGHAVI; Mehul K. et al.	
	004	US-9715482	07-25-2017	BJORKEGREN; Michael Erik Carl	
	005	US-9727618	08-08-2017	SHARP; Oliver et al.	
	006	US-9792270	10-17-2017	KLOIBER; Daniel J. et al.	
	007	US-9910663	03-06-2018	BIEAR; Mary	
	008	US-9928230	03-27-2018	JAIN; Neeta et al.	
	009	US-10318553	06-11-2019	BAUM; Michael Joseph et al.	
	010	US-10402064	09-03-2019	AL-SALLAMI; Wael et al.	
	011	US-10475477	11-12-2019	BISKEBORN; Robert G.	
	012	US-10497401	12-03-2019	LIANG; Jason et al.	
	013	US-10783315	09-22-2020	YOO; Dong Hwi et al.	
	014	US-10977431	04-13-2021	BURKE; John	
	015	US-11361144	06-14-2022	MASON; Nicholas Kingsley	
	016	US-11379651	07-05-2022	MASON; Nicholas Kingsley	
	017	US-11755816	09-12-2023	MASON; Nicholas Kingsley	
	018	US-20030176931	09-18-2003	PEDNAULT; Edwin Peter Dawson et al.	
	019	US-20040015408	01-22-2004	RAUEN, IV; Philip Joseph et al.	
	020	US-20040135805	07-15-2004	GOTTSACKER; Neal et al.	

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	18/357,451
Filing Date	07-24-2023
First Named Inventor	MASON; Nicholas Kingsley
Art Unit	2144
Examiner Name	Unassigned
Attorney Docket Number	56000-701.303

Sheet 2 of 7

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	021	US-20090043755	02-12-2009	FARIS; Andrew Boath et al.	
	022	US-20090076834	03-19-2009	RAUBER; Nicolas et al.	
	023	US-20100205032	08-12-2010	NIELSEN; Steven et al.	
	024	US-20110029858	02-03-2011	HAUSER; Eduardo A.	
	025	US-20120159300	06-21-2012	VINCENT, III; Winchel Todd	
	026	US-20130031470	01-31-2013	DALY, Jr.; Timothy P. et al.	
	027	US-20130046616	02-21-2013	WILLIAMS; Dale et al.	
	028	US-20130151955	06-13-2013	WILLIAMS; Mechell	
	029	US-20130191708	07-25-2013	SONG; Young-Joo	
	030	US-20140040263	02-06-2014	SHERMAN; Yahali et al.	
	031	US-20140278758	09-18-2014	CHRISTIANSEN; Bradley et al.	
	032	US-20140301977	10-09-2014	NADARAJAH; Deepa et al.	
	033	US-20150040006	02-05-2015	GENTILE; Antonio	
	034	US-20150081611	03-19-2015	SHIVAKUMAR; Shailesh Kumar	
	035	US-20150212997	07-30-2015	KASSIM; Yousef et al.	
	036	US-20150286742	10-08-2015	ZHANG; Guannan et al.	
	037	US-20160062576	03-03-2016	SIMON; Todd	
	038	US-20160188556	06-30-2016	LI; Yun	
	039	US-20160232131	08-11-2016	LIU; Eric Hc et al.	
	040	US-20160232137	08-11-2016	LIU; Eric Hc	

Examiner
SignatureDate
Considered

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			Art Unit	2144	
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Sheet	3	of	7		

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Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	041	US-20160275453	09-22-2016	POWERS; Frederick A. et al.	
	042	US-20160306774	10-20-2016	FLORES; Christina I. et al.	
	043	US-20160306792	10-20-2016	FLORES; Christina I. et al.	
	044	US-20160321589	11-03-2016	POWERS; Frederick A. et al.	
	045	US-20160344828	11-24-2016	HAUSLER; Michael et al.	
	046	US-20160378720	12-29-2016	BACUS; Michael Patrick et al.	
	047	US-20170126835	05-04-2017	GOLUBEV; Fedor Anatolievich	
	048	US-20170185596	06-29-2017	SPIRER; Gary	
	049	US-20170262584	09-14-2017	GALLIX; Benoît et al.	
	050	US-20170325006	11-09-2017	MARCUS; Dwight	
	051	US-20180075525	03-15-2018	QIN; Mian et al.	
	052	US-20180096203	04-05-2018	KING; Martin T. et al.	
	053	US-20180137316	05-17-2018	FISCHER; Jeffrey	
	054	US-20180268253	09-20-2018	HOFFMAN; Raphael et al.	
	055	US-20190129929	05-02-2019	NEYLAN; Catherine W. et al.	
	056	US-20190259107	08-22-2019	HOLLIS; Richard B. et al.	
	057	US-20190286667	09-19-2019	PUZICHA; Jan et al.	
	058	US-20190286668	09-19-2019	PUZICHA; Jan et al.	
	059	US-20190347668	11-14-2019	WILLIAMS; Jared et al.	
	060	US-20200183553	06-11-2020	AL-SALLAMI; Wael et al.	

Examiner Signature		Date Considered	
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		Number-Kind Code ² (if known)			
	061	US-20200183555	06-11-2020	AL-SALLAMI; Wael et al.	
	062	US-20210019364	01-21-2021	GOVINDJEE; Anita et al.	
	063	US-20210090097	03-25-2021	FROMAN; Adam et al.	
	064	US-20210133670	05-06-2021	CELLA; Charles Howard et al.	
	065	US-20210182995	06-17-2021	CELLA; Charles Howard et al.	
	066	US-20210216579	07-15-2021	STELMAR NETTO; Marco Aurelio et al.	

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)				
	001	EP-3276506-A1	01-31-2018	TURTL SURF & IMMERSE LTD [GB]		☐

Examiner Signature		Date Considered	
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				Filing Date	07-24-2023
				First Named Inventor	MASON; Nicholas Kingsley
				Art Unit	2144
				Examiner Name	Unassigned
				Attorney Docket Number	56000-701.303
Sheet	5	of	7		

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
	001	Notice of Allowance dated 04/07/2022 for US Application No. 17/503,675.	☐
	002	Notice of Allowance dated 05/10/2023 for US Application No. 17/830,566.	☐
	003	Notice of Allowance dated 05/18/2022 for US Application No. 17/347,899.	☐
	004	Notice of Allowance dated 06/12/2023 for US Application No. 17/830,566.	☐
	005	Office action dated 12/22/2021 for US Application No. 17/347,899.	☐
	006	Office action dated 12/22/2021 for US Application No. 17/503,675.	☐

Examiner Signature		Date Considered	
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*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. This collection of information is required by 37 CFR 1.98. 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 2 hours 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, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**
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				Examiner Name	Unassigned
				Attorney Docket Number	56000-701.303
Sheet	6	of	7		

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement 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 information disclosure statement. See 37 CFR 1.97(e)(1).

OR

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.

- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

- ☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/elaine lee/	Date (YYYY-MM-DD)	2024-01-08
Name/Print	Elaine Lee	Registration Number	57,613

This collection of information is required by 37 CFR 1.97 and 1.98. 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 1 hour 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, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor:	MASON; Nicholas Kingsley	Group Art Unit:	2144
Serial Number:	18/357,451	Examiner:	Unassigned
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Title:	METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION		

FILED ELECTRONICALLY ON: January 8, 2024

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

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97

Commissioner for Patents:

An Information Disclosure Statement along with attached PTO/SB/08 is hereby submitted. A copy of each listed publication is submitted, if required, pursuant to 37 CFR §§1.97-1.98, as indicated below.

The Examiner is requested to review the information provided and to make the information of record in the above-identified application. The Examiner is further requested to initial and return the attached PTO/SB/08 in accordance with MPEP § 609.

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- AND
- ☐ The information disclosure statement submitted in the earlier application complied with paragraphs (a) through (c) of 37 CFR §1.98.

- I. ☒ *Fee Authorization.* The Commissioner is hereby authorized to charge the above-referenced fees of \$0.00 and charge any additional fees or credit any overpayment associated with this communication to Deposit Account No. 23-2415 (Docket No.56000-701.303).

Respectfully submitted,

WILSON SONSINI GOODRICH & ROSATI

Dated: January 8, 2024

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Title of Invention

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under 35 USC 111(a)

PATENT # -

CONFIRMATION # 6650

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FILING DATE 07/24/2023

CUSTOMER # 21971

FIRST NAMED INVENTOR Nicholas Kingsley Mason

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Elaine Lee

Documents

TOTAL DOCUMENTS: 9

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
56000-701_303_IDS.pdf	11	-	262 KB
56000-701_303_IDS-TRAN.LET.pdf	(1-4) 4	Transmittal Letter	149 KB
56000-701_303_IDS-IDS.pdf	(5-11) 7	Information Disclosure Statement (IDS) Form (SB08)	197 KB
FOR_EP3276506A1_EFS.pdf	9	Foreign Reference	512 KB
NPL_NOA-06-12-2023-US17830566.pdf	8	Other reference- Patent/Application/Search Documents	397 KB

NPL_NOA-04-07-2022-US17503675.pdf	10	Other reference-Patent/Application/Search Documents	499 KB
NPL_NOA-05-18-2022-US17347899.pdf	9	Other reference-Patent/Application/Search Documents	449 KB
NPL_NOA-05-10-2023-US17830566.pdf	16	Other reference-Patent/Application/Search Documents	1046 KB
NPL_OA-12-22-2021-US17347899.pdf	27	Other reference-Patent/Application/Search Documents	1059 KB
NPL_OA-12-22-2021-US17503675.pdf	27	Other reference-Patent/Application/Search Documents	1058 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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(54) **METHOD OF PROCESSING A BLOCK OF TEXT IN A WEB LAYOUT**

(57) A computer-implemented method of displaying a web page in a web browser, where the web page includes one or more blocks, each block including information about the content of the block and also the required vertical height of the block, the method including the processing of each block by carrying out the steps of:
rendering the content of the block in the browser;
determining the actual vertical height of the block as rendered in the browser
comparing the actual vertical height of the block with the required vertical height of the block;
if the difference between the actual and required vertical heights is not within a predetermined tolerance, making adjustments to display properties of the content of the block to alter the actual vertical height of the block.

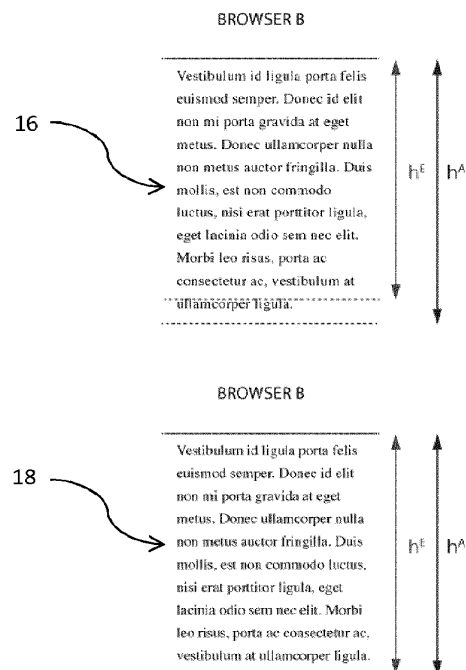


Figure 3

EP 3 276 506 A1

Description

[0001] The present invention relates to processing a block of text in a web layout to achieve a consistent display on a wide range of browsers and devices.

BACKGROUND TO THE INVENTION

[0002] HTML (Hypertext Markup Language) is designed to allow the definition of the content of web pages, which can then be displayed on multiple browsers. HTML also includes some ability to define aspects of the presentation of a page, although in the last 15 years at least this has been substantially supplanted by the use of CSS (Cascading Style Sheets) to define presentation, leaving HTML to define only content.

[0003] Whether or not presentation cues are included in HTML or accompanying CSS files for a particular web page, the actual appearance of a web page almost always varies to some extent between browsers. The rendering engine of the browser will make hundreds of decisions to determine, for example, the shape, height and width of each character. This is by design, and it allows the user reading the web page to exercise some level of control over the appearance to suit his personal needs or preferences. For example, he may use the 'zoom' tool on the browser to increase or reduce the text size, or adjust the display colours for higher contrast. The browser will also take account of the size of the screen or window to display the web page appropriately on the device.

[0004] This system, where content is defined by the author and presentation is left (to some extent) with the reader, subject to presentational 'cues' from the author, generally works well on traditional 'scrolling' websites where content flows down the page until it has all been displayed. However, with more complex types of layout, problems arise. For example, in a multi-column layout it may be important for all of a particular block of text to start and end in the first column. It would ruin the layout if this block of text were to spill into the next column. This is because all subsequent elements will have to move, causing unintended and ugly rendering. However, it is difficult to control the vertical height of blocks of text because the width of characters in particular is generally determined by the rendering engine of the browser. If one browser sets the character width slightly wider than another, then the text will flow onto more lines and the block of text will require more vertical space.

[0005] Of course, it is possible to use alternative technologies to specify layouts of pages, or parts of pages, exactly. A simple way of doing this is to present the page as an image. At one time it was reasonably common to use Adobe (RTM) Flash to create whole web sites where the presentation as well as the content was exactly defined. However, these techniques have serious drawbacks. Firstly, they reduce the ability of the user and the user's browser to control the layout of the page to such an extent that beneficial changes, for example to take

account of the screen size or user's needs, cannot be made. They may also prevent ordinary browser tools such as the 'forward' and 'back' navigation buttons, bookmarks, searching within a page, printing, etc. from working correctly.

[0006] Another technique which has been used to try to ensure consistent layout across a range of browsers is to test the web page in multiple browsers, and add browser-specific presentation cues to the web page. For example, the web server may be configured to send one style sheet in response to requests from the Internet Explorer (RTM) web browser, and another slightly different style sheet in response to requests from the Firefox (RTM) web browser. Alternatively browser detection and choice of presentation properties may be done using JavaScript running on the web page. However, this technique relies on manually determining multiple configurations for different browsers, which is time-consuming and tedious. The result is also not very comprehensive, because there is inevitably a limit to the number of different browsers and versions of browsers which can reasonably be accounted for. New browsers and versions will require this work to be repeated.

[0007] It is an object of the present invention to control the vertical space taken up by parts of a web page, whilst retaining the ordinary controls and accessibility available with HTML / CSS web pages.

SUMMARY OF THE INVENTION

[0008] According to the present invention, there is provided a computer-implemented method of displaying a web page in a web browser, the web page including one or more blocks, each block including information about the content of the block and also the required vertical height of the block; the method including processing each block by carrying out the steps of:

rendering the content of the block in the browser;

determining the actual vertical height of the block as rendered in the browser;

comparing the actual vertical height of the block with the required vertical height of the block;

if the actual and required vertical height are not within a predetermined tolerance, making adjustments to display properties of the content of the block to alter the actual vertical height of the block.

[0009] The required vertical height of the block may be defined and stored within the web page source in absolute or relative terms, for example, it may be given as a number of pixels or millimetres, or may be defined as a percentage of the screen or window height.

[0010] Each block is rendered in the usual way by the

browser, taking into account any presentation cues provided in the page source, most likely as part of a CSS style sheet. The actual vertical height of the block as rendered will depend on the presentation cues on the web page, and also to some extent on the rendering engine and browser being used, and the settings of that browser. When the block is rendered the actual vertical height is determined. This is compared against the required vertical height of the block as stored in the web page, and if the actual and required vertical heights do not match (within the predetermined tolerance) then display properties are adjusted to bring the actual height in line with the vertical height. The display properties which are adjusted may include, for example, combinations of letter spacing, word spacing and font size. The adjustments are preferably made iteratively, on a small scale which will usually be undetectable to most users. For example, if the comparison identifies that the actual height of the block is too large, then the letter spacing may be reduced by, say, 2 pixels. The actual height is then measured again and the comparison is made. If the block is still too large, then another change could be made, for example reducing the font size very slightly. The iterative process of adjustment and re-measurement ensures that only minimal changes are made to the display properties of the block in order to adjust its vertical height correctly. Small changes to multiple properties may be made, which may be less noticeable than making a larger change to a single property. For example, reducing both the character spacing and line spacing by a small amount may be enough to reduce the actual vertical height to the required vertical height, but less noticeable than reducing the line spacing alone by a larger amount.

[0011] The process of measuring the actual vertical height of a block, making the comparison and (iteratively) making changes to display properties is preferably implemented by JavaScript embedded in the web page.

[0012] Preferably, the required height of the block is given in the height property of the block. The process of measuring the actual height of the block and comparing it with the required height may include the steps of comparing the actual height of the block (the scrollHeight property) to the required height to detect if the block is too tall (i.e. the scrollHeight is greater than the height property). If the block is not too tall then the process may further include the step of removing the height property from the block (having first saved its value for later recall), and then comparing the actual height of the block (the scrollHeight property) to the required height to detect if the block is too short.

[0013] A web page can be assembled in the usual way, using any one of the wide variety of available web design packages, setting the height property for each element to achieve the desired layout. JavaScript can then be added to the page which effectively enforces the height property applied to each block as an exact height of the block, with text filling the block. This is in contrast to the known use of the height property, which defines the

height of the block, but no guarantee that text will fill the block, or that the text will all fit within the block.

[0014] When a measurement is made of the actual height of the block (for example by reading the scrollHeight property from the browser), the result may preferably be rounded to the nearest multiple of the height of a line of text. The height of a line of text can be obtained separately from the browser. Rounding the block height to the nearest multiple of the line height ensures consistent reporting of the block height, despite different browsers measuring block height in different ways.

[0015] Preferably, required heights are automatically adjusted in response to the zoom control of the browser being adjusted. For example, if the zoom control is set at 50% (i.e. to make the text size 50% smaller), then all required heights will be adjusted to make them 50% smaller as well. This ensures that the layout is preserved when the text size is changed by the user with the browser's zoom control.

[0016] The required vertical height of a block is embedded in the web page source when it is created. Preferably, this is done automatically using layout software which allows the author to set up the layout on the screen in the same way as a 'what-you-see-is-what-you-get' desktop publishing package. The author sets up the layout, and the height of each block of text as seen by the author on their screen is recorded and stored in the web page source. Preferably, this is done by setting the height property of each block.

[0017] It is envisaged that the invention is primarily useful to control the height of blocks of text, or blocks containing mostly text, although some embodiments may be applicable to blocks consisting of or containing other types of content, for example equations or tables. The vertical height may be stored and measured, and display properties may be adjusted, in a similar way.

[0018] The invention allows normalisation of the height of each block across all browsers and devices. It makes it possible to design multiple-column layouts for web pages, which display consistently across a range of browsers without having to hard-code different instructions for different browsers, and without making ordinary user-adjustments provided by the browser unavailable.

DESCRIPTION OF THE DRAWINGS

[0019] For a better understanding of the present invention, and to show more clearly how it may be carried into effect, a preferred embodiment will now be described with reference to the accompanying drawings, in which:

Figure 1 shows a block of text, part of a web page, as it is laid out by the page author;

Figure 2 shows the block of text as rendered in first and second web browsers;

Figure 3 shows the block of text as rendered by the

second web browser after each of two consecutive iterations of the adjustment step in the method of the invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0020] Referring firstly to Figure 1, an example block of text is indicated at 10. The block of text 10 forms part of a web page, which is being designed by an author in 'what-you-see-is-what-you-get' layout software. The layout software allows the author to set the height h of the block of text, bearing in mind the overall layout of the web page and the other elements on the page. The required height h of the block of text is then stored, along with the content of the block, as part of the page source. The page source as generated and stored by the layout software also includes JavaScript code which automatically runs in client browsers when the web page is displayed. The JavaScript code carries out the steps of the method of the invention as described below.

[0021] When the page is first downloaded by a browser, the block of text is rendered in the usual way. Although the page source may include various presentational cues, the rendering of the block of text will vary to some degree depending on the browser being used.

[0022] In particular, the height property will be used by the browser to set the height of each block, but the text within the block may not always fill the block, i.e. the text may be too short. On the other hand, if the text is too long to fit in the block then the text will 'overflow' the block.

[0023] In Figure 2, two slightly different renderings of the same block are shown side-by-side. Browser A's rendering 12, on the left, has resulted in a slightly shorter actual vertical height h^A than Browser B's rendering 14, on the right. This is because of slight differences in character spacing, line spacing, font size, and hyphenation practice between Browser A and Browser B. Once the page has been loaded and rendered, the JavaScript code embedded in the page runs, and initially queries the browser to determine the actual vertical height h^A of the block of text. The actual vertical height h^A is determined by reading the scrollHeight property of the block from the browser. If the scrollHeight property is larger than the height property, then the block is too tall. Otherwise, the height property will be removed from the block, causing it to shrink to the height of its contents, and then scrollHeight read again. If scrollHeight is shorter than the required height, then the block is too short.

[0024] The JavaScript code carries out a comparison between the 'measured' actual height h^A and the required / 'expected' height h^E which is defined in the page source. In the case of Browser A in this example, h^A is the same as h^E and therefore no adjustment is necessary. However, in the case of Browser B, h^A is substantially (more than the predetermined tolerance threshold) greater than h^E and therefore the adjustment step will have to be carried out.

[0025] Note that h^A is said to be the same as h^E if h^A

rounded to the nearest multiple of the line height is the same as h^E . The line height can be determined from the browser separately.

[0026] Small adjustments to properties of the text in the block are made iteratively in order to reduce h^A so that it is within the predetermined tolerance margin when compared with h^E . First, the letter spacing is reduced by 2 pixels and the block re-rendered. The re-rendered block 16 is shown in Figure 3. The measurement of the actual height h^A of the block is carried out on the re-rendered block 16, and the comparison with the required height h^E is made. In this case, despite the adjustment, h^A is still substantially greater than h^E . The adjustment and re-measurement step is therefore iterated again. In this example the adjustment is a further reduction in letter spacing by 2 pixels, but in different embodiments the adjustments in each iteration may not necessarily be the same. For example, it may be better to make small changes to each of line spacing, letter spacing, and font size than it is to make a relatively large change only to letter spacing. The adjustment may be chosen based on one or more rules to prioritise the types of changes. For example, a rule may state that the letter spacing will never be changed by an overall amount of more than 4 pixels. If the actual height of the block of text is still too large when the letter spacing has been reduced by a total of 4 pixels, another adjustment will have to be made in the next iteration, for example a reduction to the font size.

[0027] The invention allows a multi-column layout to be reliably displayed on a wide range of web browsers and devices, whilst still sending standard HTML to the browser and not relying on technologies which unacceptably hinder the user's ability to customise the display and use accessibility tools. In particular, the invention allows for a wide range of different layouts, other than the traditional vertically-scrolling layout. For example, a layout which scrolls horizontally, like turning the pages of a book, can be reliably implemented by accurately controlling the vertical size of blocks of text.

[0028] The embodiments described above are provided by way of example only, and various changes and modifications will be apparent to persons skilled in the art without departing from the scope of the present invention as defined by the appended claims.

Claims

1. A computer-implemented method of displaying a web page in a web browser,

the web page including one or more blocks, each block including information about the content of the block and also the required vertical height of the block,

the method including the processing of each block by carrying out the steps of:

- rendering the content of the block in the browser;
determining the actual vertical height of the
block as rendered in the browser
comparing the actual vertical height of the block
with the required vertical height of the block;
if the difference between the actual and required
vertical heights is not within a predetermined tol-
erance, making adjustments to display proper-
ties of the content of the block to alter the actual
vertical height of the block.
2. A method of displaying a web page in a web browser
as claimed in claim 1, in which the required height
is stored in the *height* property of the block and in
which determining the actual vertical height of the
block and comparing it to the required vertical height
of the block comprises the steps of:
- reading the *scrollHeight* property of the block
from the browser;
comparing the *scrollHeight* property to the
height property, and if the *scrollHeight* property
is greater than the *height* property then deter-
mining that the block is too tall; otherwise
removing the *height* property from the block;
reading the *scrollHeight* property of the block
from the browser;
comparing the *scrollHeight* property and the re-
quired height, and if the *scrollHeight* property is
smaller than the required height then determin-
ing that the block is too short.
3. A method of displaying a web page in a web browser
as claimed in any of claims claim 1 or claim 2, in
which the height of a line of text in the block is de-
termined from the browser, and the measured actual
vertical height is rounded to the nearest multiple of
the line height before being compared with the re-
quired block height.
4. A method of displaying a web page in a web browser
as claimed in any of claims 1 to 3, in which the display
properties which are adjusted include letter spacing.
5. A method of displaying a web page in a web browser
as claimed in any of the preceding claims, in which
the display properties which are adjusted include
word spacing.
6. A method of displaying a web page in a web browser
as claimed in any of the preceding claims, in which
the display properties which are adjusted include font
size.
7. A method of displaying a web page in a web browser
as claimed in any of the preceding claims, in which
the display properties which are adjusted include
more than one of letter spacing, word spacing and
- font size.
8. A method of displaying a web page in a web browser
as claimed in any of the preceding claims, in which
the steps of rendering, determining actual height,
comparing and adjusting are carried out iteratively
until the actual height is within the predetermined
tolerance of the required height.
9. A method of displaying a web page in a web browser
as claimed in claim 8, in which a different display
property is adjusted on each iteration of the method.
10. An apparatus comprising means adapted to perform
the method of any preceding claim.
11. A program for controlling an apparatus to perform a
method as claimed in any of claims 1 to 9, carried
on a carrier medium such as a storage medium or a
transmission medium.
12. A method substantially as described herein, with ref-
erence to and as illustrated in Figures 1 to 3 of the
accompanying drawings.

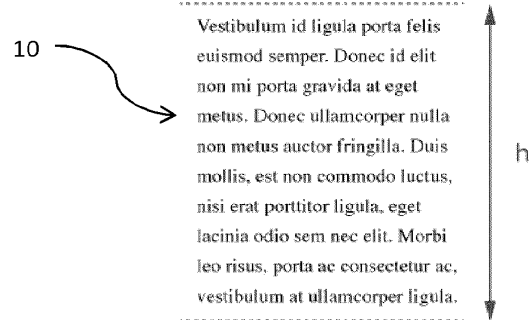


Figure 1

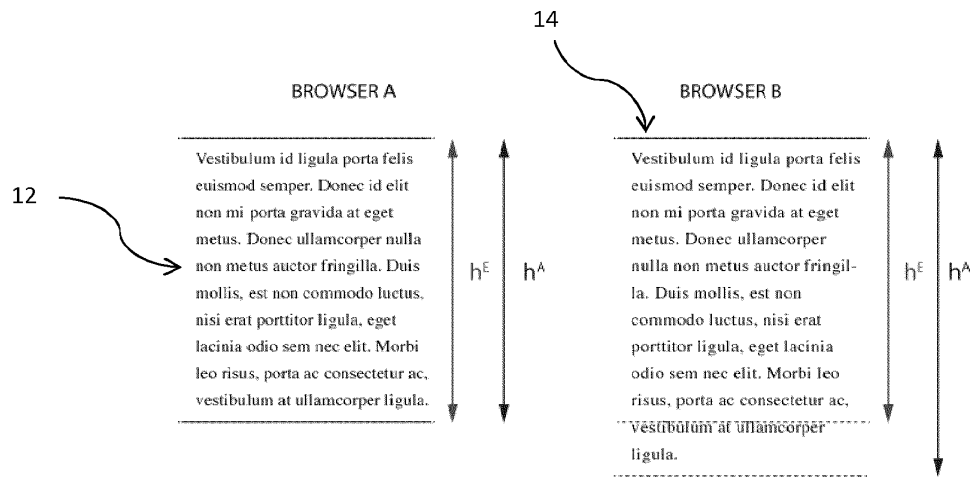


Figure 2

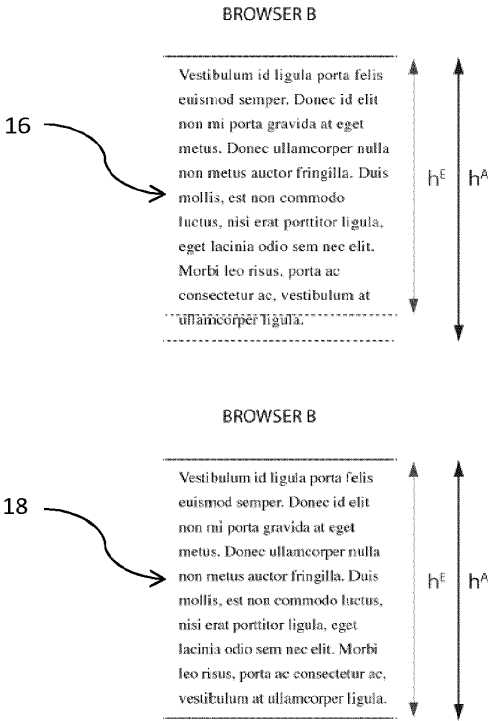


Figure 3



EUROPEAN SEARCH REPORT

 Application Number
EP 17 16 9501

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	Ben Clarke: "Fit text container Fiddle", 12 January 2016 (2016-01-12), XP055420766, Retrieved from the Internet: URL:https://web.archive.org/web/20160112041837/http://jsfiddle.net:80/LrCFY/3 [retrieved on 2017-11-01] * "HTML" * * "Javascript" * * "CSS" *	1-12	INV. G06F17/30
A	Anonymous: "Height properties", 21 February 2015 (2015-02-21), XP055420909, Retrieved from the Internet: URL:https://web.archive.org/web/20150221032820/http://www.webdeveloper.com/forum/showthread.php?171659-offsetHeight-clientHeight-what-about-height [retrieved on 2017-11-01] * page 1 *	2	
A	Simon Pascal Klein: "Tracking - CSS letter-spacing and Where to Use It", 12 June 2014 (2014-06-12), XP055421488, Retrieved from the Internet: URL:https://web.archive.org/web/20140612023812/https://www.sitepoint.com/tracking-css-letter-spacing-and-where-to-use-it/ [retrieved on 2017-11-03] * page 1 - paragraph 1 * * "The letter-spacing property" *	4,5,7,9	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 9 November 2017	Examiner Martínez Espuche, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons * : member of the same patent family, corresponding document	

EPO FORM 1503 03.82 (P04C01)

page 1 of 2



EUROPEAN SEARCH REPORT

Application Number
EP 17 16 9501

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	W3schools.Com: "CSS Reference", 2 July 2011 (2011-07-02), XP055421481, Retrieved from the Internet: URL:https://web.archive.org/web/2011070201 1619/https://www.w3schools.com/cssref/default.asp [retrieved on 2017-11-03] * "Font Properties"; page 3 * * "Text Properties"; page 6 * -----	4,5,7,9	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 9 November 2017	Examiner Martínez Espuche, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/357,451	07/24/2023	Nicholas Kingsley Mason	56000-701.303

CONFIRMATION NO. 6650

21971

WILSON SONSINI GOODRICH & ROSATI
650 PAGE MILL ROAD
PALO ALTO, CA 94304-1050

PUBLICATION NOTICE



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Date Mailed: 03/15/2024

Title:METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Publication No.US-2024-0086614-A1

Publication Date:03/14/2024

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A PRIOR PATENT

APPLICATION # 18357451	FILING DATE 07/24/2023	FIRST NAMED INVENTOR Nicholas Mason	ATTORNEY DOCKET # 56000-701.303
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Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION



Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action



This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

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Turtl Surf & Immerse Limited	100%
Total	100%

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Application #	Filing Date
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Patent #
11755816
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I certify, in accordance with 37 CFR 1.4(d)(4) that I am: An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application

Signature	Name	Registration #
/Michael A. Rizzuto/	Michael Rizzuto	81388

* Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP 324.



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APPROVAL LETTER

APPLICATION #
18/357,451

FILING DATE
07/24/2023

APPLICANT/PATENT UNDER REEXAMINATION
Nicholas Mason

Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Electronic terminal disclaimer filed on 07/11/2024

☒ **Approved**

This patent is subject to a Terminal Disclaimer

Approved / Disapproved by: Electronic Terminal Disclaimer automatically approved



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APPLICATION #
18/357,451

RECEIPT DATE / TIME
07/11/2024 03:36:42 PM Z ET

ATTORNEY DOCKET #
56000-701.303

Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Application Information

APPLICATION TYPE Utility - Nonprovisional Application
under 35 USC 111(a)

PATENT # -

CONFIRMATION # 6650

FILED BY Joan Abriam

PATENT CENTER # 66308424

FILING DATE 07/24/2023

CUSTOMER # 21971

FIRST NAMED INVENTOR Nicholas Kingsley Mason

CORRESPONDENCE ADDRESS -

AUTHORIZED BY Elaine Lee

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
petition-requestL.pdf	3	Terminal Disclaimer-Filed (Electronic)	49 KB
grantLetter.pdf	1	Terminal Disclaimer-Electronic- Approved	19 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
petition-requestL.pdf	C686B87E6BCA63BAC35E11904235A671692455FAE033D1D11 ED6EDE1578AC1B0B5B8DB7AC93B507873CCE19FFA62FC8D

D013C5E75C7C285DB945D1ACECBA3B75

grantLetter.pdf

CE798151575F1979B1E23E6AF92A636BF5262A8B1E53A165FF
96F49DB8D1C41D03973C277984B0D9818BE6C560E488C11AD
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Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	6650	FILED BY	Joan Abriam
PATENT CENTER #	66308424	AUTHORIZED BY	Elaine Lee
CUSTOMER #	21971	FILING DATE	07/24/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nicholas Kingsley Mason

Payment Information

PAYMENT METHOD DA / 232415	PAYMENT TRANSACTION ID E20247AF39438827	PAYMENT AUTHORIZED BY Michael Rizzuto
PRE-AUTHORIZED ACCOUNT 232415	PRE-AUTHORIZED CATEGORY 37 CFR 1.16 (National application filing, search, and examination fees); 37 CFR 1.17 (Patent application and reexamination processing fees); 37 CFR 1.19 (Document supply fees); 37 CFR 1.20 (Post issuance fees); 37 CFR 1.21 (Miscellaneous fees and charges)	

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	170.00	1	170.00
TOTAL AMOUNT:				\$170.00

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<i>Examiner-Initiated Interview Summary</i>	Application No. 18/357,451	Applicant(s) Mason, Nicholas Kingsley		
	Examiner HASSAN MRABI	Art Unit 2176	AIA (First Inventor to File) Status Yes	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
HASSAN MRABI	Primary Examiner	Telephonic
Shuaimin Liu	Attorney	

Date of Interview: 10 July 2024

Issues Discussed:

Proposed Amendment(s)

The applicant approved the examiner's amendment.

Non-statutory Double Patenting

The applicant agreed to submit TD.

/HASSAN MRABI/ Examiner, Art Unit 2176	
Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04 Please further see: MPEP 713.04 Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b) 37 CFR § 1.2 Business to be transacted in writing	

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Notice of References Cited	Application/Control No. 18/357,451		Applicant(s)/Patent Under Reexamination Mason, Nicholas Kingsley	
	Examiner HASSAN MRABI		Art Unit 2176	Page 1 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-20110029858-A1	2011-02-03	Hauser; Eduardo A.	G06Q30/02	715/234
*	B	US-20210090097-A1	2021-03-25	Froman; Adam	G06Q30/0201	1/1
*	C	US-20160275453-A1	2016-09-22	Powers; Frederick A.	G06F3/0483	1/1
*	D	US-20160321589-A1	2016-11-03	Powers; Frederick A.	G06Q10/0633	1/1
*	E	US-20170262584-A1	2017-09-14	GALLIX; Benoît	G06N20/00	1/1
*	F	US-20100205032-A1	2010-08-12	Nielsen; Steven	G06Q10/06	715/702
*	G	US-20030176931-A1	2003-09-18	Pednault, Edwin Peter Dawson	G06N7/01	700/44
*	H	US-10402064-B1	2019-09-03	Al-Sallami; Wael	G06F40/186	1/1
*	I	US-20200183555-A1	2020-06-11	Al-Sallami; Wael	G06F16/9535	1/1
*	J	US-20200183553-A1	2020-06-11	Al-Sallami; Wael	G06F16/958	1/1
*	K	US-20150040006-A1	2015-02-05	Gentile; Antonio	G06F40/166	715/708
*	L	US-20130191708-A1	2013-07-25	Song; Young-Joo	H04L67/53	715/202
*	M	US-20130151955-A1	2013-06-13	Williams; Mechell	G06F40/166	715/255

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
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	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
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PTO-892 (Rev. 11-2023)

Notice of References Cited

Part of Paper No. 20240713

Notice of References Cited	Application/Control No. 18/357,451		Applicant(s)/Patent Under Reexamination Mason, Nicholas Kingsley	
	Examiner HASSAN MRABI		Art Unit 2176	Page 2 of 5

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-9910663-B1	2018-03-06	Biear; Mary	G06F8/65	1/1
*	B	US-8924516-B2	2014-12-30	Sanghavi; Mehul K.	G06Q30/0241	705/14.54
*	C	US-20170185596-A1	2017-06-29	Spirer; Gary	G06F40/134	1/1
*	D	US-20150286742-A1	2015-10-08	Zhang; Guannan	G06Q30/0277	715/252
*	E	US-20160062576-A1	2016-03-03	Simon; Todd	G06F3/0482	715/731
*	F	US-20140040263-A1	2014-02-06	Sherman; Yahali	G06F16/24564	707/E17.089
*	G	US-9715482-B1	2017-07-25	Bjorkegren; Michael Erik Carl	G06F3/04855	1/1
*	H	US-20210182995-A1	2021-06-17	CELLA; Charles Howard	G06Q10/103	1/1
*	I	US-20140301977-A1	2014-10-09	Nadarajah; Deepa	C07K1/16	530/391.1
*	J	US-10497401-B1	2019-12-03	Liang; Jason	G11B5/00817	1/1
*	K	US-10475477-B1	2019-11-12	Biskeborn; Robert G.	G11B5/00813	1/1
*	L	US-20160344828-A1	2016-11-24	Häusler; Michael	H04L67/1044	1/1
*	M	US-20180137316-A1	2018-05-17	Fischer; Jeffrey	G06K19/071	1/1

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*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N					
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U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-20180096203-A1	2018-04-05	King; Martin T.	G06F40/109	1/1
*	B	US-20180075525-A1	2018-03-15	Qin; Mian	G06Q20/102	1/1
*	C	US-20210133670-A1	2021-05-06	CELLA; Charles Howard	G06N3/044	1/1
*	D	US-20160188556-A1	2016-06-30	Li; Yun	G06F40/123	715/234
*	E	US-20130046616-A1	2013-02-21	Williams; Dale	G06Q30/0251	705/14.57
*	F	US-10977431-B1	2021-04-13	Burke; John	G06F40/166	1/1
*	G	US-20210216579-A1	2021-07-15	Stelmar Netto; Marco Aurelio	G06N5/022	1/1
*	H	US-20210019364-A1	2021-01-21	GOVINDJEE; ANITA	G06F16/34	1/1
*	I	US-20190129929-A1	2019-05-02	NEYLAN; Catherine W.	G06F3/0483	1/1
*	J	US-20170126835-A1	2017-05-04	GOLUBEV; Fedor Anatolievich	H04L67/52	1/1
*	K	US-20160378720-A1	2016-12-29	Bacus; Michael Patrick	G06F40/103	715/251
*	L	US-20160306774-A1	2016-10-20	Flores; Christina I.	G06F40/166	1/1
*	M	US-20160306792-A1	2016-10-20	Flores; Christina I.	G06F40/166	1/1

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*	A	US-20150081611-A1	2015-03-19	Shivakumar; Shailesh Kumar	G06F40/103	706/46
*	B	US-20130031470-A1	2013-01-31	Daly, JR.; Timothy P.	G06F40/103	715/243
*	C	US-20090043755-A1	2009-02-12	Faris; Andrew Boath	G06F40/103	707/999.005
*	D	US-10783315-B2	2020-09-22	Yoo; Dong Hwi	H04L51/18	1/1
*	E	US-10318553-B2	2019-06-11	Baum; Michael Joseph	G06F9/54	1/1
*	F	US-8219914-B2	2012-07-10	Rauber; Nicolas	G06F16/9038	715/730
*	G	US-20090076834-A1	2009-03-19	Rauber; Nicolas	G06F16/9038	709/202
*	H	US-20160232137-A1	2016-08-11	Liu; Eric HC	H04J3/0623	1/1
*	I	US-20150212997-A1	2015-07-30	Kassim; Yousef	G06Q50/18	715/226
*	J	US-20190286668-A1	2019-09-19	Puzicha; Jan	G06F40/166	1/1
*	K	US-20190286667-A1	2019-09-19	Puzicha; Jan	G06V10/993	1/1
*	L	US-9928230-B1	2018-03-27	Jain; Neeta	G06F40/186	1/1
*	M	US-20160232131-A1	2016-08-11	Liu; Eric HC	G06F40/103	1/1

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*	A	US-20120159300-A1	2012-06-21	Vincent, III; Winchel Todd	G06F40/166	715/222
*	B	US-20040135805-A1	2004-07-15	Gottsacker, Neal F.	G06F40/103	715/751
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<i>Index of Claims</i> 	Application/Control No. 18/357,451	Applicant(s)/Patent Under Reexamination Mason, Nicholas Kingsley
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✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS									
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☒ T.D. ☐ R.1.47									
CLAIM		DATE							
Final	Original	07/13/2024							
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1	2	=							
	3	-							
2	4	=							
3	5	=							
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17	20	=							
18	21	=							

<i>Search Notes</i> 	Application/Control No. 18/357,451	Applicant(s)/Patent Under Reexamination Mason, Nicholas Kingsley
	Examiner HASSAN MRABI	Art Unit 2176

CPC - Searched*		
Symbol	Date	Examiner
G06F40/103 OR G06F16/24564 OR G06F40/134 OR G06F40/166 OR G06F40/106 OR G06F40/186 OR G06F40/131	07/13/2024	/HM/

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
EAST Search (See attached) - US PGPUB, USPAT, USOCR, FPRS, EPO, JPO, DERWENT, IBM_TDB	07/13/2024	/HM/
Inventor Name -PALM	07/13/2024	/HM/
Double Patenting	07/13/2024	/HM/
ip.com search	07/13/2024	/HM/
google search	07/13/2024	/HM/

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	Examiner HASSAN MRABI	Art Unit 2176

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
G06F16	9535 with limited text search	07/13/2024	/HM/
715	234 with limited text search	07/13/2024	/HM/

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Issue Classification 	Application/Control No. 18/357,451	Applicant(s)/Patent Under Reexamination Mason, Nicholas Kingsley
	Examiner HASSAN MRABI	Art Unit 2176

CPC						
Symbol					Type	Version
G06F	/	40	/	103	F	2020-01-01
G06F	/	40	/	166	I	2020-01-01
G06F	/	16	/	24564	I	2019-01-01
G06F	/	40	/	134	I	2020-01-01

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Symbol	Type	Set	Ranking	Version
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NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	18
/HASSAN MRABI/ Examiner, Art Unit 2176	13 July 2024	O.G. Print Claim(s)
(Primary Examiner)	(Date)	O.G. Print Figure
		1
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Issue Classification 	Application/Control No. 18/357,451	Applicant(s)/Patent Under Reexamination Mason, Nicholas Kingsley
	Examiner HASSAN MRABI	Art Unit 2176

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F		16	9535

NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	18	
/HASSAN MRABI/ Examiner, Art Unit 2176	13 July 2024	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1

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CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
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6	8	14	17												
7	9	15	18												

NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	18
/HASSAN MRABI/ Examiner, Art Unit 2176	13 July 2024	O.G. Print Claim(s)
(Primary Examiner)	(Date)	1
		O.G. Print Figure
		1

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		Application Number	18/357,451		
		Filing Date	07-24-2023		
		First Named Inventor	MASON; Nicholas Kingsley		
		Art Unit	2144		
		Examiner Name	Unassigned/HASSAN MRABI/		
Sheet	1	of	7	Attorney Docket Number	56000-701.303

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	001	US-8219914	07-10-2012	RAUBER; Nicolas et al.	
	002	US-8752086	06-10-2014	CONANT; Carson Victor	
	003	US-8924516	12-30-2014	SANGHAVI; Mehul K. et al.	
	004	US-9715482	07-25-2017	BJORKEGREN; Michael Erik Carl	
	005	US-9727618	08-08-2017	SHARP; Oliver et al.	
	006	US-9792270	10-17-2017	KLOIBER; Daniel J. et al.	
	007	US-9910663	03-06-2018	BIEAR; Mary	
	008	US-9928230	03-27-2018	JAIN; Neeta et al.	
	009	US-10318553	06-11-2019	BAUM; Michael Joseph et al.	
	010	US-10402064	09-03-2019	AL-SALLAMI; Wael et al.	
	011	US-10475477	11-12-2019	BISKEBORN; Robert G.	
	012	US-10497401	12-03-2019	LIANG; Jason et al.	
	013	US-10783315	09-22-2020	YOO; Dong Hwi et al.	
	014	US-10977431	04-13-2021	BURKE; John	
	015	US-11361144	06-14-2022	MASON; Nicholas Kingsley	
	016	US-11379651	07-05-2022	MASON; Nicholas Kingsley	
	017	US-11755816	09-12-2023	MASON; Nicholas Kingsley	
	018	US-20030176931	09-18-2003	PEDNAULT; Edwin Peter Dawson et al.	
	019	US-20040015408	01-22-2004	RAUEN, IV; Philip Joseph et al.	
	020	US-20040135805	07-15-2004	GOTTSACKER; Neal et al.	

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		First Named Inventor	MASON; Nicholas Kingsley		
		Art Unit	2144		
		Examiner Name	Unassigned /HASSAN MRABI/		
Sheet	2	of	7	Attorney Docket Number	56000-701.303

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		Number-Kind Code ² (if known)			
	021	US-20090043755	02-12-2009	FARIS; Andrew Boath et al.	
	022	US-20090076834	03-19-2009	RAUBER; Nicolas et al.	
	023	US-20100205032	08-12-2010	NIELSEN; Steven et al.	
	024	US-20110029858	02-03-2011	HAUSER; Eduardo A.	
	025	US-20120159300	06-21-2012	VINCENT, III; Winchel Todd	
	026	US-20130031470	01-31-2013	DALY, Jr.; Timothy P. et al.	
	027	US-20130046616	02-21-2013	WILLIAMS; Dale et al.	
	028	US-20130151955	06-13-2013	WILLIAMS; Mechell	
	029	US-20130191708	07-25-2013	SONG; Young-Joo	
	030	US-20140040263	02-06-2014	SHERMAN; Yahali et al.	
	031	US-20140278758	09-18-2014	CHRISTIANSEN; Bradley et al.	
	032	US-20140301977	10-09-2014	NADARAJAH; Deepa et al.	
	033	US-20150040006	02-05-2015	GENTILE; Antonio	
	034	US-20150081611	03-19-2015	SHIVAKUMAR; Shailesh Kumar	
	035	US-20150212997	07-30-2015	KASSIM; Yousef et al.	
	036	US-20150286742	10-08-2015	ZHANG; Guannan et al.	
	037	US-20160062576	03-03-2016	SIMON; Todd	
	038	US-20160188556	06-30-2016	LI; Yun	
	039	US-20160232131	08-11-2016	LIU; Eric Hc et al.	
	040	US-20160232137	08-11-2016	LIU; Eric Hc	

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	041	US-20160275453	09-22-2016	POWERS; Frederick A. et al.	
	042	US-20160306774	10-20-2016	FLORES; Christina I. et al.	
	043	US-20160306792	10-20-2016	FLORES; Christina I. et al.	
	044	US-20160321589	11-03-2016	POWERS; Frederick A. et al.	
	045	US-20160344828	11-24-2016	HAUSLER; Michael et al.	
	046	US-20160378720	12-29-2016	BACUS; Michael Patrick et al.	
	047	US-20170126835	05-04-2017	GOLUBEV; Fedor Anatolievich	
	048	US-20170185596	06-29-2017	SPIRER; Gary	
	049	US-20170262584	09-14-2017	GALLIX; Benoît et al.	
	050	US-20170325006	11-09-2017	MARCUS; Dwight	
	051	US-20180075525	03-15-2018	QIN; Mian et al.	
	052	US-20180096203	04-05-2018	KING; Martin T. et al.	
	053	US-20180137316	05-17-2018	FISCHER; Jeffrey	
	054	US-20180268253	09-20-2018	HOFFMAN; Raphael et al.	
	055	US-20190129929	05-02-2019	NEYLAN; Catherine W. et al.	
	056	US-20190259107	08-22-2019	HOLLIS; Richard B. et al.	
	057	US-20190286667	09-19-2019	PUZICHA; Jan et al.	
	058	US-20190286668	09-19-2019	PUZICHA; Jan et al.	
	059	US-20190347668	11-14-2019	WILLIAMS; Jared et al.	
	060	US-20200183553	06-11-2020	AL-SALLAMI; Wael et al.	

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	18/357,451
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Filing Date	07-24-2023
				First Named Inventor	MASON; Nicholas Kingsley
				Art Unit	2144
				Examiner Name	Unassigned /HASSAN MRABI/
Sheet	4	of	7	Attorney Docket Number	56000-701.303

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	061	US-20200183555	06-11-2020	AL-SALLAMI; Wael et al.	
	062	US-20210019364	01-21-2021	GOVINDJEE; Anita et al.	
	063	US-20210090097	03-25-2021	FROMAN; Adam et al.	
	064	US-20210133670	05-06-2021	CELLA; Charles Howard et al.	
	065	US-20210182995	06-17-2021	CELLA; Charles Howard et al.	
	066	US-20210216579	07-15-2021	STELMAR NETTO; Marco Aurelio et al.	

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)				
	001	EP-3276506-A1	01-31-2018	TURTL SURF & IMMERSE LTD [GB]		☐

Examiner Signature	/HASSAN MRABI/	Date Considered	07/13/2024
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete if Known		
			Application Number	18/357,451	
			Filing Date	07-24-2023	
			First Named Inventor	MASON; Nicholas Kingsley	
			Art Unit	2144	
			Examiner Name	Unassigned /HASSAN MRABI/	
Sheet	5	of	7	Attorney Docket Number	56000-701.303

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
	001	Notice of Allowance dated 04/07/2022 for US Application No. 17/503,675.	☐
	002	Notice of Allowance dated 05/10/2023 for US Application No. 17/830,566.	☐
	003	Notice of Allowance dated 05/18/2022 for US Application No. 17/347,899.	☐
	004	Notice of Allowance dated 06/12/2023 for US Application No. 17/830,566.	☐
	005	Office action dated 12/22/2021 for US Application No. 17/347,899.	☐
	006	Office action dated 12/22/2021 for US Application No. 17/503,675.	☐

Examiner Signature	/HASSAN MRABI/	Date Considered	07/13/2024
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	18/357,451		
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		First Named Inventor	MASON; Nicholas Kingsley		
		Art Unit	2144		
		Examiner Name	Unassigned /HASSAN MRABI/		
Sheet	6	of	7	Attorney Docket Number	56000-701.303

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement 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 information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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- ☐ See attached certification statement.

- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

- ☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/elaine lee/	Date (YYYY-MM-DD)	2024-01-08
Name/Print	Elaine Lee	Registration Number	57,613

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Search Term 1

(generate OR create OR produce OR build OR compose OR provide OR construct OR facilitate OR compile OR) NEAR (derivative derived) AND (document content item element object data information) AND (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data);

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Search Term 1

(generate OR create OR produce OR build OR compose OR provide OR construct OR facilitate OR compile OR) NEAR (derivative derived) AND (document content item element object data information) AND (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data);

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Search Term 1

(generate OR create OR produce OR build OR compose OR provide OR construct OR facilitate OR compile OR) NEAR (derivative derived) AND (document content item element object data information) AND (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data);

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(generate OR create OR produce OR build OR compose OR provide OR construct OR facilitate OR compile OR) AND (derivative derived) AND (document content item element object data information) AND (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data);

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(generate OR create OR produce OR build OR compose OR provide OR construct OR facilitate OR compile OR) NEAR (derivative derived) AND (document content item element object data information) AND (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data);

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Search Term 1

(generate OR create OR produce OR build OR compose OR provide OR construct OR facilitate OR compile OR) NEAR (derivative derived) NEAR (document content item element object data information) NEAR (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data);

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Search Term 1

(generate\$1 create\$1 produce\$1 build\$1 compose\$1 provide\$1 construct\$1 facilitate\$1 compile\$1 result\$1 deliver\$1 near\$1 (derivative derived) near\$1 (document content item element object data information) near\$1 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data);

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Generate Printable Search History

Instructions

The Google Search History Generator is a tool used for selecting and saving search queries as a PDF file to be imported into an OC Set. A full QRG on installation and use of this tool can be found on the PESE OC Training and Subscription page.

Creating the "Printable" Search History

- 1. In the list above, click in the Show entries from past field and select an appropriate timeframe from the expanded menu.
- 2. Click the checkboxes next to search strings that should appear on the resulting search history.
- 3. Click the **Generate Printable Search History** button. A Print window displays. Click the Destination field, select Save as PDF, and click the Save button.
- 4. If you need to generate multiple separate search history listings (e.g., you have searched for two applications mixed together), generate one, then reload this page, and generate the second one.

Putting the Search History in e-Red Folder and OC action

- 1. In OC, click the Import Files button in the toolbar. An Import Files window opens.
- 2. If the Search History is saved in an e-Red Folder for the application, the file will be listed in the Import Files window; or navigate to the location of the saved search history file. Drag the PDF file to the "Drag and drop files here" portion of the Import Files window. The file will then be listed.
- 3. Click to check the selection box next to the Search History file in the list.
- 4. If not automatically populated, click the Doc Code field and select SRMT from the expanded list.
- 5. Click the Import button and verify the file appears in the document list and was properly imported.

Getting Further Help

Users can direct questions about PESE-OC or this extension to the TRS Team. For any problems importing the Search History into an OC set, please submit a FISM ticket to the PESE Official Correspondence (OC) team.

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PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	36665	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 04:08 PM
L2	9	("20040015408" "20140278758" "20170325006" "20180268253" "20190259107" "20190347668" "8752086" "9727618" "9792270").PN.	(US-PGPUB; USPAT)	OR	ON	ON	2021/12/04 04:10 PM
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L4	543	L3 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 05:20 PM
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		((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))					
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L9	1	L8 and ((pull\$3 fetch\$3 retriev\$3 obtain\$3 extract\$3 request\$3 retract\$3 grab\$4 snarch\$3) near9 (modular module unit design component design block scheme code layout package algorithm platform) near9 (content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook) near9 (relevant relevanc\$1 pertinent pertaining significant) near9 (customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 05:39 PM

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L16	93	essay study documentary version project writing))) L12 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) with ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:12 PM
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L18	63	L17 and rule	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:14 PM
L19	61	L18 and parameter	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:14 PM
L20	66867	L12 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:27 PM

L21	36665	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	IBM_TDB) (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:28 PM
L22	610	L21 and L20	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:28 PM
L23	0	L22 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:28 PM
L24	1287	((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:30 PM

		get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))					
L25	1266	L24 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:31 PM
L26	59	L25 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/04 09:32 PM
L27	1289	((automatic\$4 automated machine\$1driven	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2021/12/08 10:10 AM

		computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))	IBM_TDB)				
L28	1268	L27 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:10 AM
L29	59	L28 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:10 AM

L30	74375	manifesto book draft page webpage study literature content data))) ((module modular) near9 (API "application programming interface"))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:19 AM
L31	74287	L30 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:21 AM
L32	36681	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:21 AM
L33	757	L31 and L32	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:21 AM
L34	0	L33 and ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:26 AM
L35	33	L33 and ((reader near7 (interact\$3 engagement engag\$3 interest reading)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:27 AM
L36	19	L35 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 10:31 AM
L37	14	(modular near2 content near2 item\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:20 AM
L38	14	L37 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:20 AM
L39	4	L38 and ((personaliz\$3	(US-PGPUB; USPAT;	OR	ON	ON	2021/12/08

		individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				11:20 AM
L40	2767	((modular module) near2 content near2 (item\$1 element))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:35 AM
L41	2762	L40 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:36 AM
L42	2	L38 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual) near9 (user client customer consumer purchaser reader person individual))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:37 AM
L43	693	L41 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual) near9 (user client customer consumer purchaser reader person	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:37 AM

L44	891880	individual)) 17and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:38 AM
L45	19	L32 and L43	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:38 AM
L46	25743	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:46 AM
L47	24999	L46 and (@ad<"20210615" or @riad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:53 AM
L48	3587	L47 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:58 AM
L49	106	L48 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3) near4 (document content item element object data	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 11:59 AM

L50	106	information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 12:11 PM
L51	25743	L49 and ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3 collect\$3 assess\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 03:50 PM
L52	24999	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 03:50 PM
L53	3587	L51 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 03:50 PM
L54	106	L52 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 03:50 PM
L54	106	L53 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3) near4 (document content item	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 03:50 PM

		element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))					
L55	106	L54 and ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3 collect\$3 assess\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 03:50 PM
L56	16	L55 and (rule near9 (module modular model mod))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 03:50 PM
L57	79	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) same ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 05:17 PM
L58	78	L57 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 05:18 PM
L59	36681	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/08 05:20 PM
L60	3	L58 and L59	(US-PGPUB; USPAT;	OR	ON	ON	2021/12/08

L61	85	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) with ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	05:20 PM 2021/12/09 08:15 AM
L62	12	L61 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/09 08:16 AM
L63	85	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader\$1 near7 (interact\$3 engagement engag\$3 interest	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/09 09:52 AM

L64	200	reading behaviour behavior))) with ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document)) ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader\$1 near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) same ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/09 09:53 AM
L65	3877	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3 identif\$4 stor\$3 sav\$3 determin\$3) near9 ((customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor advertiser company merchant dealer	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/09 10:02 AM

		helpdesk supplier) near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) same ((module model modular rule mod modality paradigm modulat\$3 pattern parameter analyzer node) near9 (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))					
L66	3864	L65 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/09 10:04 AM
L67	1542	L66 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/09 10:06 AM
L68	36699	(G06F40/103 or G06F16/24564 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2021/12/09 10:08 AM

L69	29	G06F40/134 or G06F40/166).cpc. L67 and L68	JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/09 10:08 AM
L70	13	(US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 08:59 AM
L71	13	L70 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 09:00 AM
L72	2	L71 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 09:12 AM
L73	6	L71 and ((embed\$\$ imbed\$4 integrat\$3 insert\$3 incorporat\$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2021/12/10 09:54 AM

		includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2))	IBM_TDB)				
L74	8	L71 and ((embed\$\$ imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 09:54 AM
L75	3	L71 and ((parameter param variable criterion metric determinant settings endpoint factor measure pattern bechmark element watermakr perimeter bboolean comvariance preset modulo	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 11:00 AM

L76	12	algorithm) near9 (personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document)) L71 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 11:16 AM
L77	4210149	"2" and ((structure achitecture construction composition mechanism framework arrangement building hierarchy model entity configuration body construct\$3 layout) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 03:43 PM

L78	13	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 03:43 PM
L79	4	L78 and ((structure achitecture construction composition mechanism framework arragement building hierarchy model entity configuration body construct\$3 layout) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/10 03:43 PM
L80	13	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 09:49 AM
L81	4	L80 and ((structure achitecture construction composition mechanism framework arragement building hierarchy model entity configuration body construct\$3 layout) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 09:49 AM
L82	8	L80 and ((rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy) near9 (link url resource\$1 connection liaison associat\$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 09:53 AM

L83	8	relat\$3 linkage correlat\$3 interlink\$3 connect\$3 tie\$1 referenc\$3 gateway coupl\$3 login chain\$3 plug\$4)) L80 and ((rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy) near9 (link url resource\$1 connection liaison associat\$3 relat\$3 linkage correlat\$3 interlink\$3 connect\$3 tie\$1 referenc\$3 gateway coupl\$3 login chain\$3 plug\$4) same (module modular model mod unit cluster modulat\$3 adaptation block design system structure construction architecture component programming organization concept structure format code scheme arrangement specification plug\$4 domain node layout configuration algorithm platform))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 09:57 AM
L84	7	L80 and ((client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) near9 (parameter param variable criterion criteria metric setting factor endpoint standard measure pattern	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 10:11 AM

L85	5	element preset modulo schema)) L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (interface gui ui))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:01 AM
L86	0	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (interface gui ui) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:02 AM
L87	0	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) same (interface gui ui) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:03 AM
L88	6	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) same (interface gui ui display\$3 present\$3 presentation) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:04 AM
L89	4	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) same (interface gui ui	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:06 AM

		display\$3 present\$3 presentation) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy) same (field subject value domain score range area range level box region))					
L90	13	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (input entr\$3 feedback user))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:17 AM
L91	4	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (input entr\$3 feedback))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:21 AM
L92	3	US-8219914-\$	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:22 AM
L93	2	US-20090076834-\$	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:23 AM
L94	2	L93 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:23 AM
L95	1	L94 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (input entr\$3 feedback))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 11:23 AM
L96	7	(US-20090076834-\$ US-20150081611-\$ US-20110029858-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 03:11 PM
L97	7	L96 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 03:12 PM
L98	0	L97 and (master same rule)	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2021/12/13 03:12 PM

L99	0	L97 and (master same (rule condition criteria))	JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 03:13 PM
L100	1	L97 and (master same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 03:14 PM
L101	2	L97 and ((generat\$3 creat\$3 produc\$3 build\$3 add\$3 insert\$3) with (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/13 03:22 PM
L102	14048	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) same (field text\$1field) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/14 07:54 AM
L103	13736	L102 and	(US-PGPUB; USPAT;	OR	ON	ON	2021/12/14

L104	36720	(@ad<"20210615" or @rlad<"20210615")	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	07:56 AM
L105	127	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc. L104 and L103	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/14 07:56 AM
L106	4349	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) with (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) with (field text\$1field value entr\$3) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/14 08:55 AM
L107	30	L106 and L104	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/14 08:57 AM

L108	14	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/14 09:51 AM
L109	14	L108 and (@ad<"20210615" or @riad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/14 09:53 AM
L110	14	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/14 01:12 PM
L111	7	L110 and ((embed\$3 imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/14 01:15 PM
L112	14	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/15 09:56 AM
L113	2	L112 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/15 09:58 AM
L114	2	L112 and ((personaliz\$3 individualiz\$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2021/12/15 10:00 AM

L115	4	customiz\$3 personaliz\$3 optimiz\$3) same parameter\$1)	IBM_TDB)	OR	ON	ON	2021/12/15 10:00 AM
L116	14	L112 and (parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/15 11:04 AM
L117	17	(US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$ US- 20090076834-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/15 12:46 PM
L118	2	L117 and ((personaliz\$3 individualiz\$3 customiz\$3 personaliz\$3 optimiz\$3) same parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/15 12:46 PM
L119	12	L117 and ((embed\$ imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/15 12:47 PM
L120	17	(US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US-	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/16 01:55 PM

L121	6	20110029858-\$ US-20090076834-\$ US-20120159300-\$) L120 and ((rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy) near9 (field value\$1 entr\$3 input))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/16 01:58 PM
L122	17	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$ US-20120159300-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/16 07:17 PM
L123	7	L122 and ((updat\$3 revis\$3 upgrad\$3 modif\$4 amend\$3 synchroniz\$4 renew\$3 adapt\$3 moderni\$4 insert\$3 chang\$3) with (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personaliz\$3 optimiz\$3))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/16 07:17 PM
L124	17	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$ US-20120159300-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2021/12/17 10:16 AM
L125	13	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$ US-20120159300-\$)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/12 12:21 PM

L126	1	((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) SAME parameter\$1))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/12 12:23 PM
L127	16407	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/12 12:26 PM

L128	1	L122 AND L127	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/12 12:26 PM
L129	1	(L5 AND ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 04:58 PM
L130	2951	(((automatic\$4 automated machine\$1driven	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY,	OR	ON	ON	2022/05/13 06:40 PM

L131	13	computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))) (US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$ US- 20090076834-\$ US- 20120159300-\$)	CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:41 PM
L132	2	L131 AND L130	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2022/05/13 06:41 PM

L133	0	L127 AND L132	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:42 PM
L134	16407	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor developer empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:42 PM

L135	1	text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy))	L134 AND L131	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:43 PM
L136	0	(L135 AND ((updat\$3 revis\$3 upgrad\$3 modif\$4 amend\$3 synchroniz\$4 renew\$3 adapt\$3 moderni\$4 insert\$3 chang\$3) WITH (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3)))	(L135 AND ((updat\$3 revis\$3 upgrad\$3 modif\$4 amend\$3 synchroniz\$4 renew\$3 adapt\$3 moderni\$4 insert\$3 chang\$3) WITH (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3)))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:43 PM
L137	9	(L117 AND ((embed\$\$ imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3	(L117 AND ((embed\$\$ imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2022/05/13 06:44 PM

L138	9	encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy)))	IBM_TDB)				
		L137 AND L131	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:44 PM
L139	1	L138 AND L134	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:45 PM
L140	1	(L139 AND ((rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy) near9 (field value\$1 entr\$3 input)))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO;	OR	ON	ON	2022/05/13 06:45 PM

L141	8	(US-20110029858-\$ US-20090076834-\$ US- 20150081611-\$ US- 20120159300-\$)	JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:52 PM
L142	1	L141 AND L134	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:52 PM
L143	0	L142 AND L130	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2022/05/13 06:53 PM
L144	19855	(G06F40/103 OR G06F16/24564 OR G06F40/134 OR G06F40/166).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/27 04:18 PM
L145	64199	(G06F40/103 OR G06F16/24564 OR	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2023/04/27 04:19 PM

		G06F40/134 OR G06F40/166).cpc.	AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L146	3299	((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/27 04:20 PM
L147	60	L146 AND L145	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA,	OR	ON	ON	2023/04/27 04:20 PM

L148	39	(L147 AND ((rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy) near9 (field value\$1 entr\$3 input)))	EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/27 04:20 PM
L149	13	(L148 AND ((updat\$3 revis\$3 upgrad\$3 modif\$4 amend\$3 synchroniz\$4 renew\$3 adapt\$3 moderni\$4 insert\$3 chang\$3) WITH (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3)))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/27 04:21 PM
L150	5	L149 AND ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) SAME parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/27 04:21 PM
L151	3	L150 AND ((pull\$3 fetch\$3 retriev\$3 obtain\$3 extract\$3 request\$3 retract\$3 grab\$4 snarch\$3) near9 (modular module unit design component	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/27 04:22 PM

L152	5139	design block scheme code layout package algorithm platform) near9 (content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook) near9 (relevant relevanc\$1 pertinent pertaining significant) near9 (customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor advertiser company merchant dealer helpdesk supplier)) (parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/28 04:51 PM
L153	55	L145 AND L152	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE,	OR	ON	ON	2023/04/28 04:52 PM

L154	2307	L153 ((modular module model) near9 (embed\$4 near7 rule))	SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/28 04:55 PM
L155	3	L153 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/28 04:55 PM
L156	3	L155 AND ((link\$3 associat\$3) near9 (modular module model) near9 (derivative deriv\$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/04/28 04:57 PM
L157	49061	(G06F40/103 or G06F16/24564 or G06F40/134 or	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/07/13 09:12 PM

L158	9	G06F40/166).cpc. ("20040015408" "20140 278758" "20170325006 " "20180268253" "2019 0259107" "2019034766 8" "8752086" "9727618" "9792270").PN.	IBM_TDB) (US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:12 PM
L159	650	((pull\$3 fetch\$3 retriev\$3 obtain\$3 extract\$3 request\$3 retract\$3 grab\$4 snarch\$3) near9 (modular module unit design component design block scheme code layout package algorithm platform) near9 (content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook) near9 (relevant relevanc\$1 pertinent pertaining significant) near9 (customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor advertiser company merchant dealer helpdesk supplier))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L160	590	L3 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L161	10	L4 and L1	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L162	5	L5 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L163	1589	asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))) ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
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		papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))					
L164	1393	L7 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L165	6	L8 and ((pull\$3 fetch\$3 retriev\$3 obtain\$3 extract\$3 request\$3 retract\$3 grab\$4 snarch\$3) near9 (modular module unit design component design block scheme code layout package algorithm platform) near9 (content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook) near9 (relevant relevanc\$1 pertinent pertaining significant) near9 (customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor advertiser company merchant dealer helpdesk supplier))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L166	462	((generat\$3 creat\$3 produc\$3 build\$3 compos\$3) near9 (derivative near4 document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L167	5	L10 and ((pull\$3 fetch\$3 retriev\$3 obtain\$3 extract\$3 request\$3 retract\$3 grab\$4 snarch\$3) near9 (modular module unit design component design block scheme code layout package algorithm platform) near9 (content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook) near9 (relevant relevanc\$1 pertinent pertaining significant) near9 (customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor advertiser company merchant dealer helpdesk supplier))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L168	121705	((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 (((derivative derived) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L169	38	L12 and ((pull\$3 fetch\$3 retriev\$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/07/13 09:12 PM

		obtain\$3 extract\$3 request\$3 retract\$3 grab\$4 snarch\$3) near9 (modular module unit design component design block scheme code layout package algorithm platform) near9 (content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook) near9 (relevant relevanc\$1 pertinent pertaining significant) near9 (customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor advertiser company merchant dealer helpdesk supplier))	JPO; DERWENT; IBM_TDB)				
L170	5	L13 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L171	5	near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))) L13 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) with ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L172	155	L12 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

		programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) with ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))					
L173	149	L16 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L174	106	L17 and rule	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L175	101	L18 and parameter	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L176	114336	L12 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L177	49061	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L178	991	L21 and L20	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT;	OR	ON	ON	2024/07/13 09:12 PM

L179	5	L22 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))	IBM_TDB) (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L180	1589	((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

		interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))					
L181	1393	L24 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L182	87	L25 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L183	1589	((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

		compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))					
L184	1393	L27 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L185	87	L28 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L186	94810	((module modular) near9 (API "application programming interface"))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L187	88064	L30 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L188	49061	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L189	939	L31 and L32	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L190	6	L33 and ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L191	42	L33 and ((reader near7 (interact\$3 engagement engag\$3 interest reading)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L192	27	L35 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L193	19	(modular near2 content near2 item\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L194	19	L37 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L195	9	L38 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L196	3098	playbook sale proposal whitepaper newsletter company handbook annual)) ((modular module) near2 content near2 (item\$1 element))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L197	2954	L40 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L198	7	L38 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual) near9 (user client customer consumer purchaser reader person individual))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L199	769	L41 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual) near9 (user client customer consumer purchaser reader person individual))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L200	1126446	17and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

		digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual))					
L201	26	L32 and L43	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L202	27808	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L203	25933	L46 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L204	3679	L47 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L205	175	L48 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L206	175	literature content data))) L49 and ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3 collect\$3 assess\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L207	27808	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L208	25933	L51 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L209	3679	L52 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L210	175	L53 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L211	175	page webpage study literature content data))) L54 and ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3 collect\$3 assess\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L212	63	L55 and (rule near9 (module modular model mod))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L213	95	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) same ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L214	86	L57 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L215	49061	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L216	8	L58 and L59	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L217	92	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader near7 (interact\$3 engagement	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L218	25	engag\$3 interest reading behaviour behavior))) with (((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document)) L61 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L219	92	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader\$1 near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) with (((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L220	200	information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document)) ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader\$1 near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) same ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L221	4802	((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3 identif\$4 stor\$3 sav\$3 determin\$3) near9 ((customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor advertiser company merchant dealer helpdesk supplier) near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) same ((module model modular rule mod modality paradigm	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

		modulat\$3 pattern parameter analyzer node) near9 (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document))					
L222	4276	L65 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L223	2035	L66 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L224	49061	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L225	58	L67 and L68	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L226	10	(US-8219914-\$ US-	(US-PGPUB; USPAT;	OR	ON	ON	2024/07/13

L227	10	20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$) L70 and (@ad<"20210615" or @rlad<"20210615")	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	09:12 PM 2024/07/13 09:12 PM
L228	2	L71 and ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L229	4	L71 and ((embed\$\$ imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L230	6	personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2)) L71 and ((embed\$\$ imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2) relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L231	1	L71 and ((parameter param variable criterion metric determinant settings endpoint factor measure pattern bechmark element watermakr perimeter bboolean comvariance preset modulo algorithm) near9 (personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L232	10	page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document)) L71 and ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L233	5881015	"2" and ((structure achitecture construction composition mechanism framework arrangement building hierarchy model entity configuration body construct\$3 layout) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L234	10	(US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L235	2	L78 and ((structure achitecture construction	(US-PGPUB; USPAT; USOCR; FPRS; EPO;	OR	ON	ON	2024/07/13 09:12 PM

		composition mechanism framework arrangement building hierarchy model entity configuration body construct\$3 layout) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy))	JPO; DERWENT; IBM_TDB)				
L236	10	(US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L237	2	L80 and ((structure achitecture construction composition mechanism framework arrangement building hierarchy model entity configuration body construct\$3 layout) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L238	5	L80 and ((rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy) near9 (link url resource\$1 connection liaison associat\$3 relat\$3 linkage correlat\$3 interlink\$3 connect\$3 tie\$1 referenc\$3 gateway coupl\$3 login chain\$3 plug\$4))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L239	5	L80 and ((rule\$1	(US-PGPUB; USPAT;	OR	ON	ON	2024/07/13

		condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy) near9 (link url resource\$1 connection liaison associat\$3 relat\$3 linkage correlat\$3 interlink\$3 connect\$3 tie\$1 referenc\$3 gateway coupl\$3 login chain\$3 plug\$4) same (module modular model mod unit cluster modulat\$3 adaptation block design system structure construction architecture component programming organization concept structure format code scheme arrangement specification plug\$4 domain node layout configuration algorithm platform))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:12 PM
L240	5	L80 and ((client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) near9 (parameter param variable criterion criteria metric setting factor endpoint standard measure pattern element preset modulo schema))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L241	5	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (interface gui ui))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L242	0	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (interface gui ui) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L243	0	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) same (interface gui ui) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L244	5	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) same (interface gui ui display\$3 present\$3 presentation) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L245	4	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) same (interface gui ui display\$3 present\$3 presentation) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

		scheme sentence valid validity interest\$2 relevant relevancy) same (field subject value domain score range area range level box region))					
L246	10	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (input entr\$3 feedback user))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L247	3	L80 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (input entr\$3 feedback))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L248	2	US-8219914-\$	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L249	2	US-20090076834-\$	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L250	2	L93 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L251	2	L94 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (input entr\$3 feedback))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L252	6	(US-20090076834-\$ US-20150081611-\$ US- 20110029858-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L253	6	L96 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L254	0	L97 and (master same rule)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L255	0	L97 and (master same (rule condition criteria))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L256	1	L97 and (master same	(US-PGPUB; USPAT;	OR	ON	ON	2024/07/13

L257	2	(rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:12 PM
		L97 and ((generat\$3 creat\$3 produc\$3 build\$3 add\$3 insert\$3) with (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L258	24090	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) same (field text\$1field) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L259	21606	L102 and (@ad<"20210615" or @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L260	49061	(G06F40/103 or G06F16/24564 or G06F40/134 or G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L261	200	L104 and L103	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L262	7129	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) with (client user customer username viewer subscriber customer consumer searcher client person patinet visitor developep empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) with (field text\$1field value entr\$3) same (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L263	68	L106 and L104	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L264	11	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L265	11	L108 and	(US-PGPUB; USPAT;	OR	ON	ON	2024/07/13

L266	11	(@ad<"20210615" or @rlad<"20210615") (US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$)	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	09:12 PM 2024/07/13 09:12 PM
L267	5	L110 and ((embed\$3 imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L268	11	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L269	0	L112 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L270	1	L112 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) same parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L271	3	L112 and (parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L272	11	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L273	13	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$ US-20120159300-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L274	1	L117 and ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) same parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L275	9	L117 and ((embed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L276	13	(US-8219914-\$ US-20150081611-\$ US-20130031470-\$ US-10783315-\$ US-20110029858-\$ US-20090076834-\$ US-20120159300-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L277	3	L120 and ((rule\$1 condition script policy regulation requirement criteria criterion	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L278	13	standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy) near9 (field value\$1 entr\$3 input)) (US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$ US- 20090076834-\$ US- 20120159300-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L279	5	L122 and ((updat\$3 revis\$3 upgrad\$3 modif\$4 amend\$3 synchroniz\$4 renew\$3 adapt\$3 moderni\$4 insert\$3 chang\$3) with (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L280	13	(US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$ US- 20090076834-\$ US- 20120159300-\$)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L281	13	(US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$ US- 20090076834-\$ US- 20120159300-\$)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L282	1	(L117 AND ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) SAME parameter\$1))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS,	OR	ON	ON	2024/07/13 09:12 PM

L283	21678	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy))	IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L284	1	L122 AND L127	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L285	5	(L5 AND ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))	IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L286	3788	(((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L287	13	up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))) (US-8219914-\$ US- 20150081611-\$ US- 20130031470-\$ US- 10783315-\$ US- 20110029858-\$ US- 20090076834-\$ US- 20120159300-\$)	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L288	2	L131 AND L130	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L289	0	L127 AND L132	VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L290	21678	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L291	1	scheme sentence valid validity interest\$2 relevant relevancy)) L134 AND L131	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L292	0	(L135 AND ((updat\$3 revis\$3 upgrad\$3 modif\$4 amend\$3 synchroniz\$4 renew\$3 adapt\$3 moderni\$4 insert\$3 chang\$3) WITH (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3)))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L293	9	(L117 AND ((embed\$\$ imbed\$4 integrat\$3 insert\$3 incorporat\$3 includ\$3 nest\$3 anchor\$3 encod\$3 deploy\$3 attach\$3 encapsulat\$3 superimpos\$3 append\$3 upload\$3 pars\$3 configur\$4 serializ\$3 predefin\$3 personaliz\$4 parameteriz\$3 ingrain\$3 implement\$3 instantiat\$3 utiliz\$3 encrypt\$3 automat\$3 meld\$3 connect\$3) near9 (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L294	9	arrangment check scheme sentence valid validity interest\$2 relevant relevancy))) L137 AND L131	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L295	1	L138 AND L134	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L296	1	(L139 AND ((rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy) near9 (field value\$1 entr\$3 input)))	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L297	8	(US-20110029858-\$ US-20090076834-\$ US- 20150081611-\$ US- 20120159300-\$)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2024/07/13 09:12 PM

L298	1	L141 AND L134	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L299	0	L142 AND L130	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L300	21924	(G06F40/103 OR G06F16/24564 OR G06F40/134 OR G06F40/166).cpc.	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:12 PM
L301	71970	(G06F40/103 OR G06F16/24564 OR G06F40/134 OR G06F40/166).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV,	OR	ON	ON	2024/07/13 09:12 PM

L302	3788	(((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))	MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L303	71	L146 AND L145	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO,	OR	ON	ON	2024/07/13 09:12 PM

L304	46	(L147 AND ((rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy) near9 (field value\$1 entr\$3 input)))	RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L305	16	(L148 AND ((updat\$3 revis\$3 upgrad\$3 modif\$4 amend\$3 synchroniz\$4 renew\$3 adapt\$3 moderni\$4 insert\$3 chang\$3) WITH (derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3)))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L306	7	L149 AND ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) SAME parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L307	5	L150 AND ((pull\$3 fetch\$3 retriev\$3 obtain\$3 extract\$3 request\$3 retract\$3 grab\$4 snarch\$3) near9 (modular module unit design component design block scheme code layout package algorithm platform) near9 (content item element object data information) near9	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM

L308	5866	(document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook) near9 (relevant relevanc\$1 pertinent pertaining significant) near9 (customer client reader person individual user consumer subscriber clientele tenant buyer patient purchaser acquirer employer passenger licensee lessee recipient guest agent collaborator employee vendor advertiser company merchant dealer helpdesk supplier)) (parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L309	61	L145 AND L152	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L310	2803	L153 ((modular module	(US-PGPUB; USPAT;	OR	ON	ON	2024/07/13

		model) near9 (embed\$4 near7 rule))	USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				09:12 PM
L311	6	L153 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L312	6	L155 AND ((link\$3 associat\$3) near9 (modular module model) near9 (derivative deriv\$3))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:12 PM
L313	163036	((creat\$3 generat\$3 produc\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL,	OR	ON	ON	2024/07/13 09:21 PM

L314	107441	papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))) (G06F40/103 OR G06F16/24564 OR G06F40/134 OR G06F40/166 OR G06F40/106 OR G06F40/186 OR G06F40/131).cpc.	PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:22 PM
L315	6386	L314 AND L313	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:22 PM
L316	101	L315 AND (parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH,	OR	ON	ON	2024/07/13 09:23 PM

L317	13	statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)) L315 AND ((link\$3 associat\$3) near9 (modular module model) near9 (derivative deriv\$3))	TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:23 PM
L318	6	L317 AND (parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:24 PM
L319	6	L318 AND ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) SAME parameter\$1)	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:25 PM
L320	5	L319 AND (master SAME (rule condition criteria document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:26 PM
L321	5	L320 AND ((track\$3 monitor\$3 record\$3 detect\$3 evaluat\$3 keep\$3) near9 (reader	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:27 PM

L322	5	near7 (interact\$3 engagement engag\$3 interest reading behaviour behavior))) SAME ((personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near9 (content information data book article webpage website page report brochure digital magazine product guide sale playbook sale proposal whitepaper newsletter company handbook annual document)) L321 AND ((generat\$3 creat\$3 produc\$3 build\$3 compos\$3 provid\$3 stimulat\$3 catalyz\$3 construct\$3 facilitat\$3 compil\$3 result\$3 deliver\$3) near9 ((derivative derived) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data)))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:28 PM
L323	5	L322 AND (@ad<"20210615" OR @rlad<"20210615")	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:32 PM
L324	0	L323 AND (render\$3 near9 (interactive near2 document) near9 (content near2 renderer) near9 (link near5 (change modification)) near9 (master near2 document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:40 PM
L325	8	N78 AND (parameter\$1 near9 (personalization personalized customized integrative)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	OR	ON	ON	2024/07/13 09:42 PM

		near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L326	0	L325 AND (render\$3 near9 (interactive near2 document) near9 (content near2 renderer) near9 (link near5 (change modification)) near9 (master near2 document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:42 PM
L327	0	N84 AND (render\$3 near9 (interactive near2 document) near9 (content near2 renderer) near9 (link near5 (change modification)) near9 (master near2 document))	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/07/13 09:46 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	497	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/12 12:30 PM

		viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy)) .clm.					
N2	425	L3	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/12 04:13 PM
N3	1	(L5 AND ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13 04:30 PM

N4	113	paperwork guide guideline publication presentation literature essay study documentary version project writing)))) ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))).CLM.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13 07:07 PM
N5	9180	(715/234).ccls.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13 07:07 PM
N6	1	N5 AND N4	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13 07:08 PM
N7	0	N1 AND N6	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13 07:08 PM
N8	0	(G06F17/30716).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13 07:09 PM
N9	0	(G06F17/3).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13 07:10 PM
N10	30828	(G06F16/9535).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13

N11	2	N4 AND N10	(US-PGPUB; USPAT)	OR	ON	ON	07:11 PM 2022/05/13 07:12 PM
N12	0	N11 AND N1	(US-PGPUB; USPAT)	OR	ON	ON	2022/05/13 07:12 PM
N13	200	(parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 04:59 PM
N14	0	N13 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 04:59 PM
N15	536	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:00 PM

		advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevanc\$3)) .clm.					
N16	27	N10 AND N15	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:00 PM
N17	0	N16 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:00 PM
N18	5	N13 AND N5	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N19	0	N18 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N20	523	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM

		requirement criteria criterion standard decision filter exception arrangement check scheme sentence valid validity interest\$2 relevant relevancy)) .clm.					
N21	472	L3	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N22	3	(L5 AND ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N23	122	(((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM

		get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))).CLM.					
N24	9204	(715/234).ccls.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N25	1	N5 AND N4	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N26	0	N1 AND N6	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N27	0	(G06F17/30716).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N28	0	(G06F17/3).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N29	32856	(G06F16/9535).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N30	2	N4 AND N10	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N31	0	N11 AND N1	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N32	200	(parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM

		manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)).clm.					
N33	0	N13 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N34	536	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevanc\$3))..clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N35	27	N10 AND N15	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N36	0	N16 AND ((modular	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28

N37	5	module model) near9 (embed\$4 near7 rule)) N13 AND N5	(US-PGPUB; USPAT)	OR	ON	ON	05:01 PM 2023/04/28 05:01 PM
N38	0	N18 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/04/28 05:01 PM
N39	523	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy)) .clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N40	472	L3	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N41	3	(L5 AND ((automatic\$4 automated machine\$1driven computerized automate automation robotic	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM

N42	122	programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))) (((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative)	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
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		near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))).CLM.					
N43	9205	(715/234).ccls.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N44	1	N5 AND N4	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N45	0	N1 AND N6	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N46	0	(G06F17/30716).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N47	0	(G06F17/3).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N48	32864	(G06F16/9535).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N49	2	N4 AND N10	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N50	0	N11 AND N1	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N51	200	(parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N52	0	N13 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N53	536	((derivative derived deriv\$3 personaliz\$3 individualiz\$3	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM

		customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevanc\$3)) .clm.					
N54	27	N10 AND N15	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N55	0	N16 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N56	5	N13 AND N5	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N57	0	N18 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N58	523	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM

		object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevancy)) .clm.					
N59	472	L3	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N60	3	(L5 AND ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM

N61	122	participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)))) ((automatic\$4 automated machine\$1driven computerized automate automation robotic programmable adaptive asynchronous) near9 (assembl\$3 gather\$3 ((put\$4 set setting get\$4) near2 (together up)) reassembl\$3 build\$3 construct\$3 compil\$3 arrang\$5 attach\$3 collect\$3 unit\$3 join\$3 combin\$3 regroup\$3 consolidat\$3 congregat\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))))).CLM. (715/234).cccls.	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N62	9205		(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01

N63	1	N5 AND N4	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N64	0	N1 AND N6	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N65	0	(G06F17/30716).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N66	0	(G06F17/3).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N67	32864	(G06F16/9535).CPC.	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N68	2	N4 AND N10	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N69	0	N11 AND N1	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N70	200	(parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N71	0	N13 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01
N72	536	((derivative derived deriv\$3 personaliz\$3 individualiz\$3 customiz\$3 personalis\$3 optimiz\$3) near4 (document content item element object data information) near9 (document report brochure handbook proposal whitepaper newsletter magazine guide guideline sale playbook file paper manifesto book draft page webpage study literature content data) WITH (client user	(US-PGPUB; USPAT)	OR	ON	ON	08:45 AM 2023/05/01

		customer username viewer subscriber customer consumer searcher client person patinet visitor deverloper empolyee operator someone learner individual applicator recipient empolyer designer owner desk reporter end-user individual advertiser) WITH (field text\$1field value entr\$3) SAME (rule\$1 condition script policy regulation requirement criteria criterion standard decision filter exception arrangment check scheme sentence valid validity interest\$2 relevant relevanc\$3)) .clm.					
N73	27	N10 AND N15	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N74	0	N16 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N75	5	N13 AND N5	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N76	0	N18 AND ((modular module model) near9 (embed\$4 near7 rule))	(US-PGPUB; USPAT)	OR	ON	ON	2023/05/01 08:45 AM
N77	7452	((creat\$3 generat\$3 produc\$3) near9 ((interactive interactional interact\$3 participative participatory collaborative iterative personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:41 PM

N78	222	project writing))).clm. N67 AND N77	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:41 PM
N79	4	N78 AND (parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:42 PM
N80	0	N79 AND ((link\$3 associat\$3) near9 (modular module model) near9 (derivative deriv\$3))	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:43 PM
N81	131	N62 AND N77	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:43 PM
N82	1	N81 AND ((link\$3 associat\$3) near9 (modular module model) near9 (derivative deriv\$3))	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:44 PM
N83	1	N82 AND (parameter\$1 near9 (personalization personalized customized integrative) near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:44 PM
N84	1	N83 AND (parameter\$1 near9 (personalization personalized customized integrative)	(US-PGPUB; USPAT)	OR	ON	ON	2024/07/13 09:45 PM

		near9 (document papers documentation letter memorandum declaration report dossier file booklet handbook brochure manuscript manifesto statement copy printout paperwork guide guideline publication presentation literature essay study documentary version project writing))					
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Page 248 of 269
FOLEON EX1002
IPR2025-01525

1.1.16. Adding Value to a Rendered Document

A system for processing data captured from sensor-based measurements is described. The system provides a way for authors and publishers to add value to printed documents using smart tags.

47. [Spice profits for health care video](#)

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48. Multi-service business platform system having reporting systems and methods

The database is devoted to various ways of improving the functioning of computer systems, structural networks, data centers, search engines systems and methods, and their advantages. Acting not as a blog, provided herein are methods, systems, components, processes, modules, blocks, circuits,...

4.2. Automatic Modification of Web Pages

A system for interactive paper is described where fragments are captured as functions in a condensed document. A digital version of the document is dynamically built. Markup data applied to the capture creates a text set of interactive items for the user. Please contact for publishing documents and more.

5.3 Systems and moments of osseous data exchange

An example method for managing digital rights management (DRM) protected content arising in a networked secure collaborative computer data exchange environment includes establishing a secure exchange facility and managed by an intermediate organizational entity, a procedure that allows a user,

Downloaded from www.jstor.org on Tue, 20 Jun 2016 12:00:00 UTC

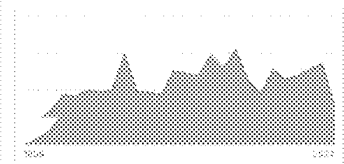
Abstract

Result: $\frac{1}{2}$

[illegible]

2500-2510

Publication date:



Fast Car Assignments by Mileage

[illegible]

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❖ **Non Visual**

Bibliographic Data

Application No: 18/357,451

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged:

Examiner's Signature

Initials

Title:

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT
CREATION

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/24/2023	715	2176	56000-701.303
RULE			

APPLICANTS

Turtl Surf & Immerse Limited, London, UNITED KINGDOM

INVENTORS

Nicholas Kingsley Mason, St Albans, UNITED KINGDOM

CONTINUING DATA

This application is a CON of 17830566 06/02/2022 PAT 11755816

17830566 is a CON of 17347899 06/15/2021 PAT 11379651

17347899 has PRO of 63048512 07/06/2020

FOREIGN APPLICATIONS

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08/04/2023

STATE OR COUNTRY

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UNITED STATES

FILING FEE RECEIVED

\$2,620



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Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

21971 7590 07/26/2024
WILSON SONSINI GOODRICH & ROSATI
650 PAGE MILL ROAD
PALO ALTO, CA 94304-1050

EXAMINER

MRABI, HASSAN

ART UNIT

PAPER NUMBER

2176

DATE MAILED: 07/26/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/357,451	07/24/2023	Nicholas Kingsley Mason	56000-701.303	6650

TITLE OF INVENTION: METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/28/2024

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)

21971 7590 07/26/2024
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650 PAGE MILL ROAD
PALO ALTO, CA 94304-1050

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.

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.
18/357,451	07/24/2023	Nicholas Kingsley Mason	56000-701.303	6650

TITLE OF INVENTION: METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/28/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
MRABI, HASSAN	2176	715-234000

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,

(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.

1 _____

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. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/357,451	07/24/2023	Nicholas Kingsley Mason	56000-701.303	6650
21971	7590	07/26/2024	EXAMINER	
WILSON SONSINI GOODRICH & ROSATI			MRABI, HASSAN	
650 PAGE MILL ROAD			ART UNIT	
PALO ALTO, CA 94304-1050			PAPER NUMBER	
			2176	
DATE MAILED: 07/26/2024				

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.

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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. 18/357,451	Applicant(s) Mason, Nicholas Kingsley	
	Examiner HASSAN MRABI	Art Unit 2176	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 12/05/2023.
☐ 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 2,4-12 and 14-21. 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. ☒ Notice of References Cited (PTO-892)	5. ☒ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>01/08/2024</u> .	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☒ Interview Summary (PTO-413), Paper No./Mail Date. <u>07/10/2024</u> .	

/HASSAN MRABI/ Examiner, Art Unit 2176	
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Notice of Pre-AIA or AIA Status

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

Remark

2. This Office action has been issued in response to amendment filed on 12/05/2023.

Terminal Disclaimer

3. The terminal disclaimer filed on 07/11/2024 has been reviewed and is accepted. The terminal disclaimer has been recorded.

EXAMINER'S AMENDMENT

4. 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.
5. Authorization for this examiner's amendment was given subsequent to a telephone interview with Shuaimin Liu on 07/11/2024.

AMENDMENTS TO THE CLAIMS

6. The following is the list of claims that were amended:

Claim 2. (Currently Amended) A system for creating an interactive document, the system comprising:

a memory for storing a set of software instructions, and one or more processors configured to execute the set of software instructions to perform one or more operations comprising:

(a) generating an interactive document comprising one or more modular items, wherein the one or more modular items are pulled from a master document based at least in part on one or more personalization parameters, and wherein the interactive document comprises a tracking feature to collect data indicative of user interaction with the interactive document;

(b) creating a link between the interactive document and the master document, wherein the link comprises the one or more personalization parameters;

(c) rendering the interactive document with aid of a content renderer, wherein the content renderer is configured to use the link to apply a change to the one or more modular items based on a change to the master document.

Claim 3. Cancelled.

Claim 12. (Currently Amended) A computer-implemented method for creating an interactive document, comprising:

(a) generating an interactive document comprising one or more modular items, wherein the one or more modular items are pulled from a master document based at least in part on one or more

personalization parameters, and wherein the interactive document comprises a tracking feature to collect data indicative of user interaction with the interactive document;

(b) creating a link between the interactive document and the master document, wherein the link comprises the one or more personalization parameters;

(c) rendering the interactive document with aid of a content renderer, wherein the content renderer is configured to use the link to apply a change to the one or more modular items based on a change to the master document.

Claim 13. Cancelled.

Allowance

7. Claims (2, 4-11) and (12, 14-21) are allowable.
8. Claims 1, 3, 13 are cancelled.

Reason for Allowance

9. The cited arts of record, by Hauser. US Patent Application Publication US 20110029858 AI (hereinafter Hauser) in view of Shivakumar. US Patent Application Publication US 20150081611 AI (hereinafter Shivakumar) and further in view of Rauber et al. US Patent Application Publication US 20090076834 AI (hereinafter Rauber) and further in view of Vincent, III. US Patent Application Publication US 20120159300 AI (hereinafter Vincent) teach interactive content creation.

10. Claims (2, 4-11) and (12, 14-21) are allowable. Independent claims 2 and 12 are allowable because the cited arts of record, Hauser. US Patent Application Publication US 20110029858 AI

(hereinafter Hauser) in view of Shivakumar. US Patent Application Publication US 20150081611 A1 (hereinafter Shivakumar) and further in view of Rauber et al. US Patent Application Publication US 20090076834 A1 (hereinafter Rauber) and further in view of Vincent, III. US Patent Application Publication US 20120159300 A1 (hereinafter Vincent) do not explicitly disclose, teach, or suggest the claimed limitations of:

(a) generating an interactive document comprising one or more modular items, wherein the one or more modular items are pulled from a master document based at least in part on one or more personalization parameters, and wherein the interactive document comprises a tracking feature to collect data indicative of user interaction with the interactive document;

(b) creating a link between the interactive document and the master document, wherein the link comprises the one or more personalization parameters;

(c) rendering the interactive document with aid of a content renderer, wherein the content renderer is configured to use the link to apply a change to the one or more modular items based on a change to the master document.

(in combination with all other features in the claim).

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HASSAN MRABI whose telephone number is (571)272-8875. The examiner can normally be reached on M-F 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman can be reached on (571)272-3644. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HASSAN MRABI/

Examiner, Art Unit 2144



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION # 18/357,451	RECEIPT DATE / TIME 09/17/2024 12:15:37 PM Z ET	ATTORNEY DOCKET # 56000-701.303
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Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	6650	FILED BY	Ruth Holmberg
PATENT CENTER #	67203612	AUTHORIZED BY	Shuaimin Liu
CUSTOMER #	21971	FILING DATE	07/24/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Nicholas Kingsley Mason

Payment Information

PAYMENT METHOD DA / 232415	PAYMENT TRANSACTION ID E20249GC16267218	PAYMENT AUTHORIZED BY Ruth Holmberg
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FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
1501	UTILITY ISSUE FEE	1200.00	1	1200.00
TOTAL AMOUNT:				\$1,200.00

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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)

21971 7590 07/26/2024
WILSON SONSINI GOODRICH & ROSATI
650 PAGE MILL ROAD
PALO ALTO, CA 94304-1050

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.

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.
18/357,451	07/24/2023	Nicholas Kingsley Mason	56000-701.303	6650

TITLE OF INVENTION: METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1200	\$0.00	\$0.00	\$1200	10/28/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
MRABI, HASSAN	2176	715-234000

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,

(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.

1 Wilson Sonsini Goodrich & Rosati

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

TURTL SURF & IMMERSE LIMITED

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

LONDON, ENGLAND

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. 23-2415

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 /Shuaimin Liu/

Date 9/17/2024

Typed or printed name Shuaimin Liu

Registration No. L1361



ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/357,451	09/17/2024 12:15:37 PM Z ET	56000-701.303

Title of Invention

METHODS AND SYSTEMS FOR INTERACTIVE CONTENT CREATION

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	6650	FILED BY	Ruth Holmberg
PATENT CENTER #	67203612	FILING DATE	07/24/2023
CUSTOMER #	21971	FIRST NAMED INVENTOR	Nicholas Kingsley Mason
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Shuaimin Liu

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
56000-701-303-IF-Transmittal-09-17-2024.pdf	1	Issue Fee Payment (PTO-85B)	356 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
56000-701-303-IF-Transmittal-09-17-2024.pdf	89B03F867A2439D17D35F16A6AF69F6FC2F4C1D6A1317CF4C77912A48186F90035C80E9032267D2945EEC023B66F959CE1BBB7012129B6F324FF8EF122F899E7

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/357,451	10/15/2024	12118290	56000-701.303	6650

21971 7590 09/25/2024
WILSON SONSINI GOODRICH & ROSATI
650 PAGE MILL ROAD
PALO ALTO, CA 94304-1050

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at <https://patentcenter.uspto.gov/>. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at <https://certifiedcopycenter.uspto.gov/index.html>. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (<https://patentcenter.uspto.gov>).

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 Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional inventors):

Nicholas Kingsley Mason, St Albans, UNITED KINGDOM;

APPLICANT(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional applicants):

Turtl Surf & Immerse Limited, London, UNITED KINGDOM;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit [SelectUSA.gov](https://selectusa.gov).



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/357,451	07/24/2023	Nicholas Kingsley Mason	56000-701.303	6650
21971 7590 10/15/2024 WILSON SONSINI GOODRICH & ROSATI 650 PAGE MILL ROAD PALO ALTO, CA 94304-1050			EXAMINER MRABI, HASSAN	
			ART UNIT 2176	PAPER NUMBER
			NOTIFICATION DATE 10/15/2024	DELIVERY MODE ELECTRONIC

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.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@wsgr.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/357,451	15-Oct-2024	12118290

WILSON SONSINI GOODRICH & ROSATI
650 PAGE MILL ROAD
PALO ALTO, CA 94304-1050

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at <https://patentcenter.uspto.gov>

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit <https://www.uspto.gov/electronicgrants>