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EVENT-BASED RESOURCE ALLOCATION SYSTEM

FIELD

[0001] The present disclosure relates generally to event-based resource allocation systems. More particularly, the present disclosure relates to computing systems that are configured to generate resource data and implement rules-based techniques and machine-learning models that can process, allocate, and automatically update the resource data.

BACKGROUND

[0002] Resource allocation can be a complex process that involves various different entities that perform different parts of the resource allocation process. Due to the large quantity of documents that can be involved in resource allocation, as well as myriad rules and policies related to the underlying resources, a significant amount of time and effort can be expended in ensuring that the resources are properly allocated. Further, in response to changes in the rules or the composition of recipients of the resources, instructions to disburse resources can undergo numerous revisions that, in addition to being expensive, can significantly change the resource disbursement process. To address the many challenges associated with resource allocation, different types of software can be used to collect, store, and disseminate the resource information to others. However, the use of multiple software applications to manage resources can be burdensome and demand a significant amount of manual input. Additionally, generalized software applications may not be fully suited to meeting the often specialized requirements of resource allocation. As such, there are many different approaches that can be used in resource allocation.

SUMMARY

[0003] Aspects and advantages of embodiments of the present disclosure will be set forth in part in the following description, or can be learned from the description, or can be learned through practice of the embodiments.

[0004] One example aspect of the present disclosure is directed to a computer-implemented method that can comprise generating, by a computing system comprising one or more processors, one or more prompts comprising requests for information associated with resource

allocation instructions for distribution of resources. The one or more prompts can be based on one or more resource documents associated with the resources. The one or more resource documents can comprise one or more resource document fields. The resource allocation instructions can be associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients. The computer-implemented method can comprise receiving, by the computing system, one or more responses to the one or more prompts. The computer-implemented method can comprise generating, by the computing system, based on one or more responses and rule data comprising one or more rules associated with the resources, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields. The one or more resource data fields can be based on the one or more resource document fields. The one or more resource data field values can be based on the one or more responses. The computer-implemented method can comprise generating, by the computing system, based on the resource data, one or more indications associated with the resource allocation instructions. The one or more indications can comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients.

[0005] Another example aspect of the present disclosure is directed to a computing system including: one or more processors; and one or more non-transitory computer-readable media storing instructions that when executed by the one or more processors cause the one or more processors to perform operations. The operations can comprise generating one or more prompts comprising requests for information associated with resource allocation instructions for distribution of resources. The one or more prompts can be based on one or more resource documents associated with the resources. The one or more resource documents can comprise one or more resource document fields. The resource allocation instructions can be associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients. The operations can comprise receiving one or more responses to the one or more prompts. The operations can comprise generating, based on one or more responses and rule data comprising one or more rules associated with the resources, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields. The one or more resource data fields can be based on the one or more resource document fields. The one or more resource data field values

can be based on the one or more responses. The operations can comprise generating, based on the resource data, one or more indications associated with the resource allocation instructions. The one or more indications can comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients.

[0006] Another example aspect of the present disclosure is directed to one or more tangible non-transitory computer-readable media that collectively store instructions that when executed by one or more processors cause the one or more processors to perform operations. The operations can comprise generating one or more prompts comprising requests for information associated with resource allocation instructions for distribution of resources. The one or more prompts can be based on one or more resource documents associated with the resources. The one or more resource documents can comprise one or more resource document fields. The resource allocation instructions can be associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients. The operations can comprise receiving one or more responses to the one or more prompts. The operations can comprise generating, based on one or more responses and rule data comprising one or more rules associated with the resources, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields. The one or more resource data fields can be based on the one or more resource document fields. The one or more resource data field values can be based on the one or more responses. The operations can comprise generating, based on the resource data, one or more indications associated with the resource allocation instructions. The one or more indications can comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients.

[0007] Other aspects of the present disclosure are directed to various systems, apparatuses, non-transitory computer-readable media, user interfaces, and devices for resource processing and allocation. These and other features, aspects, and advantages of various embodiments of the present disclosure will become better understood with reference to the following description and appended claims. The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate example embodiments of the present disclosure and, together with the description, serve to explain the related principles.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] Detailed discussion of embodiments directed to one of ordinary skill in the art is set forth in the specification, which makes reference to the appended figures, in which:

[0009] FIG. 1 depicts a block diagram of an example environment including a computing system that performs operations, according to example embodiments of the present disclosure;

[0010] FIG. 2 depicts a block diagram of an example of a computing device, according to example embodiments of the present disclosure;

[0011] FIG. 3 depicts a diagram of an example machine-learning model according to example embodiments of the present disclosure;

[0012] FIG. 4 depicts an example of an interface for generating projected asset valuations according to example embodiments of the present disclosure;

[0013] FIG. 5 depicts an example of an interface for generating projected asset distributions according to example embodiments of the present disclosure;

[0014] FIG. 6 depicts an example of an interface for generating resources scenarios according to example embodiments of the present disclosure;

[0015] FIG. 7A depicts an example of an interface for generating event notifications according to example embodiments of the present disclosure;

[0016] FIG. 7B depicts an example of an interface for generating event notifications according to example embodiments of the present disclosure;

[0017] FIG. 8A depicts an example of an interface for generating rule modification notifications according to example embodiments of the present disclosure;

[0018] FIG. 8B depicts an example of an interface for generating event notifications according to example embodiments of the present disclosure;

[0019] FIG. 9 depicts a flow diagram of an example method for generating resource data according to example embodiments of the present disclosure;

[0020] FIG. 10 depicts a flow diagram of an example method for generating resource data according to example embodiments of the present disclosure;

[0021] FIG. 11 depicts a flow diagram of an example method for generating resource data according to example embodiments of the present disclosure;

[0022] FIG. 12 depicts a flow diagram of an example method for generating resource data according to example embodiments of the present disclosure; and

[0023] FIG. 13 depicts a flow diagram of an example method for generating resource data according to example embodiments of the present disclosure.

[0024] Reference numerals that are repeated across plural figures are intended to identify the same features in various implementations.

DETAILED DESCRIPTION

[0025] In general, the present disclosure is directed to generating and processing data including resource data associated with resource processing and allocation. In accordance with this disclosure, a personalized analysis of resource allocation instructions including data relating to the assets and entities associated with the resources can be generated and used to automatically deal with various aspects of resources planning. Further, the resource data that is generated can be based on resource allocation instructions of an entity associated with the resources (e.g., a network administrator, a computing systems architect, and/or an asset administrator) and can include information associated with assets of the resources and the distribution of those assets to other entities including resource recipients of the resources. In some embodiments, the disclosed technology can receive information from various sources and generate resource data that can be used to generate indications including visualizations of different aspects of the resources. The disclosed technology can also implement machine-learning models that have been configured and/or trained to generate various projections (e.g., asset valuation projections) or predictions that can be used to improve resource processing and allocation.

[0026] Additionally, the present disclosure is directed to improved computer systems, computer applications, computer-implemented methods, user interfaces, and/or services for resource processing and/or allocation. In some instances, the resource allocation systems and methods described herein can be used to structure and visualize an existing resources plan, strategize potential opportunities, offer online document creation, and create a collaborative online space for accessing current resources plans and documents. Further, the systems and methods described herein can account for complex fact patterns, multiple types of trust documents, state, and federal tax laws, and have a robust reporting engine.

[0027] As used herein, the terms “user,” “advisor,” “wealth advisor,” “financial planner,” and/or “resources strategist” can each refer to the corresponding term itself individually, or one

or more terms from the list of terms collectively. Further, the term “document” may include electronic documents and/or computer based documents (e.g., files stored on a storage device of a computing system).

[0028] In some instances, the disclosed technology can provide greater visibility into a user’s resources allocation instructions and activities. This can provide resource advisors with real-time updates on the status of resource documents, reports, and/or tasks. In some instances, a resource data generation flow in which clients respond to prompts can make it easier for advisors to add resource documents into the platform and perform an initial assessment of resource allocation instructions. Further, by gathering basic information through an onboarding process, the system can be configured to identify opportunities that are specifically tailored to the resources. Further, advisors can receive notifications based on existing planning, changes in law, or changes in life circumstances that prompt them to check-in on the resources. Furthermore, the disclosed technology can be easy to use, integrated with other financial technology systems, and secure.

[0029] For example, a computing system can generate one or more prompts that are associated with requests for information associated with resource allocation instructions for distribution of resources. The computing system can generate a variety of prompts associated with various aspects of processing resources and/or allocating resources. The prompts can take the form of questions that can be used to direct a user to enter responses that can be used to generate resource data that is then processed and used to provide information, updates, and notifications to a user. For example, one or more prompts can be generated via a user interface that is displayed on a display device associated with the computing system. The one or more prompts can be based on one or more resource documents associated with the resources. For example, the one or more resource documents on which the one or more prompts are based can comprise a network policy, authentication policy, legal documents, estate documents, a will, deeds to property, beneficiary designations, a power of attorney, insurance policy, healthcare directives, and/or other types of documents that are associated with resources. Further, the one or more resource documents can comprise one or more resource document fields. For example, the document fields can comprise fields associated with the name of a resource recipient or the amount of an asset that may be distributed to a resource recipient. Further, the document fields

can be associated with corresponding document field values that can be assigned based on the responses to the one or more prompts.

[0030] The computing system can receive responses to the prompts. For example, the computing system can receive responses to the prompts including the prompt requesting the name of a resource recipient which can be associated with a resource recipient field. The resource recipient field value associated with the resource recipient field can then be assigned a value based on the response to the prompt associated with the resource recipient field. The computing system can generate resource data that is based on one or more responses and rule data that includes one or more rules associated with the resources (e.g., access rules and/or permissions). The resource data can include resource data fields and resource data field values that correspond to the resource data fields. The resource data fields can be based on the one or more resource document fields. Further, the resource data field values can be based on the responses. For example, the resource data field for a resource recipient's name can correspond to the document data field for the resource recipient's name. Further, the resource data field value for the resource recipient's name can correspond to the response to the prompt requesting the resource recipient's name.

[0031] The computing system can generate indications that can include visualizations of the distribution of the one or more assets to the one or more resource recipients. The indications can be based on the resource data. For example, based on resource data that indicates the specific assets (e.g., computing devices, documents, houses, vehicles, securities, and/or cash) to be distributed to various resource recipients, the computing system can generate visualizations that indicate which resource recipients receive which assets and the amounts of the assets that each of the resource recipients receives.

[0032] Accordingly, the disclosed technology can generate resource data and visualizations of the resource data that are based on specific user responses to prompts associated with resources. Further, the disclosed technology can assist a user in more effectively performing the technical task of resource data processing by means of a continued and/or guided human-machine interaction process in which responses to generated prompts based on resource documents are received and the disclosed technology generates real-time visualizations based on continuously updated resource data. The disclosed technology can allow for the generation of personalized resource data provision that can more effectively address a user's questions.

[0033] In some embodiments, the disclosed technology can comprise a computing system (e.g., a resource data processing computing system) that can comprise one or more computing devices (e.g., devices with one or more computer processors and a memory that can store one or more instructions) that can process, send, receive, generate, and/or modify data (e.g., data associated with processing resources and/or resource allocation). The computing system can communicate (e.g., send and/or receive data) with various other systems and/or devices (e.g., one or more remote computing systems) that can send and/or receive data associated with resources. In some embodiments, the computing system can comprise one or more features of the computing system 110 that is described with respect to FIG. 1 and/or the computing device 200 that is described with respect to FIG. 2. Further, the computing system can comprise and/or be associated with one or more machine-learning models that include one or more features of the one or more machine-learning models 304 that are described with respect to FIG. 3.

[0034] A computing system can generate one or more prompts. The computing system can generate one or more prompts that are displayed in an interface (e.g., a graphical user interface) of a display component associated with the computing system. In some embodiments, the one or more prompts can be generated via an audio output device (e.g., loudspeakers) associated with the computing system.

[0035] The one or more prompts can be associated with requests for information. The one or more prompts can comprise one or more questions that can be configured to receive one or more response types. The one or more response types can comprise open-ended answers, selecting from a list of responses, fill-in the blank responses, and/or true or false responses. In some embodiments, the one or more responses can be based on selection of a numerical value, numerical value range, calendar date value, and/or calendar date value range.

[0036] For example, the computing system can generate one or more prompts in the form of questions on a display device and/or audible prompts that can use synthetic speech and/or pre-recorded speech to request the information. Further, the information can be associated with resource allocation instructions for distribution of resources. For example, the one or more prompts can comprise requests for information of an entity comprising a person (e.g., a name, date of birth, address, and/or contact information of a person), a device (e.g., the software, processor, storage, and/or memory configuration of a computing device), and/or an organization (e.g., the name of the organization, the geographic location in which the organization is

registered and/or incorporated). Further, the one or more prompts can comprise requests for information associated with one or more assets. For example, the one or more prompts can comprise a request for information about the state, address, estimated value, and owner of an asset comprising real property.

[0037] The one or more assets can comprise one or more computing devices (e.g., one or more laptop computing devices, smartphones, and/or desktop computing devices), one or more software assets (e.g., one or more software applications and/or access to one or more software applications), real property, tangible personal property (e.g., vehicles, books, furniture, jewelry, clothing, personal electronics, and/or sporting equipment), one or more securities (e.g., stocks, treasury bills, and/or bonds), intangible property (e.g., intellectual property including patents, copyrights, and/or trademarks), and/or cash. For example, the one or more prompts can comprise requests for information about the ownership of one or more assets, whether the assets are subject to taxes or fees, where assets are located, the monetary value of assets (e.g., an estimated or appraised value of an asset), and/or one or more resource recipients associated with one or more assets. In some embodiments, the one or more resource recipients can comprise one or more users (e.g., user of computing software, computing services, and/or computing devices), one or more computing devices (e.g., one or more computing devices that use network resources, processing resources, and/or storage resources), one or more trustees (e.g., one or more trustees of an estate), and/or one or more beneficiaries (e.g., one or more beneficiaries of a will).

[0038] The one or more prompts can be generated based on one or more resource documents associated with the resources. For example, the one or more prompts can be based on performance of one or more optical character recognition operations on one or more resource documents. Further, the one or more resource documents can be inputted into one or more machine-learning models that are configured and/or trained to generate the one or more prompts based on the one or more resource documents. The one or more machine-learning models can be configured and/or trained to generate the one or more prompts based on recognition of textual and/or semantic features of the one or more resource documents. For example, the one or more machine-learning models can recognize portions of the one or more resource documents that are associated with one or more entities, one or more assets, and/or one or more rules (e.g., computing device policies, network policies, clauses of a will, insurance policy provisions, laws,

and/or bank account policies) associated with distributing the one or more assets to the one or more entities.

[0039] The one or more resource documents can comprise one or more documents associated with the resources and/or the resource allocation instructions. Further, the one or more resource documents may include one or more rules and/or one or more references to rules that can be used to determine the ownership and/or distribution of the one or more assets. The one or more resource documents can comprise one or more network policies, one or more user guides, one or more access policies, one or more authorization policies, one or more authentication policies, one or more estate documents, one or more wills, one or more trusts, a power of attorney, one or more titles, one or more deeds, one or more account resource recipient designations, one or more guardianship designations, one or more insurance policies, and/or one or more healthcare directives.

[0040] The one or more resource documents can comprise one or more resource document fields. Further, the resource document fields can be associated with one or more entities and/or one or more assets. For example, the one or more resource document fields can comprise a document field associated with the name of a resource recipient and/or a document field associated with the address of real property, a network address (e.g., IP address), and/or the name of tangible personal property comprising a piece of artwork (e.g., a painting or sculpture). In some embodiments, the one or more resource document fields can comprise one or more estate document fields associated with an estate and/or an estate plan (e.g., resource allocation instructions to distribute assets of an estate). Further, the one or more estate document fields can be associated with one or more estate document values that may correspond to the one or more estate document fields.

[0041] Further, the resource allocation instructions can be associated with the distribution of one or more assets of the resources to one or more entities. The resource allocation instructions can indicate the one or more entities that are associated with receiving (e.g., resource recipients) the one or more assets and/or managing (e.g., a network administrator, an executor, and/or resource manager) one or more assets of the resources. The one or more entities can comprise one or more resource recipients, one or more network administrators, one or more users (e.g., computer users), one or more beneficiaries, one or more managers, one or more trustees of the resources, one or more employees, one or more testators, and/or one or more creditors.

[0042] The computing system can receive one or more responses to the one or more prompts. Further, as part of receiving the one or more responses, the computing system can implement an interface that is configured to detect and/or receive the one or more responses to the one or more prompts. For example, the computing system can implement a graphical user interface that is configured to be displayed on a display component associated with the computing system and receive the one or more responses via one or more inputs (e.g., entering text) provided via one or more input devices (e.g., a touchscreen, a mouse, a keyboard, microphone, stylus, and/or a numeric input pad).

[0043] The computing system can generate resource data. Generating the resource data can be based on one or more responses and/or rule data. The rule data can comprise one or more rules associated with the resources. In some embodiments, the one or more rules can be based on one or more regulations associated with the resources. The one or more rules can be associated with the regulation of computing systems and/or one or more assets associated with computing systems. For example, the one or more rules can be associated with one or more access policies, one or more authorization policies, one or more authentication policies, one or more computing device permissions, one or more file access permissions, and/or assignment of one or more assets (e.g., computing devices) to one or more entities (e.g., computing device users). Further, the one or more rules can be associated with one or more laws (e.g., one or more federal laws and/or one or more state laws) that can be associated with various aspects of the resources including probate law, resources law, tax law, inheritance law, and/or property law. Further, the one or more rules can be based on one or more provisions of the one or more resource documents (e.g., network policy documents, estate documents, an estate plan, provisions of a will, trust, healthcare directive, power of attorney, and/or insurance policy).

[0044] The resource data can comprise one or more resource data fields and/or one or more resource data field values. For example, a resource data field can be associated with an asset (e.g., a house) and the resource data field value can be associated with an appraised value of the house (e.g., \$750,000.00). The one or more resource data field values can correspond to the one or more resource data fields. For example, the resource data field value that indicates the maturity date of a debt instrument can correspond to the resource data field associated with a debt instrument. The one or more resource data fields can be based on the one or more resource document fields. For example, the resources document field associated with the name of an asset

indicated in a resource document can correspond to the name of the asset indicated in the resource data field in the resource data. The one or more resource data field values can be based on the one or more responses. For example, if a response to a prompt requesting information about the intended resource recipient of an asset is a particular name (e.g., “JOHN DOE”), the one or more resource data field value associated with the name of the intended resource recipient may match the response (e.g., the resource data field can indicate “JOHN DOE”). In some embodiments, the resource data can comprise estate data. The estate data can be associated with an estate plan (e.g., resource allocation instructions for an estate) associated with distribution of one or more assets of an estate (e.g., an estate comprising one or more assets that were previously the property of one or more entities) to one or more entities (e.g., one or more beneficiaries of the estate).

[0045] The computing system can generate one or more indications. Further, the one or more indications can be associated with the resource data and/or the resource allocation instructions. For example, the computing system can generate an interface (e.g., a graphical user interface) comprising one or more regions in which the one or more indications associated with the resource data and/or resource allocation instructions are displayed and/or comprising an interface element that can cause the computing system to generate information associated with one or more assets and/or one or more entities based on detecting one or more inputs to the interface.

[0046] The one or more indications can comprise text, numerical values, images, and/or symbols (e.g., graphs and/or charts) associated with the resource data. For example, the one or more indications can comprise identifiers and/or values associated with one or more assets (e.g., locations of assets, expected appreciation or depreciation values of assets, and/or the owners of assets), biographical information associated with one or more entities, and/or one or more identities of the one or more entities (e.g., one or more resource recipients that can include a network administrator, systems architect, testator, beneficiary, executor, trustee, administrator, asset manager, and/or resource manager).

[0047] In some embodiments, the one or more indications can comprise one or more interactive indications that can provide additional information about one or more portions of resource data based on detection of one or more inputs. For example, an asset indication associated with an asset can be configured to show the name of an asset by default and additional

information about the asset such as the value and location of the asset based on detection of an input to the asset indication.

[0048] The one or more indications can comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients. For example, the one or more visualizations of the distribution of the one or more assets to the one or more resource recipients can comprise a chart that indicates the names of the one or more resource recipients and the assets associated with each resource recipient. Further, the one or more visualizations can be updated in real-time or near real-time based on changes in the values of the one or more assets and/or the one or more resource recipients (e.g., resource recipients that are added or removed).

[0049] The computing system can receive and/or retrieve an asset valuation request associated with a projected asset valuation of one or more assets. The asset valuation request can comprise an indication of the asset and/or a time and/or date (e.g., a date sometime in the future) associated with the projected valuation. For example, the asset valuation request can comprise a request to determine the projected value of an asset comprising a computing device at a date two years in the future and/or the projected value of a classic automobile at a date ten years in the future.

[0050] The computing system can determine the projected asset valuation of one or more assets. Determining the projected asset valuation can be based on the resource data. In some embodiments, the one or more indications associated with the resource allocation instructions can comprise the projected asset valuation of the one or more assets. For example, the computing system can access information associated with an estimated appreciation and/or depreciation rate of the selected asset (e.g., the appreciation rate or depreciation rate of real property in the geographical location surrounding the selected asset) and determining the projected asset valuation based on applying the estimated appreciation rate and/or depreciation rate to the current value of the selected asset. Further, the computing system can use one or more statistical techniques (e.g., linear regression) to determine the one or more projected asset valuations.

[0051] The projected asset valuation can be based on inputting input data comprising the resource data and/or financial data into one or more machine-learning models (e.g., one or more machine-learning asset projection models) that can be configured and/or trained to generate the

projected asset valuation. The financial data can comprise one or more predicted asset appreciation rates, a predicted inflation rate, and/or one or more asset depreciation rates. In some embodiments, the input data can comprise information associated with the selected time in the future and resource data identifying the selected asset and comprising the selected value of the selected asset. The one or more machine-learning models can be configured and/or trained based on training data that can comprise historical data associated with the values of various assets over time (e.g., the values of real property, automobiles, and/or works of art).

[0052] The computing system can receive and/or retrieve an asset distribution request associated with a projected asset distribution of the one or more assets to the one or more entities. The asset distribution request can comprise an indication of the one or more entities and/or the date (e.g., a date in the future) associated with the projected asset distribution. For example, the projected asset distribution request can comprise a request to determine the projected asset distribution of the assets of the resources to all of the resource recipients of the resources. Further, the projected asset distribution can be based in part on determining one or more taxes and/or one or more fees associated with the one or more assets. The one or more fees and/or one or more taxes can change the one or more assets that are distributed to the one or more entities.

[0053] The computing system can determine one or more relationships between the one or more entities. Determining the one or more relationships can be based on the resource data. For example, the computing system can determine one or more entities that can receive the one or more assets if one or more entities is no longer entitled to one or more assets. Further, the one or more relationships can comprise the next of kin of the one or more entities.

[0054] The computing system can determine a plurality of projected asset distributions of the one or more assets to the one or more entities. Determining the plurality of projected asset distributions can be based on the resource data and/or the one or more relationships between the one or more entities. For example, the computing system can determine the ages of computing devices and a time that the computing devices have been assigned to one or more resource recipients (e.g., users of the computing devices). Based on the ages of the computing devices and/or the time the computing devices have been assigned to the one or more resource recipients the computing system can determine a projected asset distribution based on a projected amount of time that the computing devices were allocated to the one or more resource recipients. By

way of further example, the computing system can determine ages of a testator and one or more resource recipients. Based on the ages of the testator and/or the one or more resource recipients, the computing system can determine a projected asset distribution based on the ages of the one or more resource recipients at some time in the future. For example, at the future date, an asset distribution may exclude certain intended resource recipients from receiving an asset based on the intended resource recipients being below the age of majority and/or a minimum age established in a trust. At a later date on which the intended resource recipients reach the age of majority, the projected asset distribution may change to include the intended resource recipients.

[0055] For example, the computing system can, based on the resource data, determine one or more types of the one or more assets and determine that the one or more assets comprise real property that is designated to be a life estate. Based on the determination of estimated life expectancies of the one or more resource recipients, the computing system can determine projected asset distributions in which one or more resource recipients receive the life resources.

[0056] In some embodiments, the one or more indications associated with the resource allocation instructions can comprise the plurality of projected asset distributions of the one or more assets to the one or more entities. For example, the computing system can generate an interface (e.g., a graphical user interface) comprising a region in which the plurality of projected asset distributions are displayed and/or comprising an interface element that can cause the computing system to generate the plurality of projected asset distributions.

[0057] The projected asset distribution can be generated based on inputting input data comprising the resource data and/or relationship data associated with the one or more relationships into one or more machine-learning models (e.g., one or more machine-learning distribution projection models) that can be configured and/or trained to generate the projected asset distribution. The input data can comprise information associated with the selected time in the future and resource data identifying the plurality of resource recipients and the plurality of assets associated with the plurality of resource recipients.

[0058] The one or more machine-learning models can be configured and/or trained based on training data that can comprise historical data associated with a predicted time before failure of computing devices and/or life expectancies of various entities over time. For example, if a resource recipient is significantly older than a testator the historical life expectancy data can be used to determine the probability that the resource recipient may receive an asset. By way of

further example, if a resource recipient is significantly older than a testator the historical life expectancy data can be used to determine the probability that the resource recipient may receive an asset. Further, the one or more relationships between the plurality of resource recipients may be used to determine that an intended resource recipient may not be alive to receive an asset at the projected time in the future and that a next of kin (e.g., a child) of the resource recipient will be the actual resource recipient and receive the asset.

[0059] The computing system can receive one or more conditions. The one or more conditions can be associated with the one or more entities and/or the one or more assets. The one or more conditions can comprise a possible life expectancy of the one or more entities, a possible appreciation rate of an asset, a possible depreciation rate of an asset, and/or a possible valuation of the one or more assets. In some embodiments, the one or more conditions can be received via an interface that is configured to receive one or more inputs associated with the one or more conditions.

[0060] The computing system can determine one or more scenarios associated with the one or more conditions. The one or more scenarios can comprise one or more projected valuations of the one or more assets and/or one or more predicted distributions of the one or more assets to the one or more resource recipients. The computing system can perform one or more operations based on use of one or more algorithms that receive a plurality of parameters comprising one or more condition parameters associated with the one or more conditions as inputs. In some embodiments, the one or more indications associated with the resource allocation instructions can comprise the one or more scenarios associated with the one or more conditions.

[0061] In some embodiments, determining the one or more scenarios can be based on inputting the resource data and the one or more conditions into one or more machine-learning scenario models that are configured and/or trained to generate the one or more scenarios. The one or more machine-learning models can be configured and/or trained based on training data comprising historical trends associated with various conditions (e.g., fluctuations in asset values over the various time intervals including six months, one year, two years, and three to ten years).

[0062] The computing system can receive and/or retrieve event data. The event data can comprise information associated with a plurality of events associated with the resources. For example, information associated with the purchase of a new asset to be added to the resources (e.g., a house purchase) can be sent to the computing system from the party that purchased the

house. The computing system can receive event data from one or more remote computing devices that are configured to communicate with the computing system via a network. In some embodiments, the computing system can retrieve (e.g., retrieve periodically and/or based on an event data retrieval request) the event data from one or more remote computing devices.

[0063] In some embodiments, the resource data can comprise one or more portions of the event data. For example, the resource data can comprise event data associated with the date of birth of a child of a resource recipient. Based on the resource data indicating that children of resource recipients can become resource recipients upon reaching the age of majority, the distribution of the one or more assets of the resources can be changed to include the child of the resource recipient as a resource recipient.

[0064] The computing system can determine whether one or more events of the plurality of events satisfy one or more event criteria. The computing system can compare the one or more events to the one or more event criteria to determine if the events are in the class of events in the one or more event criteria. For example, the computing system can determine that a marriage event is in the class of events in the one or more event criteria and that a marriage engagement event is not in the class of events in the one or more event criteria. Based on the event data comprising an event that is in the class of the one or more event criteria, the event can be determined to satisfy the one or more event criteria. In some embodiments, the computing system can further process the event data and determine whether the one or more event criteria are satisfied based on whether the event satisfies an event threshold. For example, the purchase of an asset that has a value that is less than an event threshold amount may not satisfy the one or more event criteria and the purchase of an asset that has a value that is greater than the event threshold amount may satisfy the one or more event criteria. In some embodiments, one or more portions of the resource data can be used to determine whether the one or more events satisfy the one or more event criteria.

[0065] The computing system can generate one or more event notifications associated with the one or more events that satisfy the one or more event criteria. For example, in response to receiving event data indicating that a marriage of a resource recipient has occurred, the computing system can update the resource data to indicate the marital status of the resource recipient. Further, the computing system can generate a notification that can comprise information associated with the date of the marriage, the name of the resource recipient's spouse,

and/or the location at which the marriage took place. In some embodiments, the one or more indications associated with the resource allocation instructions can comprise the one or more event notifications.

[0066] The computing system can send the one or more event notifications to one or more remote computing devices. The one or more remote computing devices can comprise one or more computing devices that are associated with an entity that is authorized to receive the one or more event notifications. For example, the computing system can send one or more event notifications to a computing device (e.g., a laptop computing device) of an attorney that is authorized to receive the one or more event notifications.

[0067] The plurality of events can comprise marriage, university graduation, high-school graduation, divorce, receipt of a new asset (e.g., purchase of real property or a vehicle including an automobile, airplane, or boat), birth of a child, and/or death of at least one of the one or more entities (e.g., death of a resource recipient). In some embodiments, the plurality of events can comprise the change in the value of an asset that exceeds some value threshold. For example, if the value of an asset increases by a dollar amount or a proportional amount (e.g., a 20% increase in the value of an asset or a 30% decrease in the value of an asset), the change in the asset value can be determined to be an event that satisfies the one or more event criteria.

[0068] Generating the resource data can comprise determining one or more locations associated with the one or more assets. In some embodiments, the computing system can determine the one or more locations based on the one or more responses to the one or more prompts (e.g., one or more responses to prompts requesting the location associated with an asset). Further, the computing system can determine the one or more locations associated with the one or more assets based on information from the resource documents. For example, the resource documents can indicate the state in which a vehicle is registered and/or the address of real property. In some embodiments, the one or more locations can comprise virtual locations and/or computing device addresses (e.g., IP addresses).

[0069] The one or more locations can comprise one or more administrative divisions and/or one or more organizations. The one or more administrative divisions can comprise nation states (e.g., Canada), states (e.g., Illinois, United States), provinces (e.g., Ontario, Canada), cities (e.g., Chicago), and/or counties (e.g., Cook County, Illinois). The one or more organizations can comprise financial institutions (e.g., a bank), a charity, and/or a trust.

[0070] Further, generating the resource data can comprise determining the one or more rules associated with the one or more locations. For example, the computing system can access one or more databases that include information associated with the one or more rules of one or more locations. The one or more databases can comprise locally stored and/or online accessible (e.g., accessible via the Internet) databases.

[0071] The computing system can receive and/or retrieve data associated with one or more modifications of the one or more regulations. The computing system can receive data associated with one or more modifications of the one or more regulations from one or more remote computing devices that are configured to communicate with the computing system via a network. For example, data retrieved from a court of law web server can comprise information associated with the imminent passage of a new law that could affect the value of assets associated with resources.

[0072] The computing system can modify the rule data based on the data associated with one or more modifications of the one or more regulations. For example, if the data associated with one or more modifications of the one or more regulations indicates that inheritance laws that determine the minimum allocation of assets associated with resources to a surviving spouse have changed, the intended distribution of assets to resource recipients can be adjusted based on the change in the inheritance laws.

[0073] The computing system can generate one or more rule modification notifications associated with one or more modifications of the one or more regulations. For example, in response to receiving data associated with one or more modifications of the one or more regulations that indicates that a law or policy has been modified, the computing system can generate a notification comprising information that identifies the law and/or policy that was modified, the region in which the law and/or policy is applicable, and/or the date on which the law and/or policy will come into effect. In some embodiments, the one or more indications associated with the resource allocation instructions can comprise the one or more rule modification notifications.

[0074] The computing system can send the one or more rule modification notifications to one or more remote computing devices associated with an entity authorized to receive the one or more rule modification notifications. For example, the computing system can send one or more

rule modification notifications to a computing device (e.g., a smartphone) of a resource manager that is authorized to receive the one or more rule modification notifications.

[0075] The systems, methods, devices, computer-readable media (e.g., tangible non-transitory computer-readable media) in the disclosed technology can provide a variety of technical effects and benefits including an improvement in the generation of resource data that can be used in the analysis and implementation of resource allocation instructions. Further, the resource data can be personalized based on information specific to each individual entity associated with the resource allocation instructions. The disclosed technology can provide the technical effect of improving the effectiveness with which resources planning tasks are performed. For example, the computing system can be continuously updated based on user responses to prompts, changes in rules that govern resources, and/or the occurrence of key events that may change the way in which the assets associated with resources are distributed. In some embodiments, machine-learning models can be used in the process of generating personalized resource data. Further, the machine-learning models can be continuously trained and/or updated in response to updated resource data that is specific to the resources and/or resources plan. As a result, more relevant and timely resource data can be provided to a user based on specific information associated with that particular user's resource data. Further, the disclosed technology can generate visualizations that can include projected asset valuations and/or asset distributions that can be used to plan different scenarios associated with resources.

[0076] The disclosed technology can improve the operation of a resource processing device by more effectively performing a variety of tasks with the specific benefits of providing more accurate resources planning information. Further, the disclosed technology can use various rules-based techniques and/or machine-learning models to more efficiently process resource documents that would otherwise require time consuming and burdensome manual review and handling. Accordingly, the improvements offered by the disclosed technology can result in tangible benefits to a variety of devices and/or systems comprising computing systems, electronic systems, and/or mechanical systems associated with processing resource data.

[0077] With reference to the Figures, example embodiments of the present disclosure will be discussed in further detail. FIG. 1 depicts a block diagram of an example environment including a computing system that performs operations according to example embodiments of the present disclosure. An environment 100 includes a network 102, a computing system 110, one or more

computing devices 112, one or more processors 114, one or more memory devices 116, data 118, instructions 120, a remote computing system 130, one or more computing devices 132, one or more processors 134, one or more memory devices 136, data 138, instructions 140, one or more computing devices 152, one or more processors 154, one or more memory devices 156, data 158, and instructions 160.

[0078] The network 102 can include any type of communications network. For example, the network 102 can include a local area network (LAN), a wide area network (WAN), an intranet, an extranet, and/or the internet. Further, the network 102 can include any number of wired or wireless connections and/or links that can be used to communicate with one or more computing systems (e.g., the computing system 110 and/or the remote computing system 130) and/or one or more devices (e.g., the one or more computing devices 152). Communication over the network 102 can be performed via any type of wired and/or wireless connection and can use a wide variety of communication protocols (e.g., TCP/IP, HTTP, SMTP, FTP), encodings or formats (e.g., HTML, XML), and/or protection schemes (e.g., VPN, secure HTTP, SSL).

[0079] The computing system 110 can include any combination of systems and/or devices including one or more computing systems (not shown) and/or one or more computing devices 112. Further, the computing system 110 may be connected (e.g., networked) to one or more computing systems (e.g., remote computing system 130) and/or one or more computing devices (e.g., the one or more computing devices 152) via the network 102. The computing system 110 may operate in various different configurations including as a server or a client machine in a client-server network environment, or as a peer machine in a peer-to-peer (or distributed) network environment. Though the computing system 110 is depicted in FIG. 1 as a single device, the computing system 110 can include any collection or combination of devices that individually or in combination with other devices, execute a set of one or more instructions to perform any one or more of the operations discussed herein.

[0080] In this example, the computing system 110 includes one or more computing devices 112. The one or more computing devices 112 can include any type of computing device. For example, the one or more computing devices 112 can include a personal computing device (e.g., a desktop computing device), a mobile computing device (e.g., a smartphone or tablet device), a server computing device, a network router, a switch, a bridge, or any device capable of executing a set of instructions (e.g., any combination of instructions which can include sequential

instructions and/or parallel instructions) associated with one or more operations and/or one or more actions to be performed by the computing system 110 or any of the constituent components and/or devices of the computing system 110.

[0081] Any of the one or more computing devices 112 can include the one or more processors 114. The one or more processors 114 can include any processing device (e.g., a processor core, a microprocessor, an ASIC, a FPGA, a controller, or a microcontroller) and can include one processor or multiple processors that may be operatively connected. In some embodiments, the one or more processors 114 may include one or more complex instruction set computing (CISC) microprocessors, one or more reduced instruction set computing (RISC) microprocessors, one or more very long instruction word (VLIW) microprocessors, and/or one or more processors that are configured to implement other instruction sets.

[0082] The one or more computing devices 112 can include the one or more memory devices 116. The one or more memory devices 116 can be used to store data and/or information and can include one or more computer-readable media, one or more non-transitory computer-readable storage media, and/or one or more machine-readable media. Though the one or more memory devices 116 are depicted in FIG. 1 as a single unit (e.g., a single medium), the computer-readable storage media can include a single medium or multiple media (e.g., a centralized or distributed database, and/or associated caches and servers) that store one or more sets of instructions. Further, the computer-readable storage media can include any medium that is capable of storing, encoding, and/or carrying a set of instructions for execution by a computing device and which may cause the computing device to perform any of the one or more operations described herein. In some embodiments, the computer-readable storage media can include one or more solid-state memories, one or more optical media, and/or one or more magnetic media. By way of example, the one or more memory devices 116 can include any combination of random-access memory (RAM), read-only memory (ROM), EEPROM, EPROM, one or more flash memory devices, and/or one or more magnetic storage devices (e.g., one or more hard disk drives).

[0083] The one or more processors 114 can be configured to execute one or more instructions to perform the operations described herein. Further, the one or more memory devices 116 can store the data 118 and/or the instructions 120, which can be executed by the one or more processors 114 to cause the one or more computing devices 112 to perform one or more

operations. For example, the one or more operations performed by the one or more processors 114 can include accessing resources planning data.

[0084] The data 118 can include resources planning data. Further, the instructions 120 can include one or more instructions to use data including the data 118 to perform any one or more of the various operations described herein. In some embodiments, the one or more memory devices 116 can be used to store one or more applications that can be operated by the one or more processors 114. The data 118, the instructions 120, and/or the one or more applications can be associated with processing and/or allocating resources. Further, the computing system 110 may be associated with processing and/or allocating and may be configured to manage one or more applications.

[0085] Any of the one or more computing devices 112 can include one or more input devices 122 and/or one or more output devices 124. The one or more input devices 122 can be configured to receive input (e.g., user input) and can include one or more touch screens, one or more keyboards, one or more pointing devices, (e.g., mouse device), one or more buttons, one or more microphones, and/or one or more cameras. The one or more output devices 124 can include one or more display devices, one or more loudspeaker devices, one or more haptic output devices. By way of example, the one or more output devices 124 can be used to display a graphical user interface via a display device that can include a touch screen layer that is configured to detect one or more inputs (e.g., one or more user inputs). The one or more processors 114 may perform one or more operations based at least in part on the one or more inputs.

[0086] The remote computing system 130 includes one or more computing devices 132. Each of the one or more computing devices 132 can include one or more processors 134, one or more memory devices 136, the data 138, and/or the instructions 140. The remote computing system 130 can include any of the attributes and/or capabilities of the computing system 110. Further, the remote computing system 130 can communicate with one or more devices and/or one or more systems via the network 102. In some embodiments, the remote computing system 130 can include one or more applications (e.g., computer software applications comprising computer instructions) that can be stored and/or executed by the remote computing system 130.

[0087] One or more computing devices 152 (e.g., user devices or any other types of devices) can include one or more processors 154, one or more memory devices 156, the data 158, and/or

the instructions 160. The one or more computing devices 152 may include any of the attributes and/or capabilities of the one or more computing devices 112, and/or the one or more computing devices 132. Further, the one or more computing devices 152 can communicate with one or more devices and/or one or more systems via the network 102. In some embodiments, the one or more computing devices 152 can include one or more applications (e.g., computer software applications comprising computer instructions) that can be stored and/or executed by the one or more computing devices 152.

[0088] FIG. 2 depicts a block diagram of an example of a computing device according to example embodiments of the present disclosure. A computing device 200 can include one or more attributes and/or capabilities of the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Furthermore, the computing device 200 can be configured to perform one or more operations and/or one or more actions that can be performed by the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200.

[0089] As shown in FIG. 2, the computing device 200 can include one or more memory devices 202, including resource data 204, rule data 206, network data 207, financial data 208, one or more machine-learning models 209, one or more interconnects 214, one or more processors 220, a network interface 222, one or more mass storage devices 224, one or more output devices 226, and/or one or more input devices 228.

[0090] The one or more memory devices 202 can store information and/or data (e.g., resource data 204, and/or any other types of data). Further, the one or more memory devices 202 can include one or more non-transitory computer-readable storage media, including RAM, ROM, EEPROM, EPROM, flash memory devices, magnetic disks, and any combination thereof. The information and/or data stored by the one or more memory devices 202 can be executed by the one or more processors 220 to cause the computing device 200 to perform one or more operations described herein. The resource data 204, the rule data 206, the financial data 208, the one or more machine-learning models 209, and/or other data stored in the one or more memory devices 202 can be encrypted for added security.

[0091] The resource data 204 can include one or more portions of data (e.g., the data 118, the data 138, and/or the data 158, which are depicted in FIG. 1) and/or instructions (e.g., the instructions 120, the instructions 140, and/or the instructions 160, which are depicted in FIG. 1)

that are stored respectively in any of the one or more memory devices 116, 136, 156. The resource data 204 also can include information associated with one or more resources records, one or more entities (e.g., resource recipients, trustees, and/or executors), and/or one or more assets associated with the resources. For example, the resource data 204 can include resources planning data obtained from one or more clients.

[0092] The rule data 206 can include one or more portions of data (e.g., the data 118, the data 138, and/or the data 158, which are depicted in FIG. 1) and/or instructions (e.g., the instructions 120, the instructions 140, and/or the instructions 160, which are depicted in FIG. 1) that are stored respectively in any of the one or more memory devices 116, 136, 156. The rule data 206 can include information associated with one or more rules, one or more policies, and/or one or more regulations that can be associated with resource allocation instructions. For example, the rule data 206 can include one or more rules that determine the way in which assets associated with resources are distributed to resource recipients.

[0093] The network data 207 can include one or more portions of data (e.g., the data 118, the data 138, and/or the data 158, which are depicted in FIG. 1) and/or instructions (e.g., the instructions 120, the instructions 140, and/or the instructions 160, which are depicted in FIG. 1) that are stored respectively in any of the one or more memory devices 116, 136, 156. The network data 207 can include information associated with one or more network devices (e.g., computing devices of a network, routers, and/or switches) that can be associated with resource allocation instructions. For example, the network data 207 can include information associated with network architecture that can be used to determine the way in which assets and/or instructions associated with network resources are distributed to resource recipients.

[0094] The financial data 208 can include one or more portions of data (e.g., the data 118, the data 138, and/or the data 158, which are depicted in FIG. 1) and/or instructions (e.g., the instructions 120, the instructions 140, and/or the instructions 160, which are depicted in FIG. 1) that are stored respectively in any of the one or more memory devices 116, 136, 156. Further, the financial data 208 can include information associated with one or more predicted appreciation rates, predicted depreciation rates, rates of inflation, and/or historical financial records including one or more financial records associated with one or more assets.

[0095] In some implementations, the computing device 200 can store the one or more machine-learning models 209 that can include one or more resources planning-specific models.

In some embodiments, the one or more machine-learning model can include a model that is specifically associated with resources planning.

[0096] For example, the one or more machine-learning models 209 can be or can otherwise include various machine-learning models such as neural networks (e.g., deep neural networks) or other types of machine-learning models, including non-linear models and/or linear models.

Neural networks can include feed-forward neural networks, recurrent neural networks (e.g., long short-term memory recurrent neural networks), convolutional neural networks or other forms of neural networks. Some example machine-learning models can leverage an attention mechanism such as self-attention. For example, some example machine-learning models can include multi-headed self-attention models (e.g., transformer models).

[0097] In some implementations, the input to the one or more machine-learning models 209 (e.g., machine-learning models) of the present disclosure can be statistical data. Statistical data can be, represent, or otherwise include data computed and/or calculated from some other data source. The one or more machine-learning models 209 can process the statistical data to generate an output. As an example, the one or more machine-learning models 209 can process the statistical data to generate a threshold value for a metric. As another example, the one or more machine-learning models 209 can process the statistical data to generate a prediction output.

[0098] The one or more interconnects 214 can include one or more interconnects or buses that can be used to send and/or receive one or more signals (e.g., electronic signals) and/or data (e.g., resource data 204 and/or any other data) between components of the computing device 200, including the one or more memory devices 202, the one or more processors 220, the network interface 222, the one or more mass storage devices 224, the one or more output devices 226, and/or the one or more input devices 230. The one or more interconnects 214 can be arranged or configured in different ways. For example, the one or more interconnects 214 can be configured as parallel or serial connections. Further the one or more interconnects 214 can include one or more internal buses that are used to connect the internal components of the computing device 200 and one or more external buses used to connect the internal components of the computing device 200 to one or more external devices. By way of example, the one or more interconnects 214 can include different interfaces including Industry Standard Architecture (ISA), Extended ISA, Peripheral Components Interconnect (PCI), PCI Express, Serial AT Attachment (SATA),

HyperTransport (HT), USB (Universal Serial Bus), Thunderbolt, IEEE 1394 interface (FireWire), and/or other interfaces that can be used to connect components.

[0099] The one or more processors 220 can include one or more computer processors that are configured to execute the one or more instructions stored in the one or more memory devices 202. For example, the one or more processors 220 can, for example, include one or more general purpose central processing units (CPUs), application specific integrated circuits (ASICs), and/or one or more graphics processing units (GPUs). Further, the one or more processors 220 can perform one or more actions and/or operations including one or more actions and/or operations associated with the resource data 204 and/or any other data. The one or more processors 220 can include single or multiple core devices including a microprocessor, microcontroller, integrated circuit, and/or a logic device.

[0100] The network interface 222 can support network communications. The network interface 222 can support communication via networks including a local area network and/or a wide area network (e.g., the internet). For example, the network interface 222 can allow the computing device 200 to communicate with the computing system 110 via the network 102.

[0101] The one or more mass storage devices 224 (e.g., a hard disk drive and/or a solid-state drive) can be used to store data including the resource data 204 and one or more machine-learning models 209, and/or any other data. The one or more output devices 226 can include one or more display devices (e.g., liquid crystal display (LCD), OLED display, mini-LED display, micro-LED display, plasma display, and/or cathode ray tube (CRT) display), one or more light sources (e.g., LEDs), one or more loudspeakers, and/or one or more haptic output devices (e.g., one or more devices that are configured to generate vibratory output).

[0102] The one or more input devices 228 can include one or more touch sensitive devices (e.g., a touch screen display), a mouse, a stylus, one or more keyboards, one or more buttons (e.g., ON/OFF buttons and/or YES/NO buttons), one or more microphones, and/or one or more cameras (e.g., cameras that are used to detect gestures that can trigger one or more operations by the computing device 200). Further, the one or more input devices 228 can be used to provide input (e.g., a response to a prompt associated with resource data) that can be used as part of invoking or performing one or more operations. For example, the one or more input devices 228 can receive one or more inputs from a user (e.g., a resource advisor, wealth advisor, financial

planner, and/or resource strategist) associated with entering data in response to one or more prompts associated with resource data and generated by the computing device 200.

[0103] Although the one or more memory devices 202 and the one or more mass storage devices 224 are depicted separately in FIG. 2, the one or more memory devices 202 and the one or more mass storage devices 224 can be regions within the same memory module. The computing device 200 can include one or more additional processors, memory devices, and/or network interfaces, which may be provided separately or on the same chip or board. The one or more memory devices 202 and the one or more mass storage devices 224 can include one or more computer-readable media, including, but not limited to, non-transitory computer-readable media, RAM, ROM, hard drives, flash drives, and/or other memory devices.

[0104] The one or more memory devices 202 can store sets of instructions for applications including an operating system that can be associated with various software applications or data. For example, the one or more memory devices 202 can store sets of instructions for one or more applications (e.g., one or more resources planning applications and/or one or more third-party applications) that can be configured, generated, and/or implemented by the computing device 200 and/or one or more other computing devices or one or more computing systems. In some embodiments, the one or more memory devices 202 can be used to operate or execute a general-purpose operating system that operates on mobile computing devices and/or stationary devices, including for example, smartphones, laptop computing devices, tablet computing devices, and/or desktop computers.

[0105] The software applications that can be operated or executed by the computing device 200 can include applications associated with the computing system 110, the remote computing system 130, and/or the one or more computing devices 152 that are depicted in FIG. 1. Further, the software applications that can be operated and/or executed by the computing device 200 can include native applications, web services, and/or web-based applications.

[0106] FIG. 3 depicts a diagram of an example machine-learning model according to example embodiments of the present disclosure. The machine-learning model described with respect to FIG. 3 can be generated, implemented, configured, and/or trained by a computing system or computing device that includes one or more features of the computing system 110, the remote computing system 130, and/or the one or more computing devices 152, which are described with respect to FIG. 1; and/or the computing device 200 that is described with respect

to FIG. 2. As shown in FIG. 3, the machine-learning system 300 includes training data 302, one or more machine-learning models 304, and output 306.

[0107] The training data 302 can comprise training resource data that can comprise information associated with resources, processing resources, allocating resources, and/or generating resource allocation instructions. The training resource data can be based on historical data (e.g., data based on actual historical resources instructions and/or actual historical resources) that can comprise the historical values of assets. Further, the training data 302 can comprise training rule data that can comprise information associated with one or more rules (e.g., one or more regulations) that determine the way in which assets are treated. The training data 302 can comprise training network data that can comprise information associated with configurations of computing networks (e.g., the devices and device configurations (e.g., software, processor, memory, and/or storage configurations of computing devices) of a network). The training data 302 can comprise training estate data that can comprise information associated with training estates, training estate entities (e.g., trustees, beneficiaries, and/or testator's), training estate assets (e.g., real property, stocks, vehicles, cash, and/or tangible personal property), and/or training estate documents. Further, the training data 302 can comprise training financial data that can be based on historical financial trends and/or indicators and which can include historic interest rates, rates of inflation, and/or asset values.

[0108] The one or more machine-learning models 304 can be configured and/or trained using supervised learning, unsupervised learning, reinforcement learning, and/or semi-supervised learning. Further, the one or more machine-learning models may use one or more algorithms and/or machine-learning structures including one or more generative adversarial models (GANs), one or more large language models (LLMs), one or more generative models, one or more neural networks (e.g., convolutional neural networks), random forest, one or more decision trees, nearest neighbors, linear regression, logistic regression, K Means clustering, and/or one or more support vector machines. Additionally, the one or more machine-learning models can be configured to operate individually and/or in combination with one or more other machine-learning models of the one or more machine-learning models 304.

[0109] The one or more machine-learning models 304 can comprise one or more machine-learning asset projection models configured to generate a projected asset valuation based on input comprising resource data and/or financial data, one or more machine-learning distribution

projection models configured to generate projected asset distributions based on input comprising resource data and/or relationship data, and/or one or more machine-learning scenario models configured to generate one or more scenarios based on input comprising resource data and/or one or more conditions. The one or more machine-learning asset projection models can be configured and/or trained based on training data comprising a plurality of training asset valuations, training resource data, training asset data, and a plurality of ground-truth asset valuations based on the same training resource data and training asset data. The one or more machine-learning distribution projection models can be configured and/or trained based on training data comprising training entity data, training resource data, training asset data, and a plurality of ground-truth asset distributions based on the same training resource data, training asset data, and training entity data. The one or more machine-learning scenario models can be configured and/or trained based on training data comprising a plurality of training conditions, training resource data, and a plurality of ground-truth scenarios based on the same training conditions and training resource data.

[0110] The one or more machine-learning models 304 can comprise a plurality of parameters associated with a plurality of weights that can be modified as the one or more machine-learning models 304 are configured and/or trained. Configuring and/or training the one or more machine-learning models 304 can comprise modifying the weights associated with the plurality of parameters based on how much each of the plurality of parameters contributes to increasing or decreasing the accuracy of output generated by the one or more machine-learning models 304. The accuracy of the output generated by the one or more machine-learning models 304 can be associated with error. For example, the accuracy of the output of the one or more machine-learning models 304 can be inversely correlated with the error such that higher accuracy corresponds to low error and low accuracy corresponds to high error.

[0111] For example, the one or more machine-learning models 304 can comprise a plurality of parameters corresponding to a plurality of assets associated with corresponding asset values. In the process of training the one or more machine-learning models 304, the weighting of the plurality of parameters can be modified based on the extent to which each of the plurality of parameters contributes to accurately predicting the asset values of the assets at one or more times.

[0112] For example, based on input comprising the asset values of an asset from a first calendar year the one or more machine-learning models 304 can generate predicted asset values of the asset in a second calendar year. The ground-truth asset values can comprise the actual historical asset values of the same asset in the first calendar year (which will match the asset value inputted into the one or more machine-learning models 304) and the second calendar year. The predicted asset value of the asset in the second calendar year can be compared to the actual historical value of the asset in the second calendar year and the plurality of parameters can be modified based on the differences between the predicted asset value and the ground-truth actual historical asset value. The differences between the predicted asset value and the ground-truth actual historical asset value can be associated with an error which can be based on an amount of inaccuracy of the predicted asset value. A greater inaccuracy of the predicted asset value can correspond to a higher error and a lower inaccuracy of the predicted asset value can correspond to a lower error.

[0113] Configuring and/or training the one or more machine-learning models 304 can comprise the use of a cost function that can be used to minimize the error (e.g., inaccuracy) of the output of the one or more machine-learning models 304 with respect to a set of ground truth values corresponding to accurate output. For example, the training data can comprise a plurality of asset distributions associated with a plurality of resources and resources plans. The ground-truth data may indicate values associated with actual asset distributions. Accurate output by the one or more machine-learning models 304 can comprise accurately determining the asset distributions associated with the corresponding plurality of resources and resources plans. Inaccurate output by the one or more machine-learning models 304 can comprise not accurately determining the asset distributions associated with the corresponding plurality of resources and resources plans. As the one or more machine-learning models 304 are configured and/or trained, the weighting of the plurality of parameters of the one or more machine-learning models 304 can be modified until the error associated with the output of the one or more machine-learning models 304 is minimized to a predetermined level (e.g., a level associated with generating output that is at least 95% accurate). Configuring and/or training the one or more machine-learning models 304 can be performed over a plurality of rounds and/or iterations. Further, configuring and/or training the one or more machine-learning models 304 can end when a predetermined level of accuracy of the one or more machine-learning models 304 is achieved. Additionally, the

one or more machine-learning models 304 can be periodically retrained based on updated training data. For example, with the passage of time additional training data based on new historical data associated with resources and/or resources plans can be added to the training data. Further, synthetic training data based on historical training data can be generated using one or more synthetic data generation techniques in which the synthetic training data can have statistical properties that are similar to the statistical properties of actual historical data.

[0114] FIG. 4 depicts an example of an interface for generating projected asset valuations according to example embodiments of the present disclosure. A computing device 400 can include one or more attributes and/or capabilities of the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Furthermore, the computing device 400 can be configured to perform one or more operations and/or one or more actions that can be performed by the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200.

[0115] As shown in FIG. 4, the computing device 400 includes a display component 402, an interface 404, an interface element 406, an interface element 408, and an interface element 410.

[0116] The computing device 400 can include the display component 402 which can be configured to generate output comprising the interface (e.g., a graphical user interface) and content related to resource data (e.g., projected asset valuations) that can be displayed on the interface 404. The output generated by the computing device 400 can comprise one or more projected asset valuations of one or more assets (e.g., one or more assets associated with resources that are indicated in resource data). For example, the computing device 400 can access resource data that indicates the assets associated with resources and/or resource allocation instructions, and the estimated value of the assets (e.g., the fair market value and/or appraised value of the assets).

[0117] The computing device 400 can access the resource data associated with the assets and values of the assets based on one or more inputs to the interface 404. Further, the interface 404 can comprise interface elements that are configured to receive one or more inputs to cause the computing device 400 to perform operations associated with the interface element. For example, the computing device can implement a resource management application that maintains a database associated with one or more assets associated with resource data and/or resource

allocation instructions, and/or the one or more entities (e.g., resource recipients) that are associated with the one or more assets. Based on the computing device 400 receiving one or more inputs to determine the projected value of a selected asset (e.g., real property comprising land and a house at a particular address) at a selected time in the future (e.g., “2040”), the computing device 400 can determine a projected value of the particular asset at the particular time. In this example, the selected asset is indicated in the interface element 406 “ASSET: HOUSE AT 124 MAIN STREET”) which identifies the asset. Further, the computing device 400 can access data (e.g., resource data) and determine the current value of the asset (“\$940,000.00”) which is indicated in the interface element 408 (“CURRENT VALUE: \$940,000.00”). In some embodiments, the computing device 400 can access data from a remote source (e.g., a remote database that stores estimated current values of various types of assets including real property).

[0118] Based on the current value of the selected asset and the selected time in the future (the year “2040”), the projected value of the selected asset can be determined and indicated in the interface element 410 (“PROJECTED ASSET VALUATION [2040]: \$1,850,000.00”). For example, the computing device 400 can input data (e.g., input data) into one or more machine-learning models that are configured and/or trained to generate output comprising one or more projected asset valuations. In some embodiments, the computing device 400 can generate the one or more projected asset valuations based on the performance of one or more operations associated with rules-based processing of the resource data. For example, the computing device 400 can determine the one or more projected asset valuations based on the current values of the one or more assets and one or more predicted appreciation or depreciation rates based on historical asset values.

[0119] In this example, the projected asset valuation of the selected asset (e.g., the “HOUSE AT 124 MAIN STREET”) is \$1,850,000.00. In some embodiments, the projected asset valuation can comprise a range of values. For example, the projected asset valuation range for the selected asset could be in the range of \$1,500,000.00 to \$2,000,000.00. Further, the projected asset valuation can be associated with additional information such as a margin of error and/or confidence value.

[0120] FIG. 5 depicts an example of an interface for generating projected asset distributions according to example embodiments of the present disclosure. A computing device 500 can

include one or more attributes and/or capabilities of the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Furthermore, the computing device 500 can be configured to perform one or more operations and/or one or more actions that can be performed by the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200.

[0121] As shown in FIG. 5, the computing device 500 includes a display component 502, an interface 504, an interface element 506, an interface element 508, an interface element 510, and an interface element 512.

[0122] The computing device 500 can include the display component 502 which can be configured to generate output comprising the interface (e.g., a graphical user interface) and content related to resource data (e.g., projected asset distributions) that can be displayed on the interface 504. The output generated by the computing device 500 can comprise one or more projected asset distributions of a plurality of assets of a plurality of resource recipients (e.g., six assets that are distributed to three resource recipients). For example, the computing device 500 can access resource data that indicates the assets associated with resource allocation instructions, the resource recipients of the resources, and/or the resource allocation instructions which include one or more rules (e.g., rules associated with provisions of a will or trust) for the distribution of the assets to the resource recipients.

[0123] The computing device 500 can access resource data associated with the assets, resource recipients, and/or projected asset distributions based on one or more inputs to the interface 504. Further, the interface 504 can comprise interface elements that are configured to receive one or more inputs to cause the computing device 500 to perform operations associated with the corresponding interface element. For example, the computing device can implement a resource management application that maintains a database associated with one or more assets associated with resources and the one or more entities (e.g., resource recipients) that are associated with the one or more assets. Based on the computing device 500 receiving one or more inputs to determine the projected asset distribution associated with a selected asset and/or one or more selected resource recipients at a selected time in the future (e.g., “2040”) and based on various resource data including one or more relationships between the one or more resource recipients, the computing device 500 can determine a projected asset distribution at the particular

time. In this example, the projected time is indicated in the interface element 512 (“2040”) which indicates the year associated with the projected distribution. Further, the computing device 500 can access data (e.g., resource data) and determine the resource recipients associated with assets associated with resources. In some embodiments, the computing device 500 can access resource data from a remote source (e.g., a remote database that stores the names of the resource recipients and the assets that the resource recipients can receive).

[0124] Based on the resource recipients associated with the assets and the selected time in the future (“2040”), the projected asset distribution can be determined and indicated in the interface elements 506-510. For example, the computing device 500 can input data (e.g., input data) into one or more machine-learning models that are configured and/or trained to generate output comprising one or more projected asset distributions. In some embodiments, the computing device 500 can generate the one or more projected asset distributions based on the performance of one or more operations associated with rules-based processing of the resource data.

[0125] In this example, the projected asset distribution of the assets are indicated in the interface elements 506-510 that are generated in the interface 504. The interface element 506 indicates that a first resource recipient (“J. KHAN”) is projected to receive property (“PROPERTY 1”) and a vehicle (“VEHICLE 1”). The interface element 508 indicates that a second resource recipient (“P. CHEUNG”) is projected to receive property (“PROPERTY 2”) and a vehicle (“VEHICLE 2”). Further, the interface element 510 indicates that a third resource recipient (“G. CHEUNG”) is projected to receive securities (“STOCK 1”) and cash (“\$40,000 CASH”). In some embodiments, specific details associated with the projected assets and/or resource recipients can be indicated. For example, the interface element 506 can indicate an address of the property, an estimated value of the property, the type of vehicle (e.g., a car, boat, or airplane), the make or model of the vehicle, or the estimated value of the vehicle. Further, the interface element 510 can indicate the value of the stocks, and/or identify the specific stocks.

[0126] FIG. 6 depicts an example of an interface for generating resources scenarios according to example embodiments of the present disclosure. A computing device 600 can include one or more attributes and/or capabilities of the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Furthermore, the computing device 600 can be configured to perform one or more

operations and/or one or more actions that can be performed by the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200.

[0127] As shown in FIG. 6, the computing device 600 includes a display component 602, an interface 604, an interface element 606, an interface element 608, an interface element 610, a region 612, a region 614, an interface element 616, an interface element 618, and an interface element 620.

[0128] The computing device 600 can include the display component 602 which can be configured to generate output comprising the interface (e.g., a graphical user interface) and content related to resource data (e.g., resources scenarios) that can be displayed on the interface 604. The output generated by the computing device 600 can comprise a plurality of scenarios that can be based on one or more conditions associated with resource data. For example, the computing device 600 can access resource data that indicates one or more entities associated with resources and/or one or more assets of the resources. The resource data can comprise various information associated with the one or more entities including a time of hire of an entity; a projected retirement date of an entity; a date of birth of an entity (e.g., a testator associated with an estate a network administrator associated with a network of computing devices); and/or a planned retirement age and/or date.

[0129] The computing device 600 can access the resource data based on one or more inputs to the interface 604. Further, the interface 604 can comprise interface elements that are configured to receive one or more inputs to cause the computing device 600 to perform operations associated with the corresponding interface element. For example, the computing device can implement a resource management application that maintains a database associated with one or more assets of resources and the one or more entities (e.g., a testator and one or more resource recipients) that are associated with the one or more assets. Based on the computing device 600 receiving one or more inputs to determine the plurality of scenarios based on one or more conditions, the computing device 600 can determine the plurality of scenarios based on the one or more conditions. In this example, the one or more conditions can comprise a planned retirement age of the entity (e.g., retirement age of a testator and/or a network administrator).

[0130] Based on the one or more conditions comprising the planned retirement age of the testator, the computing device 600 can generate a plurality of scenarios comprising "SCENARIO

1” which is indicated in the region 612 of the interface 604 and “SCENARIO 2” which is indicated in the region 614 of the interface 604. The computing device 600 can generate the scenarios based on inputting data (e.g., input data) into one or more machine-learning models that are configured and/or trained to generate output comprising one or more scenarios. The input data can comprise information associated with the one or more conditions (e.g., a retirement age of the testator and/or network administrator) and resource data comprising one or more assets of the resources, one or more resource recipients of the resources, rule data indicating one or more rules associated with the resources including projected taxes, projected resources fees, and/or a projected distribution of the assets to the one or more resource recipients. Further, the one or more machine-learning models can be configured and/or trained to determine projected values of the assets based on factors including projected inflation, appreciation of asset values, depreciation of asset values, future taxes, future fees, and/or potential expenses (e.g., medical expenses). The one or more machine-learning models can be configured and/or trained based on training data that can comprise a plurality of training resource data, a plurality of training conditions, a plurality of training rule data, a plurality of scenarios and a corresponding plurality of ground-truth scenarios.

[0131] In some embodiments, the computing device 600 can generate the one or more projected asset valuations based on the performance of one or more operations associated with rules-based processing of the resource data. For example, the computing device 600 can access information associated with an estimated appreciation and/or depreciation rate of the one or more assets of the resources based on the one or more conditions (e.g., the planned retirement age of the testator and/or network administrator). Using the rules-based approach to processing the resource data, the computing device 600 can determine that the total value of the assets can be associated with the retirement age of the entity (e.g., a testator or network administrator) such that the value of the assets is based on the age at which the entity retires. For example, if a testator retires at an older age the value of assets (e.g., assets of an estate) can appreciate and be greater than if the testator retires at a younger age. By way of further example, the value of assets (e.g., computing devices of a network) can depreciate and be lower if a network administrator retires at an older age than if the network administrator retires at a younger age. Further, the computing device 600 can use one or more statistical techniques (e.g., linear regression) to generate the one or more scenarios.

[0132] In this example, scenario 1, indicated in the region 612 is based on a first condition (“CONDITION 1: ENTITY RETIRES AT AGE 65”) indicated in the interface element 606 in which an entity (e.g., a testator of an estate) retires at the age of 65. Further, in the first scenario under the first condition, the interface element 608 indicates that the first resource recipient “L. NOVAK” may receive “ASSET 1” (e.g., a real property) valued at \$500,000 and “ASSET 2” (e.g., stocks) valued at \$100,000. Additionally, in the first scenario under the first condition, the interface element 610 indicates that the second resource recipient “I. FEI” may receive “ASSET 3” (e.g., a real property) valued at \$350,000 and “ASSET 4” (e.g., bonds) valued at \$150,000.

[0133] In scenario 2, indicated in the region 614 is based on a second condition (“CONDITION 2: ENTITY RETIRES AT AGE 75”) indicated in the interface element 616 in which the entity (e.g., a testator) retires at the age of 75. Further, in the second scenario under the second condition, the interface element 618 indicates that the first resource recipient “L. NOVAK” may receive “ASSET 1” (e.g., a real property) valued at \$750,000 and “ASSET 2” (e.g., stocks) valued at \$150,000. Further, in the second scenario under the second condition, the interface element 620 indicates that the second resource recipient “I. FEI” may receive “ASSET 3” (e.g., a real property) valued at \$525,000 and “ASSET 4” (e.g., bonds) valued at \$225,000.

[0134] FIG. 7A depicts an example of an interface for generating event notifications according to example embodiments of the present disclosure. A computing device 700 can include one or more attributes and/or capabilities of the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Furthermore, the computing device 700 can be configured to perform one or more operations and/or one or more actions that can be performed by the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200.

[0135] As shown in FIG. 7A, the computing device 700 includes a display component 702, an interface 704, an interface element 706, an interface element 708, an interface element 710, and an interface element 712.

[0136] The computing device 700 can include the display component 702 which can be configured to generate output comprising the interface (e.g., event notifications) and content related to resource data (e.g., projected asset valuations) that is displayed on the interface 704. The output generated by the computing device 700 can comprise one or more event notifications

associated with one or more events. For example, the computing device 700 can access event data associated with one or more events and/or resource data associated with resources.

[0137] The computing device 700 can implement a resource management application that is configured to receive event data via a network (e.g., a wireless network such as the network 102) and generate an event notification that can be indicated in the interface 704. In this example, the interface element 706 comprises an event notification that indicates that a particular event (“THE PRIMARY RESOURCE RECIPIENT GOT MARRIED”) has occurred. In some embodiments, the resource management application can operate as a process in the background of the operating system of the computing device 700 and generate one or more notifications when the resource management application is not actively being used by a user. In some embodiments, the computing device 700 can be configured to generate one or more auditory notifications (e.g., a chime or short portion of music) when event data associated with an event is received. Further, a computing device that generates the event data can be configured to send the event data to other computing devices that are associated with an entity that is authorized to receive the one or more event notifications. For example, the event data can be sent to the computing device (e.g., smart phone) of a lawyer that is the executor of an estate.

[0138] Further, based on receiving the event data, the computing device 700 can access resource data associated with the entity that is associated with the event notification and generate the interface element 708, which indicates that the primary resource recipient is named “J. DORNE” who is “32” years of age, has an address of “123 CHERRY LANE” and has contact information (a phone number) of “123-456-7890.” Further, the computing device 700 can generate the interface element 710 which indicates “TEXT THE PRIMARY RESOURCE RECIPIENT” and can be configured to send a text message to the primary resource recipient (e.g., “J. DORNE”) based on the entity information indicated in the interface element 708. The computing device 700 can also generate the interface element 712 which indicates “CALL THE PRIMARY RESOURCE RECIPIENT” and can be configured to make a telephone call to the primary resource recipient (e.g., “J. DORNE”) based on the entity information indicated in the interface element 708.

[0139] FIG. 7B depicts an example of an interface for generating event notifications according to example embodiments of the present disclosure. A computing device 700 can include one or more attributes and/or capabilities of the computing system 110, the remote

computing system 130, the one or more computing devices 152, and/or the computing device 200. Furthermore, the computing device 700 can be configured to perform one or more operations and/or one or more actions that can be performed by the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200.

[0140] As shown in FIG. 7B, the computing device 700 includes a display component 702, an interface 704, an interface element 706, an interface element 708, an interface element 710, and an interface element 712.

[0141] The computing device 700 can include the display component 702 which can be configured to generate output comprising the interface (e.g., event notifications) and content related to resource data (e.g., projected asset valuations) that is displayed on the interface 704. The output generated by the computing device 700 can comprise one or more event notifications associated with one or more events. For example, the computing device 700 can access event data associated with one or more events and/or resource data associated with resources.

[0142] The computing device 700 can implement a resource management application that is configured to receive event data via a network (e.g., a wireless network such as the network 102) and generate an event notification that can be indicated in the interface 704. In this example, the interface element 706 comprises an event notification that indicates that a particular event (“COMPUTING DEVICE 1088 IS OFFLINE”) has occurred (e.g., a server computing device in a server computing center is offline). In some embodiments, the resource management application can operate as a process in the background of the operating system of the computing device 700 and generate one or more notifications when the resource management application is not actively being used by a user. In some embodiments, the computing device 700 can be configured to generate one or more auditory notifications (e.g., a chime or short portion of music) when event data associated with an event is received. Further, a computing device that generates the event data can be configured to send the event data to other computing devices that are associated with an entity that is authorized to receive the one or more event notifications. For example, the event data can be sent to the computing device (e.g., smart phone) of a network administrator, who is the administrator of a computer network.

[0143] Further, based on receiving the event data, the computing device 700 can access resource data associated with the entity that is associated with the event notification and generate

the interface element 708, which indicates that the primary resource recipient is named “COMPUTING DEVICE 1088 INFORMATION” that the service life of the server computing device is “28 MONTHS,” that the IP address associated with the server computing device is “255.255.255.255,” and that the primary recipients contact information (e.g., the network administrator’s telephone number) is “123-456-7890.” Further, the computing device 700 can generate the interface element 710 which indicates “TEXT THE PRIMARY RESOURCE RECIPIENT” and can be configured to send a text message to the primary resource recipient (e.g., a network administrator) based on the entity information indicated in the interface element 708. The computing device 700 can also generate the interface element 712 which indicates “CALL THE PRIMARY RESOURCE RECIPIENT” and can be configured to make a telephone call to the primary resource recipient (e.g., a network administrator) based on the entity information indicated in the interface element 708.

[0144] FIG. 8A depicts an example of an interface for generating rule modification notifications according to example embodiments of the present disclosure. A computing device 800 can include one or more attributes and/or capabilities of the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Furthermore, the computing device 800 can be configured to perform one or more operations and/or one or more actions that can be performed by the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200.

[0145] As shown in FIG. 8A, the computing device 800 includes a display component 802, an interface 804, an interface element 806, an interface element 808, an interface element 810, and an interface element 812.

[0146] The computing device 800 can include the display component 802 which can be configured to generate output comprising the interface (e.g., a graphical user interface) and content related to resource data (e.g., rule modification notifications) that can be displayed on the interface 804. The output generated by the computing device 800 can comprise one or more rule modification notifications associated with one or more modifications of one or more regulations. For example, the computing device 800 can receive data associated with one or more rule modifications (e.g., changes in one or more laws) that are associated with resources and/or that could have an effect on one or more assets and/or one or more entities associated with the

resources. Based on receiving the data associated with one or more modifications of one or more regulations, the computing device 800 can access resource data and determine that the increase in the probate tax may affect the future value of one or more assets of resources. Based on the data associated with one or more modifications of one or more regulations and/or the resource data, the computing device 800 can generate one or more rule modification notifications that can indicate one or more regulations that have been or may be likely to be modified.

[0147] In this example, the computing device 800 can implement a resource management application that is configured to receive data associated with one or more modifications of one or more regulations via a network (e.g., a wireless network such as the network 102) and generate the rule modification notification that can be indicated in the interface 804. Further, the interface element 806 comprises a rule modification notification that indicates that a particular regulation will soon be modified. In particular, the interface element 806 indicates “THE PROBATE TAX THAT WILL BE APPLIED TO THE TILSON RESOURCES WILL BE INCREASED IN 1 YEAR.” In some embodiments, the resource management application can operate as a process in the background of the operating system of the computing device 800 and generate one or more rule modification notifications when the resource management application is not actively being used by a user. In some embodiments, the computing device 800 can be configured to generate one or more auditory notifications (e.g., a beep or brief announcement) when one or more rule modification notifications associated with a rule modification are received. Further, a computing device that generates the one or more rule modification notifications can be configured to send the one or more rule modification notifications to other computing devices that are associated with an entity that is authorized to receive the one or more rule modification notifications. For example, one or more rule modification notifications can be sent to the computing device (e.g., smart phone) of a resource manager that is associated with resources.

[0148] Further, based on receiving the data associated with one or more modifications of one or more regulations, the computing device 800 can access resource data associated with the resources that is associated with the rule modification notification and generate the interface element 808, which indicates “RULE MODIFICATION INFORMATION” including that the rule is associated with “PROBATE TAX” that the modification of the rule is that the probate tax will be “DECREASED BY 0.5%” and that the rule applies to assets in “ILLINOIS” in the “UNITED STATES.” The computing device 800 can generate rule modification information

indicating “THE TIME OF RULE MODIFICATION: JULY 7” which indicates a time at which the change in the probate tax rate may occur.

[0149] Further, the computing device 800 can generate the interface element 810 which indicates “TEXT THE RESOURCE MANAGER” and can be configured to send a text message to a resource manager (e.g., an estate manager) of the resources (e.g., resources comprising assets of an estate) associated with the rule modification notification. The computing device 800 can also generate the interface element 812 which indicates “CALL THE RESOURCE MANAGER” and can be configured to make a telephone call to the resource manager of the resources associated with the rule modification notification.

[0150] FIG. 8B depicts an example of an interface for generating rule modification notifications according to example embodiments of the present disclosure. A computing device 800 can include one or more attributes and/or capabilities of the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Furthermore, the computing device 800 can be configured to perform one or more operations and/or one or more actions that can be performed by the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200.

[0151] As shown in FIG. 8B, the computing device 800 includes a display component 802, an interface 804, an interface element 806, an interface element 808, an interface element 810, and an interface element 812.

[0152] The computing device 800 can include the display component 802 which can be configured to generate output comprising the interface (e.g., a graphical user interface) and content related to resource data (e.g., rule modification notifications) that can be displayed on the interface 804. The output generated by the computing device 800 can comprise one or more rule modification notifications associated with one or more modifications of one or more regulations. For example, the computing device 800 can receive data associated with one or more rule modifications (e.g., changes in one or more access policies for computing devices) that are associated with resources and/or that could have an effect on one or more assets and/or one or more entities associated with the resources. Based on receiving the data associated with one or more modifications of one or more regulations, the computing device 800 can access resource data and determine that the change in the access policy may affect the future value of one or

more assets of resources. For example, a 2-factor authentication policy may result in more technical support calls and/or reduce usage of affected computing devices. The net value of computing devices can be based on the value derived from users using the computing device to perform revenue generating activities minus the costs to purchase and maintain the computing devices. Increasing the costs to maintain the computing devices (e.g., more technical support calls) and reducing user usage of the computing devices can reduce the net value of the computing assets. Based on the data associated with one or more modifications of one or more regulations and/or the resource data, the computing device 800 can generate one or more rule modification notifications that can indicate one or more regulations that have been or may be likely to be modified.

[0153] In this example, the computing device 800 can implement a resource management application that is configured to receive data associated with one or more modifications of one or more regulations via a network (e.g., a wireless network such as the network 102) and generate the rule modification notification that can be indicated in the interface 804. Further, the interface element 806 comprises a rule modification notification that indicates that a particular regulation (e.g., access policy) will soon be modified. In particular, the interface element 806 indicates “THE ACCESS POLICY FOR ALL USERS HAS CHANGED.” In some embodiments, the resource management application can operate as a process in the background of the operating system of the computing device 800 and generate one or more rule modification notifications when the resource management application is not actively being used by a user. In some embodiments, the computing device 800 can be configured to generate one or more auditory notifications (e.g., a beep or brief announcement) when one or more rule modification notifications associated with a rule modification are received. Further, a computing device that generates the one or more rule modification notifications can be configured to send the one or more rule modification notifications to other computing devices that are associated with an entity that is authorized to receive the one or more rule modification notifications. For example, one or more rule modification notifications can be sent to the computing device (e.g., smart phone) of a resource manager that is associated with resources.

[0154] Further, based on receiving the data associated with one or more modifications of one or more regulations, the computing device 800 can access resource data associated with the resources that is associated with the rule modification notification and generate the interface

element 808, which indicates “RULE MODIFICATION INFORMATION” including that the rule is associated with “2-FACTOR AUTHENTICATION” that the rule applies to assets (e.g., computing devices) in the “CHICAGO OFFICE.” The computing device 800 can generate rule modification information indicating “THE TIME OF RULE MODIFICATION: JUNE 18” which indicates a time at which the change in the access policy may occur.

[0155] Further, the computing device 800 can generate the interface element 810 which indicates “TEXT THE NETWORK ADMINISTRATOR” and can be configured to send a text message to a resource manager (e.g., network administrator) of the resources associated with the rule modification notification. The computing device 800 can also generate the interface element 812 which indicates “CALL THE NETWORK ADMINISTRATOR” and can be configured to make a telephone call to the resource manager (e.g., network administrator) of the resources associated with the rule modification notification.

[0156] FIG. 9 depicts a flow diagram of generating resource data according to example embodiments of the present disclosure. One or more portions of the method 1000 can be executed and/or implemented on one or more computing devices or computing systems including, for example, the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Further, one or more portions of the method 1000 can be executed or implemented as an algorithm on the hardware devices or systems disclosed herein. FIG. 10 depicts steps performed in a particular order for purposes of illustration and discussion. Those of ordinary skill in the art, using the disclosures provided herein, will understand that various steps of any of the methods disclosed herein can be adapted, modified, rearranged, omitted, and/or expanded without deviating from the scope of the present disclosure.

[0157] At 902, the method 900 can include generating one or more prompts comprising requests for information associated with resource allocation instructions for distribution of resources. The one or more prompts can be based on one or more resource documents associated with the resources. The one or more resource documents comprise one or more resource document fields. The resource allocation instructions can be associated with distribution of one or more assets of the resources to one or more entities that can comprise one or more resource recipients. For example, the computing system 110 can generate the one or more prompts based on parsing (e.g., using optical character recognition techniques and natural language processing

techniques) the one or more resource documents associated with the resources. In some embodiments, the one or more prompts can be associated with the processing and/or allocation of computing resources. In some embodiments, the one or more prompts can be associated with the distribution of one or more assets of an estate to one or more entities associated with the estate (e.g., one or more beneficiaries).

[0158] At 904, the method 900 can include receiving one or more responses to the one or more prompts. For example, the computing system 110 can receive one or more responses via a user interface generated by the computing system 110. Further, the one or more responses can include a combination of textual and/or numerical information.

[0159] At 906, the method 900 can include generating resource data based on one or more responses and/or rule data that can comprise one or more rules associated with the resources. The resource data can comprise one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields. The one or more resource data fields are based on the one or more resource document fields. The one or more resource data field values are based on the one or more responses. For example, the computing system 110 can generate the resource data based on inputting the one or more responses to the one or more prompts and rule data associated with the resource data into one or more machine-learning models that are configured and/or trained to generate the resource data.

[0160] At 908, the method 900 can include generating based on the resource data, one or more indications associated with the resource allocation instructions. The one or more indications can comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients. For example, the computing system 110 can generate one or more indications comprising a text-based indication of the assets to be distributed to various resource recipients based on the current resources allocation instructions.

[0161] FIG. 10 depicts a flow diagram of generating resource data according to example embodiments of the present disclosure. One or more portions of the method 1000 can be executed and/or implemented on one or more computing devices or computing systems including, for example, the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Further, one or more portions of the method 1000 can be executed or implemented as an algorithm on the hardware devices or systems disclosed herein. In some embodiments, one or more portions of the method 1000 can

be performed as part of the method 900 that is described with respect to FIG. 9. FIG. 10 depicts steps performed in a particular order for purposes of illustration and discussion. Those of ordinary skill in the art, using the disclosures provided herein, will understand that various steps of any of the methods disclosed herein can be adapted, modified, rearranged, omitted, and/or expanded without deviating from the scope of the present disclosure.

[0162] At 1002, the method 1000 can include receiving an asset valuation request associated with a projected asset valuation of one or more assets. For example, the computing system 110 can receive data comprising an asset valuation request associated with the projected value of a house ten years from the current date.

[0163] At 1004, the method 1000 can include determining based on the resource data, the projected asset valuation of the one or more assets. The one or more indications associated with the resource allocation instructions comprise the projected asset valuation of the one or more assets. For example, the computing system 110 can implement a machine-learning model that is configured and/or trained to receive the resource data and the asset valuation request as input and generate output comprising the projected asset valuation of the one or more assets.

[0164] At 1006, the method 1000 can include receiving an asset distribution request associated with a projected asset distribution of the one or more assets to the one or more entities. For example, the computing system 110 can receive data comprising an asset distribution request associated with the projected asset distribution of resources to four resource recipients based on the current resources plan.

[0165] At 1008, the method 1000 can include determining based on the resource data, one or more relationships between the one or more entities. For example, the computing system 110 can determine the one or more relationships based on the resource data comprising the names of the resource recipients that can receive assets (e.g., be assigned to computing devices) based on their relation to other resource recipients (e.g., manager-client relationship, employer-employee relationship, and/or administrator-user relationship). By way of further example, the computing system 110 can determine the one or more relationships based on the resource data comprising the names of the resource recipients and the children of resource recipients that can receive assets based on their relation to their parents and/or direct conveyance of assets in the resource allocation instructions.

[0166] At 1010, the method 1000 can include determining based on the resource data and the one or more relationships between the one or more entities, a plurality of projected asset distributions of the one or more assets to the one or more entities. The one or more indications associated with the resource allocation instructions comprise the plurality of projected asset distributions of the one or more assets to the one or more entities. For example, the computing system 110 can implement a machine-learning model that is configured and/or trained to receive input comprising the resource data and data associated with the one or more relationships asset valuation request as input and generate output comprising the projected asset distributions of the one or more assets to the one or more entities.

[0167] At 1012, the method 1000 can include receiving one or more conditions associated with the one or more entities or the one or more assets. For example, the computing system 110 can receive data comprising one or more conditions comprising a planned retirement age of a network administrator, a planned end of service date for computing devices, a life expectancy of a testator, and/or the end date of a lease on a property owned by the testator.

[0168] At 1014, the method 1000 can include determining one or more scenarios associated with the one or more conditions. The one or more scenarios comprise one or more projected valuations of the one or more assets or one or more predicted distributions of the one or more assets to the one or more resource recipients. The one or more indications associated with the resource allocation instructions comprise the one or more scenarios associated with the one or more scenarios. For example, the computing system 110 can use one or more rules-based techniques to determine a scenario that indicates the future value of real property based on conditions including the current value of the property and the life expectancies of the testator that owns the property and the primary resource recipient of the property. By way of further example, the computing system 110 can use one or more rules-based techniques to determine a scenario that indicates the future value of computing devices based on conditions including the current value of the computing devices and the mean time before failure of the computing devices. In some implementations, the computing system 110 can determine one or more scenarios based on implementing a machine-learning model that is configured and/or trained to receive input comprising the resource data and data associated with the one or more conditions as input and generate output comprising the one or more scenarios.

[0169] FIG. 11 depicts a flow diagram of generating resource data according to example embodiments of the present disclosure. One or more portions of the method 1000 can be executed and/or implemented on one or more computing devices or computing systems including, for example, the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Further, one or more portions of the method 1000 can be executed or implemented as an algorithm on the hardware devices or systems disclosed herein. In some embodiments, one or more portions of the method 1100 can be performed as part of the method 900 that is described with respect to FIG. 9. FIG. 10 depicts steps performed in a particular order for purposes of illustration and discussion. Those of ordinary skill in the art, using the disclosures provided herein, will understand that various steps of any of the methods disclosed herein can be adapted, modified, rearranged, omitted, and/or expanded without deviating from the scope of the present disclosure.

[0170] At 1102, the method 1100 can include receiving event data comprising information associated with a plurality of events associated with the resources. In some embodiments, the event data can be included as part of the resource data and/or added to the resource data. For example, the computing system 110 can receive event data comprising information associated with adding a computing device to a network, removing a computing device from a network, and/or the birth of a child of a resource recipient.

[0171] At 1104, the method 1100 can include determining based on resource data comprising information associated with a plurality of events associated with the resources, whether one or more events of the plurality of events satisfy one or more event criteria. For example, the computing system 110 can access data associated with one or more event criteria (e.g., event criteria data). The event criteria data can comprise one or more qualifying events that, contingent on the qualifying event occurring, may satisfy the one or more event criteria. For example, the one or more qualifying events can comprise adding a device to a network, removing a device from a network, changing the configuration of a device, changing the entity to whom a device is assigned (e.g., smartphone assignment for employees of an organization), the birth of a child of a resource recipient and/or a resource recipient reaching the age of majority.

[0172] At 1106, the method 1100 can include generating one or more event notifications associated with the one or more events that satisfy the one or more event criteria. The one or more indications associated with the resource allocation instructions comprise the one or more

event notifications. For example, based on the event that satisfies the one or more event criteria comprising the birth of a child of a resource recipient, the computing system 110 can generate one or more event notifications indicating that a child of the resource recipient was born. By way of further example, based on the event that satisfies the one or more event criteria comprising the addition of a computing device of a resource recipient, the computing system 110 can generate one or more event notifications indicating that a computing device was assigned to a resource recipient.

[0173] At 1108, the method 1100 can include sending the one or more event notifications to one or more remote computing devices associated with an entity that is authorized to receive the one or more event notifications. For example, the computing system 110 can send the one or more event notifications to an entity that is authorized to receive the one or more event notifications such as a network administrator that operates the resources of a computing network. By way of further example, the computing system 110 can send the one or more event notifications to an entity that is authorized to receive the one or more event notifications such as a network administrator and/or a lawyer that is the executor of the resources of an estate. Further, the one or more event notifications can be sent via a network (e.g., the network 102).

[0174] FIG. 12 depicts a flow diagram of generating resource data according to example embodiments of the present disclosure. One or more portions of the method 1000 can be executed and/or implemented on one or more computing devices or computing systems including, for example, the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Further, one or more portions of the method 1000 can be executed or implemented as an algorithm on the hardware devices or systems disclosed herein. In some embodiments, one or more portions of the method 1200 can be performed as part of the method 900 that is described with respect to FIG. 9. FIG. 10 depicts steps performed in a particular order for purposes of illustration and discussion. Those of ordinary skill in the art, using the disclosures provided herein, will understand that various steps of any of the methods disclosed herein can be adapted, modified, rearranged, omitted, and/or expanded without deviating from the scope of the present disclosure.

[0175] At 1202, the method 1200 can include determining one or more locations associated with the one or more assets. Determining the one or more locations can be based on location information associated with and/or included in the resource data. The one or more locations can

comprise one or more administrative divisions (e.g., nations, states, and/or provinces). For example, the computing system 110 can determine, based on the address of an asset comprising real property, the location of the real property. Further, the computing system 110 can determine, based on boat registration information, the address of an asset comprising a yacht, the location of the yacht. By way of further example, the computing system 110 can determine, based on the network address associated with an asset comprising a computing device, the location of the computing device (e.g., physical location and/or IP address).

[0176] At 1204, the method 1200 can include determining the one or more rules associated with the one or more locations. For example, the computing system 110 can access one or rules that can be associated with and/or based on one or more laws of a location. The one or more rules regarding the network access policies, probate tax, and/or probate fees payable for assets of resources in one location (e.g., in the state of California in the United States) may be different from the one or more rules in another state of the United States.

[0177] FIG. 13 depicts a flow diagram of generating resource data according to example embodiments of the present disclosure. One or more portions of the method 1000 can be executed and/or implemented on one or more computing devices or computing systems including, for example, the computing system 110, the remote computing system 130, the one or more computing devices 152, and/or the computing device 200. Further, one or more portions of the method 1000 can be executed or implemented as an algorithm on the hardware devices or systems disclosed herein. In some embodiments, one or more portions of the method 1300 can be performed as part of the method 900 that is described with respect to FIG. 9. FIG. 10 depicts steps performed in a particular order for purposes of illustration and discussion. Those of ordinary skill in the art, using the disclosures provided herein, will understand that various steps of any of the methods disclosed herein can be adapted, modified, rearranged, omitted, and/or expanded without deviating from the scope of the present disclosure.

[0178] At 1302, the method 1300 can include receiving data associated with one or more modifications of the one or more regulations. In some embodiments, the one or more rules of the rule data can be based on one or more regulations associated with the resources. For example, the computing system 110 can receive data indicating that one or more regulations associated with one or more computing assets have been modified. For example, the one or more modifications of the one or more regulations can comprise an increase in the number of

computing assets of a computing network. By way of further example, the computing system 110 can receive data indicating that one or more regulations associated with one or more assets have been modified. For example, the one or more modifications of the one or more regulations can comprise an increase in the probate tax in the location of an asset.

[0179] At 1304, the method 1300 can include modifying the rule data based on the data associated with one or more modifications of the one or more regulations. For example, the computing system can access the rule data and based on one or more modifications of the one or more regulations comprising a modification of a user authentication policy, the computing system 110 can update the rule data to include the new modified user authentication policy. By way of further example, the computing system can access the rule data and based on one or more modifications of the one or more regulations comprising a modification of a probate tax rate the computing system 110 can update the rule data to include the new modified probate tax rate.

[0180] At 1306, the method 1300 can include generating one or more rule modification notifications associated with the one or more modifications of the one or more regulations. In some embodiments, the one or more indications associated with the resource allocation instructions can comprise the one or more rule modification notifications. For example, based on receiving data associated with one or more modifications of one or more regulations, the computing system 110 can generate one or more rule modification notifications that can indicate the regulation that is being modified and/or the specific modification of the regulation.

[0181] At 1308, the method 1300 can include sending the one or more rule modification notifications to one or more remote computing devices associated with an entity authorized to receive the one or more rule modification notifications. For example, the computing system 110 can send the one or more rule modification notifications to an entity that is authorized to receive the one or more rule modification notifications such as a resource manager that has been entrusted with managing resources. Further, the one or more rule modification notifications can be sent via a network (e.g., the network 102).

[0182] Numerous details are set forth in the foregoing description. However, it will be apparent to one of ordinary skills in the art having the benefit of this disclosure that the present disclosure may be practiced without these specific details. In some instances, structures and devices are shown in block diagram form, rather than in detail, to avoid obscuring the present disclosure.

[0183] Certain examples of the present disclosure can relate to an apparatus for performing the operations described herein. This apparatus may include a computing device that is activated or reconfigured by a computer program comprising electronic instructions stored in the computing device. Such a computer program may be stored in a computer readable storage medium, which can include any type of storage. For example, the storage can include hard disk drives, solid state drives, floppy disks, optical disks, CD-ROMs, and magnetic-optical disks, read-only memories (ROMs), random access memories (RAMs), EPROMs, EEPROMs, magnetic or optical cards, or any type of media suitable for storing electronic instructions.

[0184] The above description is intended to be illustrative, and not restrictive. The scope of the disclosure can therefore be determined with reference to the claims.

[0185] The technology discussed herein makes reference to servers, databases, software applications, and other computer-based systems, as well as actions taken, and information sent to and from such systems. The inherent flexibility of computer-based systems allows for a great variety of possible configurations, combinations, and divisions of tasks and functionality between and among components. For instance, processes discussed herein can be implemented using a single device or component or multiple devices or components working in combination. Databases and applications can be implemented on a single system or distributed across multiple systems. Distributed components can operate sequentially or in parallel.

[0186] While the present subject matter has been described in detail with respect to various specific example embodiments thereof, each example is provided by way of explanation, not limitation of the disclosure. Those skilled in the art, upon attaining an understanding of the foregoing, can readily produce alterations to, variations of, and equivalents to such embodiments. Accordingly, the subject disclosure does not preclude inclusion of such modifications, variations and/or additions to the present subject matter as would be readily apparent to one of ordinary skill in the art. For instance, features illustrated or described as part of one embodiment can be used with another embodiment to yield a still further embodiment. Thus, it is intended that the present disclosure covers such alterations, variations, and equivalents.

WHAT IS CLAIMED IS:

1. A computer-implemented method comprising:

generating, by a computing system comprising one or more processors, one or more prompts comprising requests for information associated with resource allocation instructions for distribution of resources, wherein the one or more prompts are based on one or more resource documents associated with the resources, wherein the one or more resource documents comprise one or more resource document fields, and wherein the resource allocation instructions are associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients;

receiving, by the computing system, one or more responses to the one or more prompts;

generating, by the computing system, based on the one or more responses and rule data comprising one or more rules associated with the resources, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields, wherein the one or more resource data fields are based on the one or more resource document fields, and wherein the one or more resource data field values are based on the one or more responses; and

generating, by the computing system, based on the resource data, one or more indications associated with the resource allocation instructions, wherein the one or more indications comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients.

2. The computer-implemented method of claim 1, further comprising:

receiving, by the computing system, an asset valuation request associated with a projected asset valuation of the one or more assets; and

determining, by the computing system, based on the resource data, the projected asset valuation of the one or more assets, wherein the one or more indications associated with the resource allocation instructions comprise the projected asset valuation of the one or more assets.

3. The computer-implemented method of claim 2, wherein the projected asset valuation is based on inputting the resource data and financial data into one or more machine-

learning asset projection models that are configured to generate the projected asset valuation, wherein the financial data comprises one or more predicted asset appreciation rates or one or more asset depreciation rates.

4. The computer-implemented method of claim 1, further comprising:
receiving, by the computing system, an asset distribution request associated with a projected asset distribution of the one or more assets to the one or more entities;
determining, by the computing system, based on the resource data, one or more relationships between the one or more entities; and
determining, by the computing system, based on the resource data and the one or more relationships between the one or more entities, a plurality of projected asset distributions of the one or more assets to the one or more entities, wherein the one or more indications associated with the resource allocation instructions comprise the plurality of projected asset distributions of the one or more assets to the one or more entities.

5. The computer-implemented method of claim 4, wherein the projected asset distribution is based on inputting the resource data and relationship data associated with the one or more relationships into one or more machine-learning distribution projection models that are configured to generate the projected asset distribution.

6. The computer-implemented method of claim 1, further comprising:
receiving, by the computing system, one or more conditions associated with the one or more entities or the one or more assets; and
determining, by the computing system, one or more scenarios associated with the one or more conditions, wherein the one or more scenarios comprise one or more projected valuations of the one or more assets or one or more predicted distributions of the one or more assets to the one or more resource recipients, wherein the one or more indications associated with the resource allocation instructions comprise the one or more scenarios associated with the one or more scenarios.

7. The computer-implemented method of claim 6, wherein the one or more conditions comprise a possible life expectancy of the one or more entities or a possible valuation of the one or more assets.

8. The computer-implemented method of claim 6, wherein the determining the one or more scenarios is based on inputting the resource data and the one or more conditions into one or more machine-learning scenario models that are configured to generate the one or more scenarios.

9. The computer-implemented method of claim 1, further comprising:
receiving, by the computing system, event data comprising information associated with a plurality of events associated with the resources;
determining, by the computing system, based on the resource data, whether one or more events of the plurality of events satisfy one or more event criteria; and
generating, by the computing system, one or more event notifications associated with the one or more events that satisfy the one or more event criteria, wherein the one or more indications associated with the resource allocation instructions comprise the one or more event notifications.

10. The computer-implemented method of claim 9, further comprising:
sending, by the computing system, the one or more event notifications to one or more remote computing devices associated with an entity that is authorized to receive the one or more event notifications.

11. The computer-implemented method of claim 9, wherein the plurality of events comprise marriage, divorce, receipt of a new asset, birth of a child, or death of at least one of the one or more entities.

12. The computer-implemented method of claim 1, wherein the one or more resource documents comprise one or more network policies, one or more user guides, one or more access policies, one or more authorization policies, one or more authentication policies, one or more

wills, one or more trusts, a power of attorney, one or more titles, one or more deeds, one or more account resource recipient designations, one or more guardianship designations, one or more insurance policies, or one or more healthcare directives.

13. The computer-implemented method of claim 1, wherein the generating, by the computing system, based on one or more responses and rule data comprising one or more rules associated with the resources, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields, wherein the one or more resource data fields are based on the one or more resource document fields, and wherein the one or more resource data field values are based on the one or more responses comprises:

determining, by the computing system, one or more locations associated with the one or more assets, wherein the one or more locations comprise one or more administrative divisions; and

determining, by the computing system, the one or more rules associated with the one or more locations.

14. The computer-implemented method of claim 1, wherein the one or more entities further comprise one or more trustees of the resources or one or more creditors, and wherein the one or more assets comprise real property, tangible personal property, one or more securities, or cash.

15. The computer-implemented method of claim 1, wherein the one or more rules are based on one or more regulations associated with the resources, and further comprising:

receiving, by the computing system, data associated with one or more modifications of the one or more regulations;

modifying, by the computing system, the rule data based on the data associated with one or more modifications of the one or more regulations; and

generating, by the computing system, one or more rule modification notifications associated with the one or more modifications of the one or more regulations, wherein the one or

more indications associated with the resource allocation instructions comprise the one or more rule modification notifications.

16. The computer-implemented method of claim 15, further comprising:
sending, by the computing system, the one or more rule modification notifications to one or more remote computing devices associated with an entity authorized to receive the one or more rule modification notifications.

17. A computing system, comprising:
one or more processors;
one or more non-transitory computer-readable media storing instructions that, when executed by the one or more processors, cause the computing system to perform operations, the operations comprising:
generating one or more prompts comprising requests for information associated with resource allocation instructions associated with resources, wherein the one or more prompts are based on one or more resource documents associated with the resources, wherein the one or more resource documents comprise one or more resource document fields, and wherein the resource allocation instructions are associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients;
receiving one or more responses to the one or more prompts;
generating, based on the one or more responses and rule data comprising one or more rules associated with the resources, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields, wherein the one or more resource data fields are based on the one or more resource document fields, and wherein the one or more resource data field values are based on the one or more responses; and
generating, based on the resource data, one or more indications associated with the resource allocation instructions, wherein the one or more indications comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients.

18. The computing system of claim 17, wherein the one or more rules are based on one or more regulations associated with the resources, and wherein the operations further comprise:

receiving data associated with one or more modifications of the one or more regulations;
modifying the rule data based on the data associated with one or more modifications of the one or more regulations; and

generating one or more rule modification notifications associated with the one or more modifications of the one or more regulations, wherein the one or more indications associated with the resource allocation instructions comprise the one or more rule modification notifications.

19. One or more non-transitory computer-readable media that collectively store instructions that, when executed by one or more computing devices, cause the one or more computing devices to perform operations, the operations comprising:

generating one or more prompts comprising requests for information associated with resource allocation instructions associated with resources, wherein the one or more prompts are based on one or more resource documents associated with the resources, wherein the one or more resource documents comprise one or more resource document fields, and wherein the resource allocation instructions are associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients;

receiving one or more responses to the one or more prompts;

generating, based on the one or more responses and rule data comprising one or more rules associated with the resources, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields, wherein the one or more resource data fields are based on the one or more resource document fields, and wherein the one or more resource data field values are based on the one or more responses; and

generating, based on the resource data, one or more indications associated with the resource allocation instructions, wherein the one or more indications comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients.

20. The one or more non-transitory computer-readable media of claim 19, wherein the one or more rules are based on one or more regulations associated with the resources, and wherein the operations further comprise:

receiving data associated with one or more modifications of the one or more regulations;
modifying the rule data based on the data associated with one or more modifications of the one or more regulations; and

generating one or more rule modification notifications associated with the one or more modifications of the one or more regulations, wherein the one or more indications associated with the resource allocation instructions comprise the one or more rule modification notifications.

ABSTRACT OF THE DISCLOSURE

Provided are methods, systems, devices, apparatuses, and tangible non-transitory computer readable media for processing and allocating resources. Prompts that comprise requests for information associated with resource allocation instructions can be generated. Generation of the prompts can be based on resource documents that are associated with resources and comprise resource document fields. The resource allocation instructions can be associated with the distribution of assets of the resources to entities that comprise resource recipients. Based on rule data and received responses to the prompts, resource data can be generated. The resource data can comprise resource data fields that are based on the resource document fields and resource data field values that are based on the responses. Based on the resource data, indications associated with the resource allocation instructions can be generated. Furthermore, the indications can comprise visualizations of the distribution of the assets to the resource recipients.

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e) (Page 1 of 1)**

First Named Inventor:	Amjad Hussain	Nonprovisional Application Number (if known):	n/a
Title of Invention:	EVENT-BASED RESOURCE ALLOCATION SYSTEM		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
---OR---
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature /Lawrence Nwaesei/	Date November 27, 2024
Name (Print/Typed) Lawrence Nwaesei	Practitioner Registration Number L0946

Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.*

☐ *Total of _____ forms are submitted.

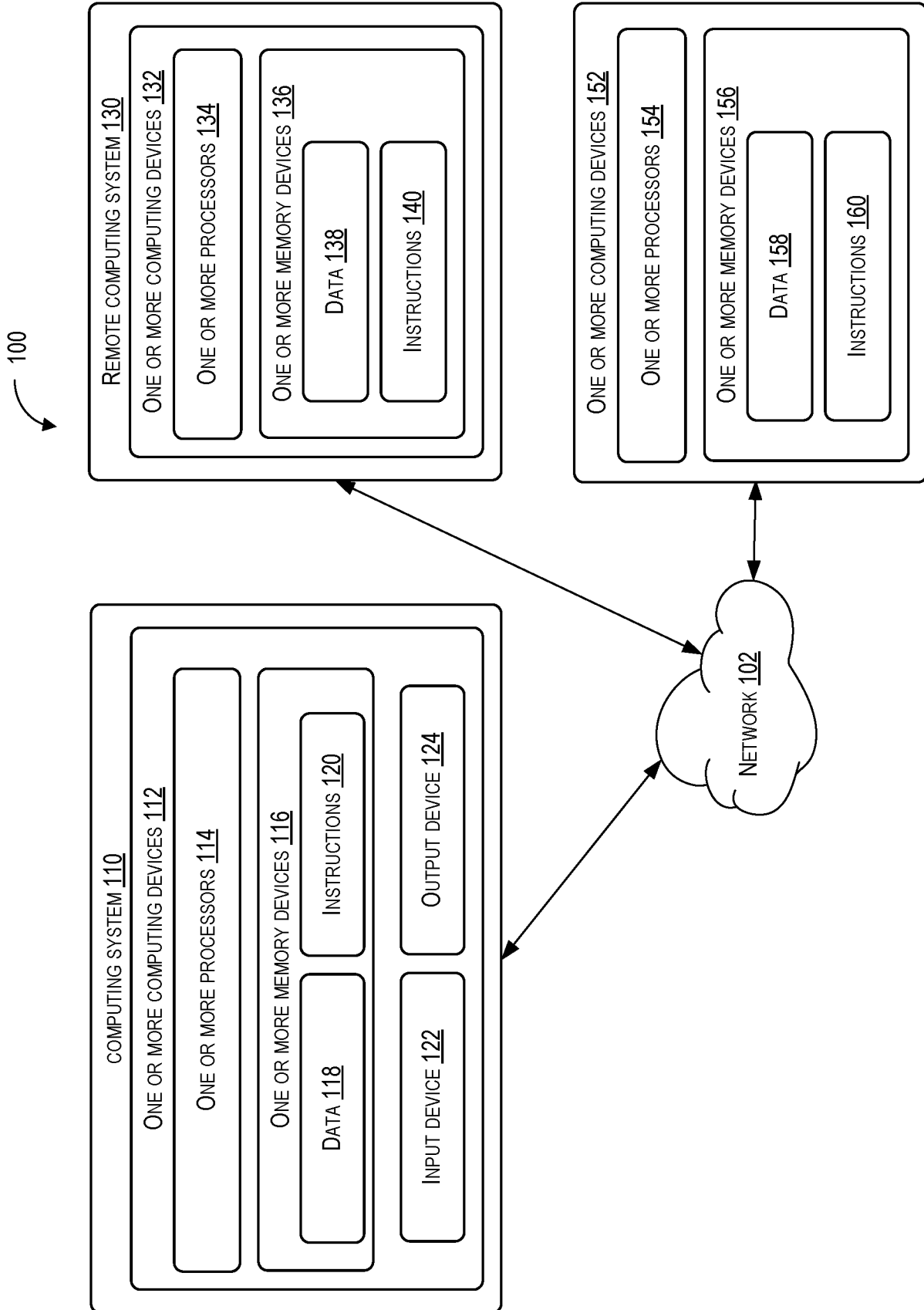
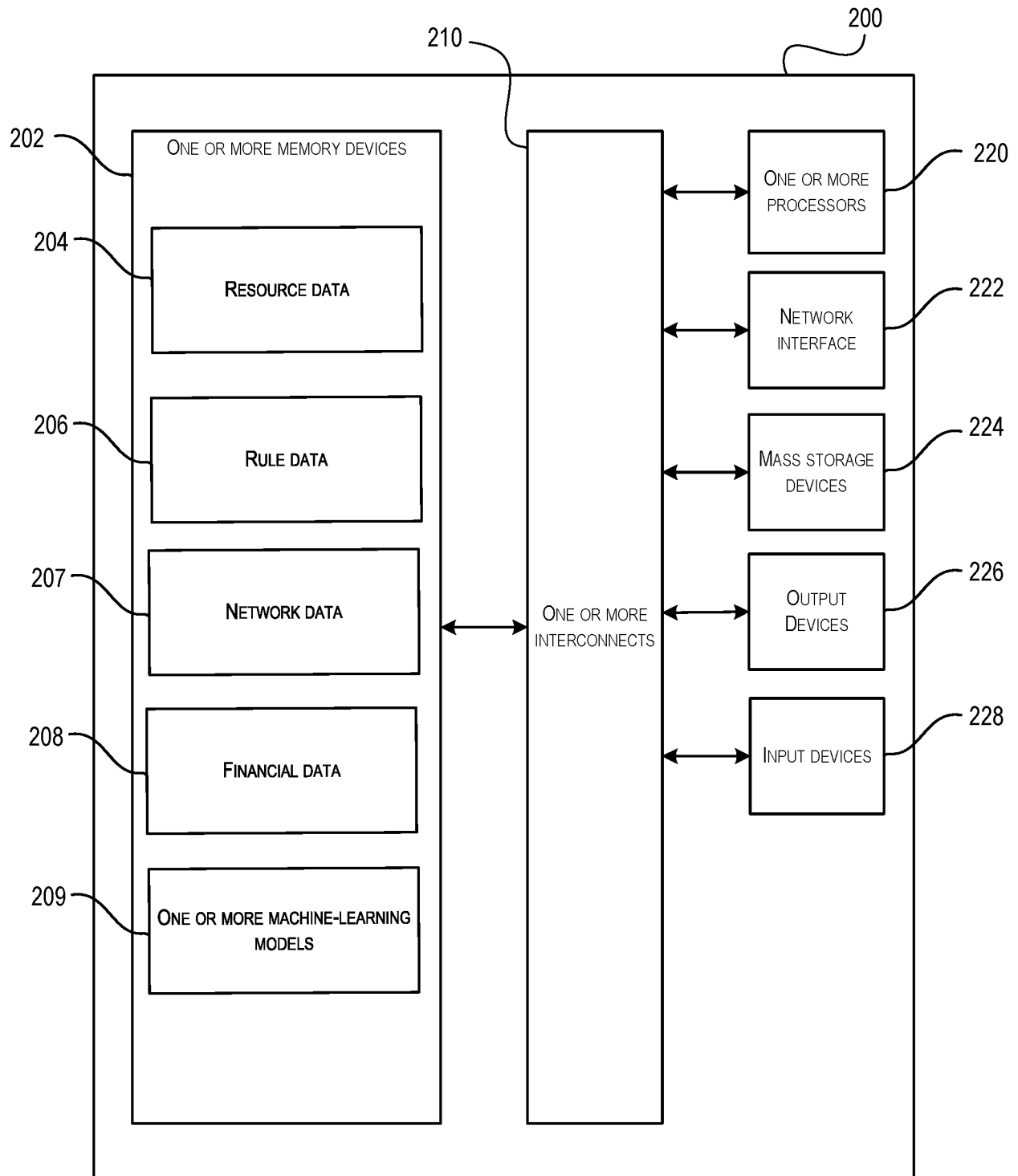
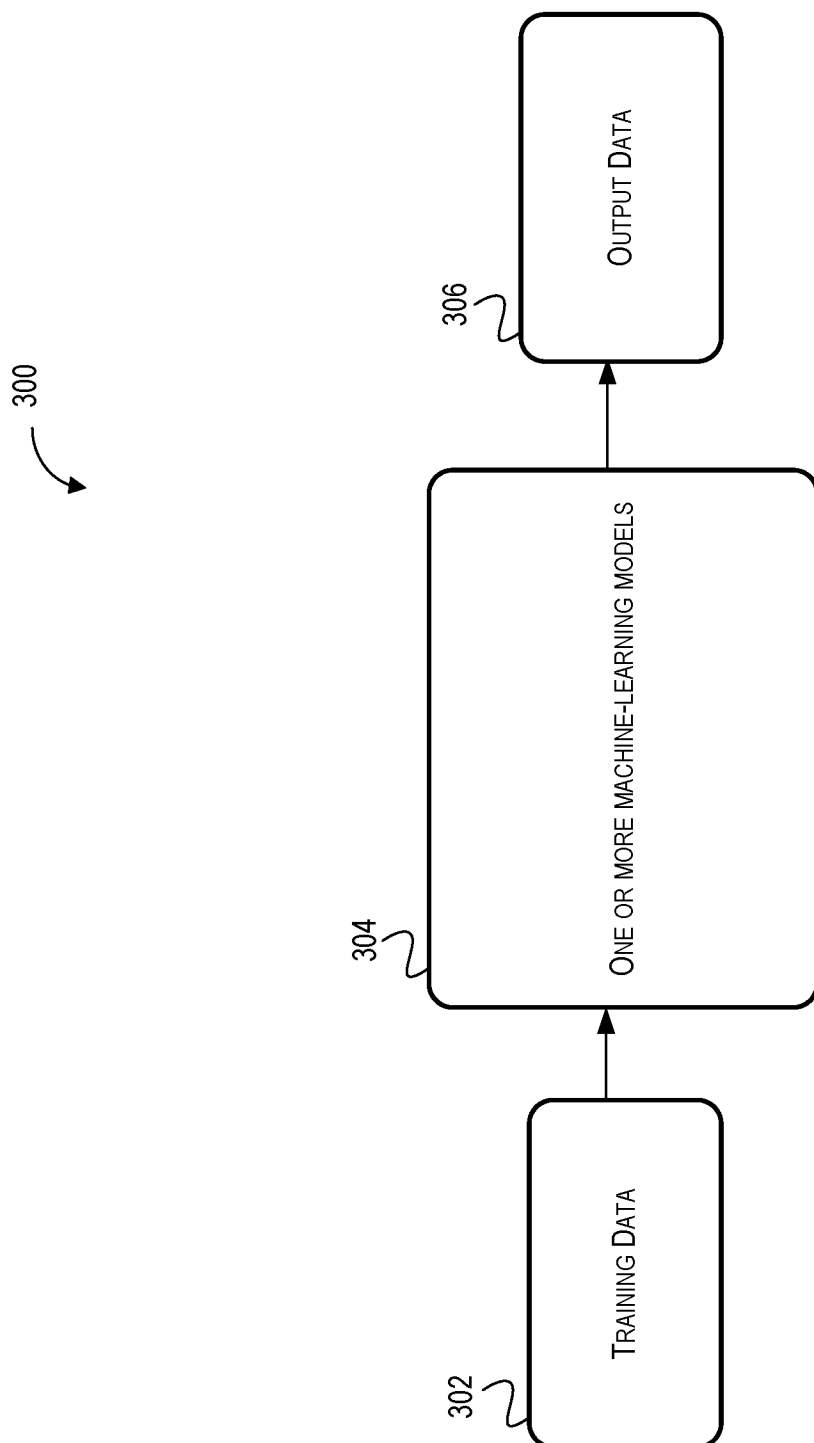


FIG. 1

**FIG. 2**

**FIG. 3**

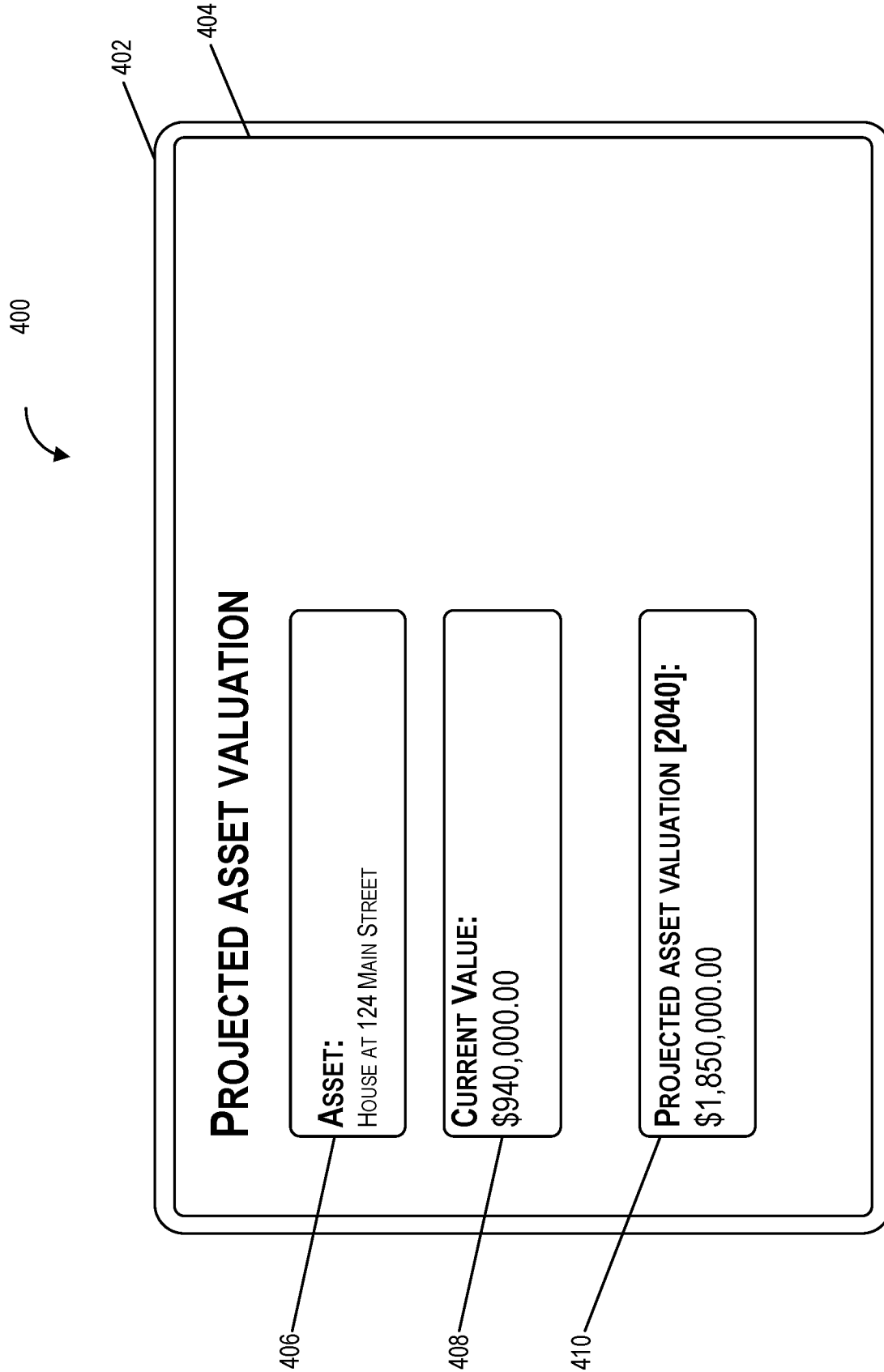


FIG. 4

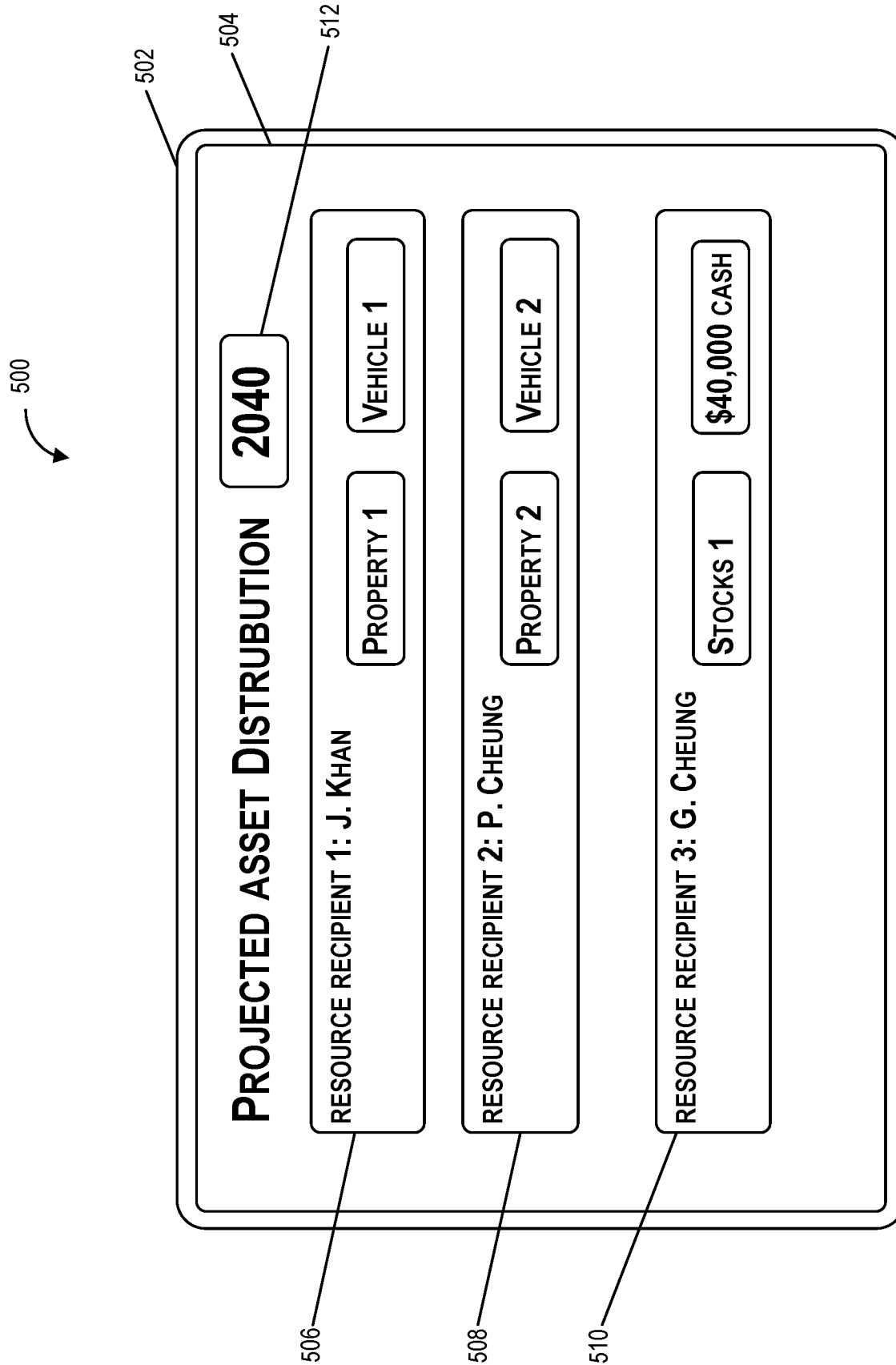


FIG. 5

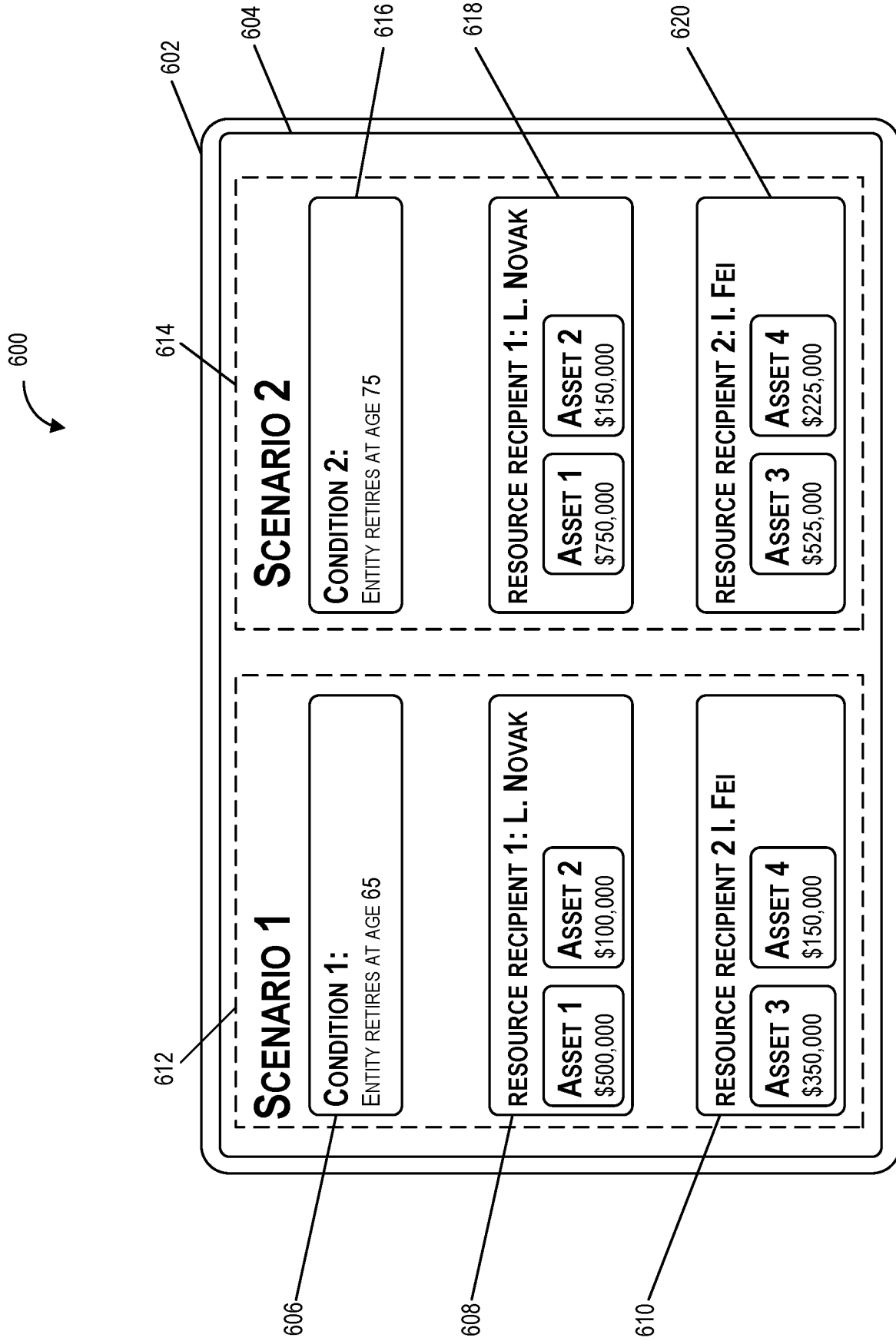
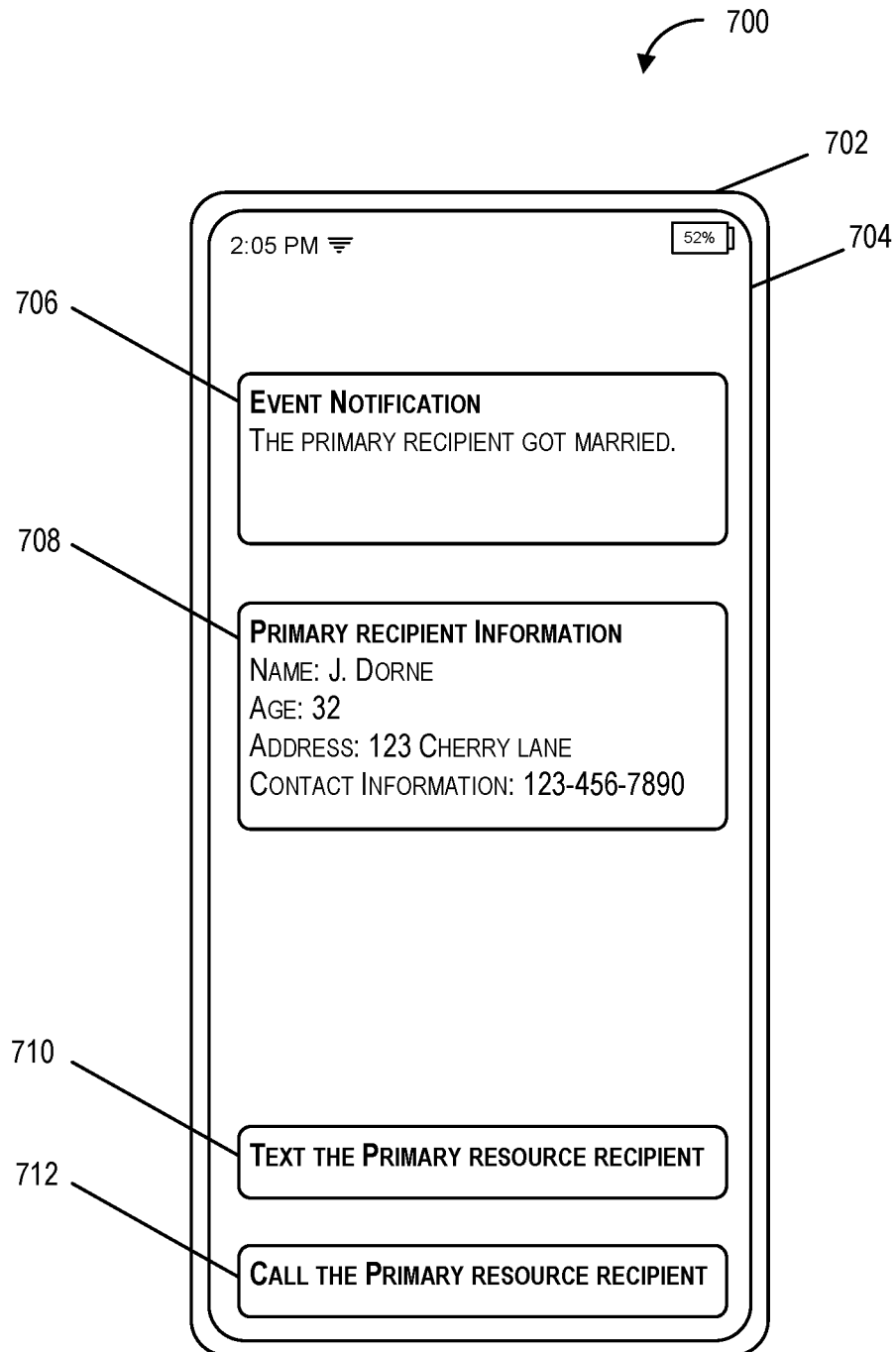
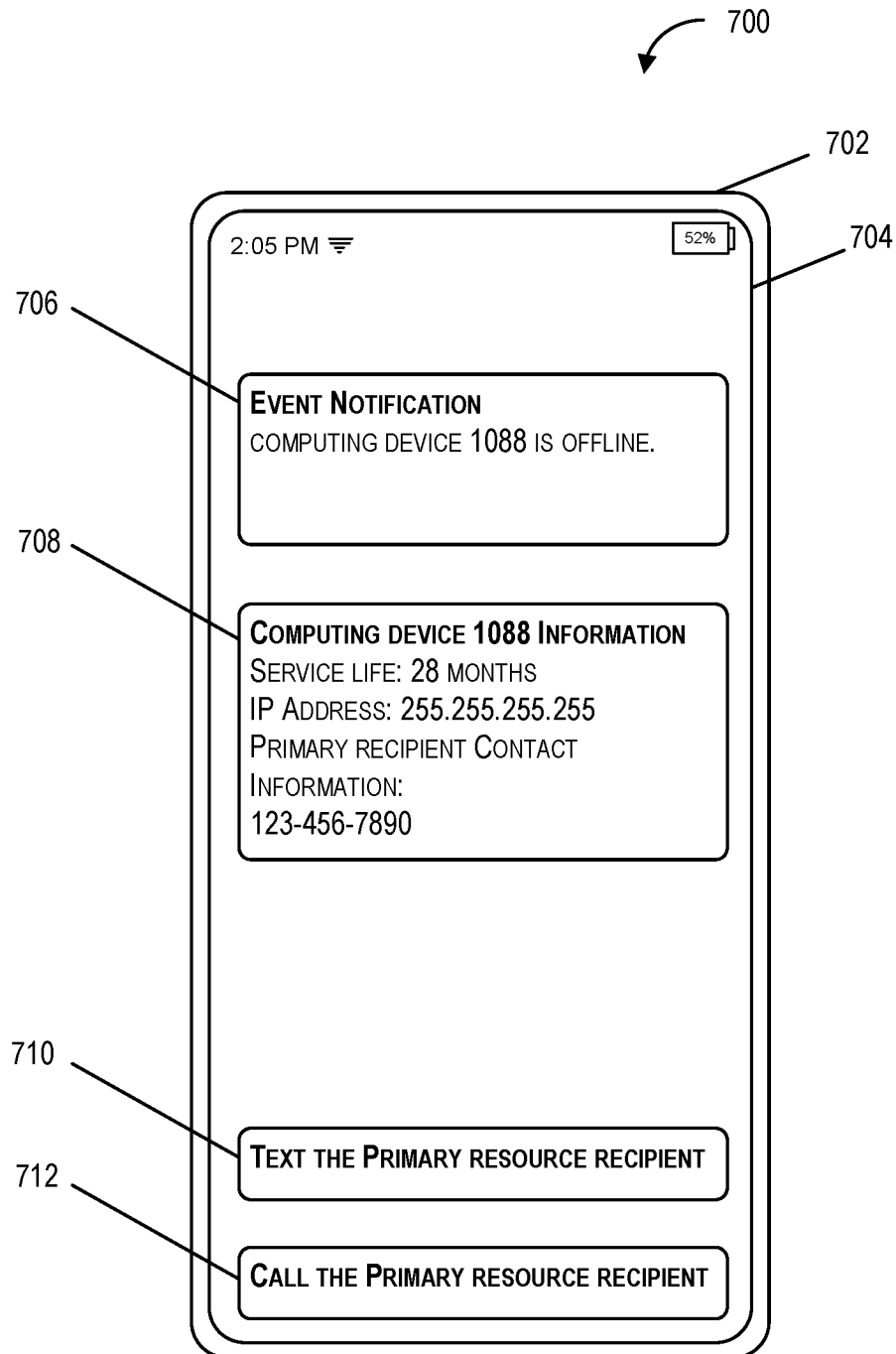
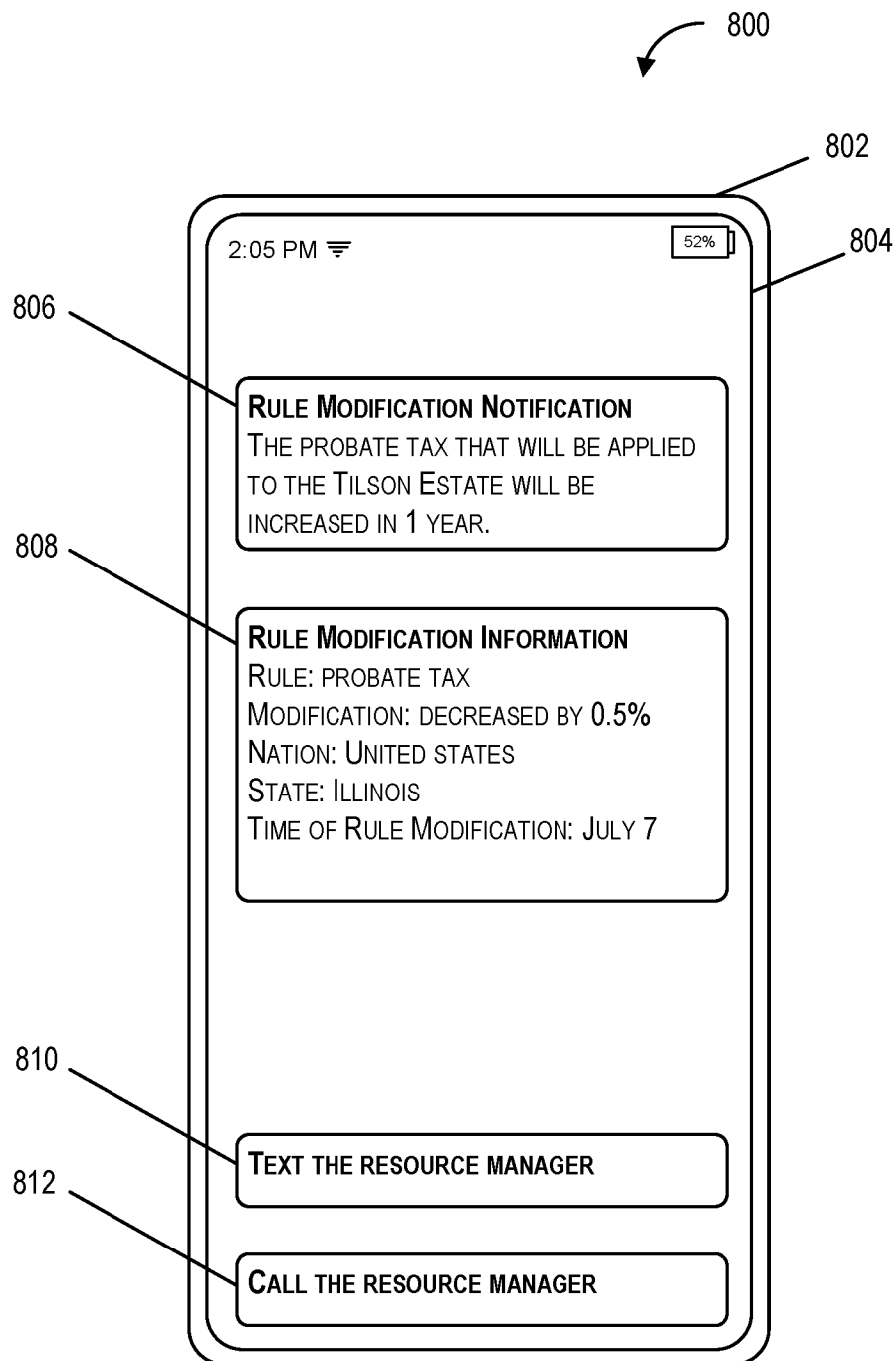
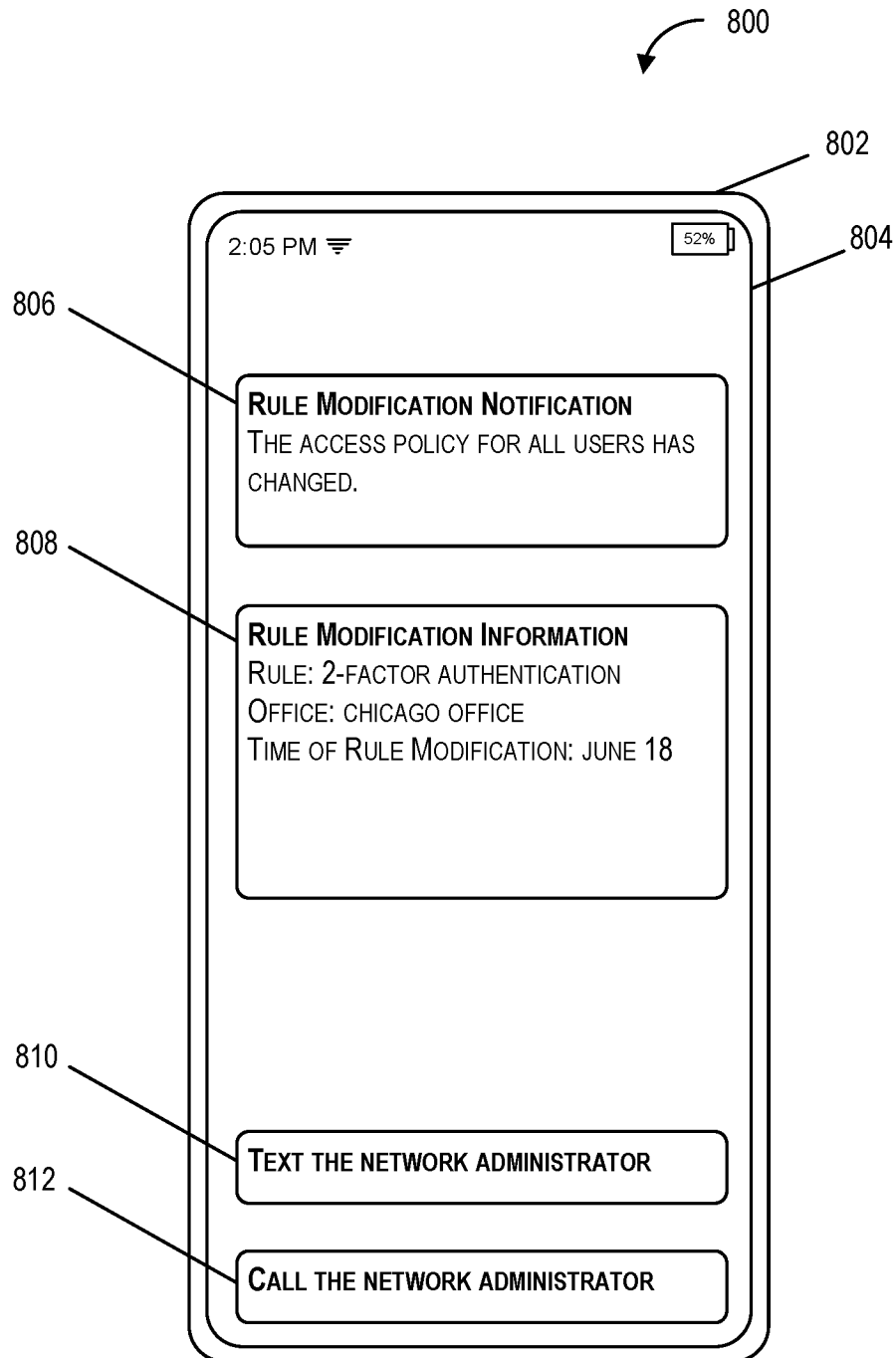


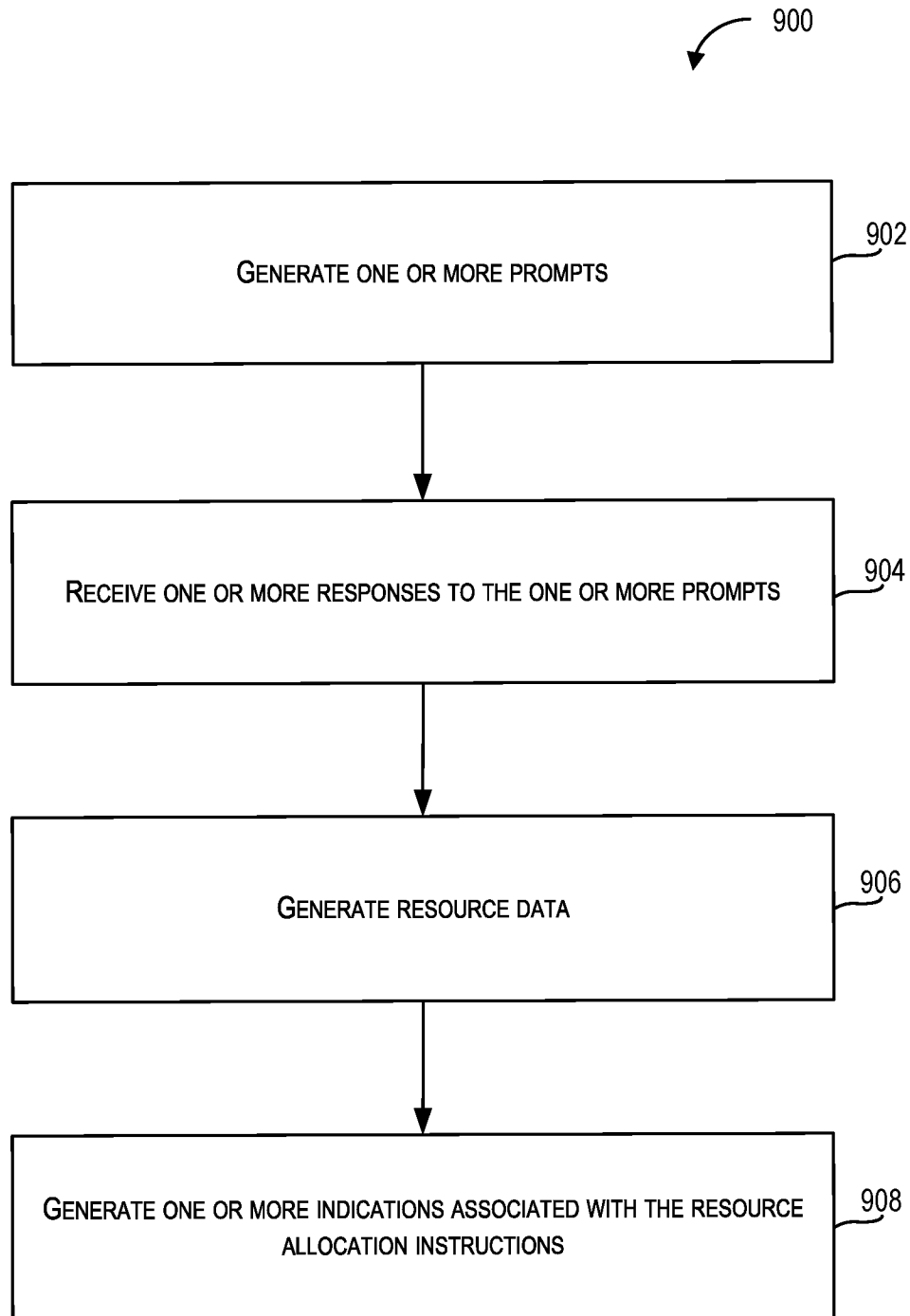
FIG. 6

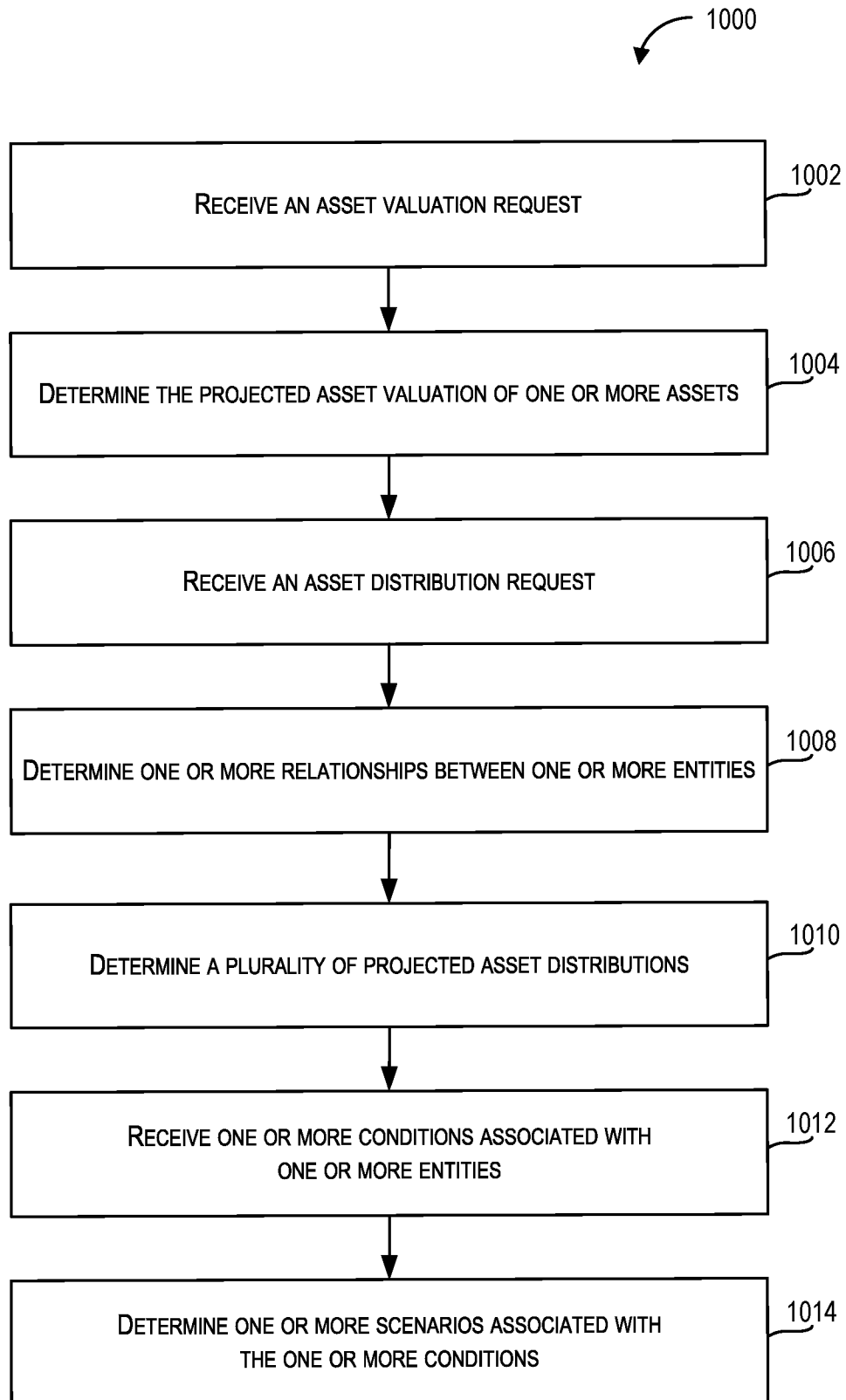
**FIG. 7A**

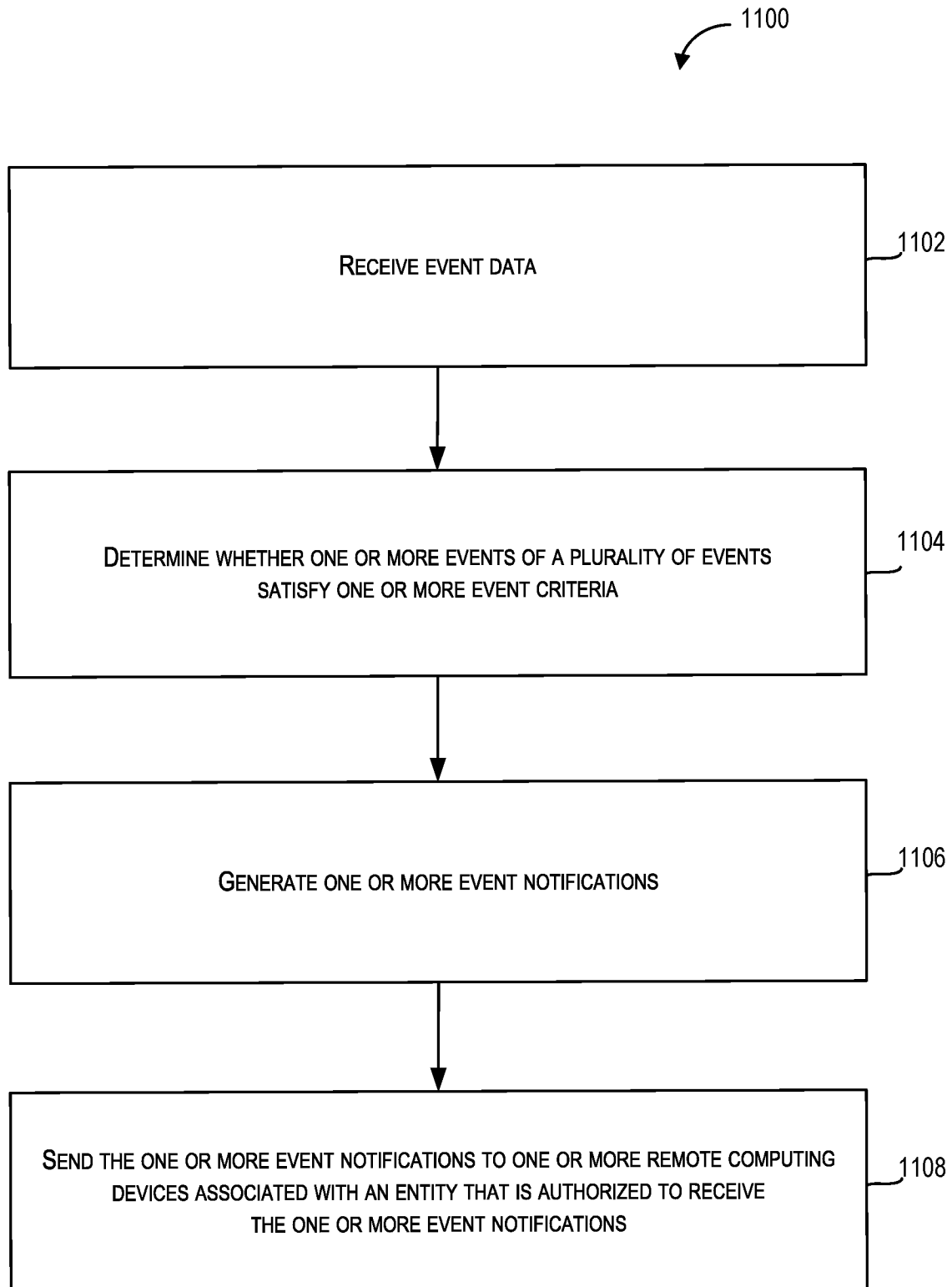
**FIG. 7B**

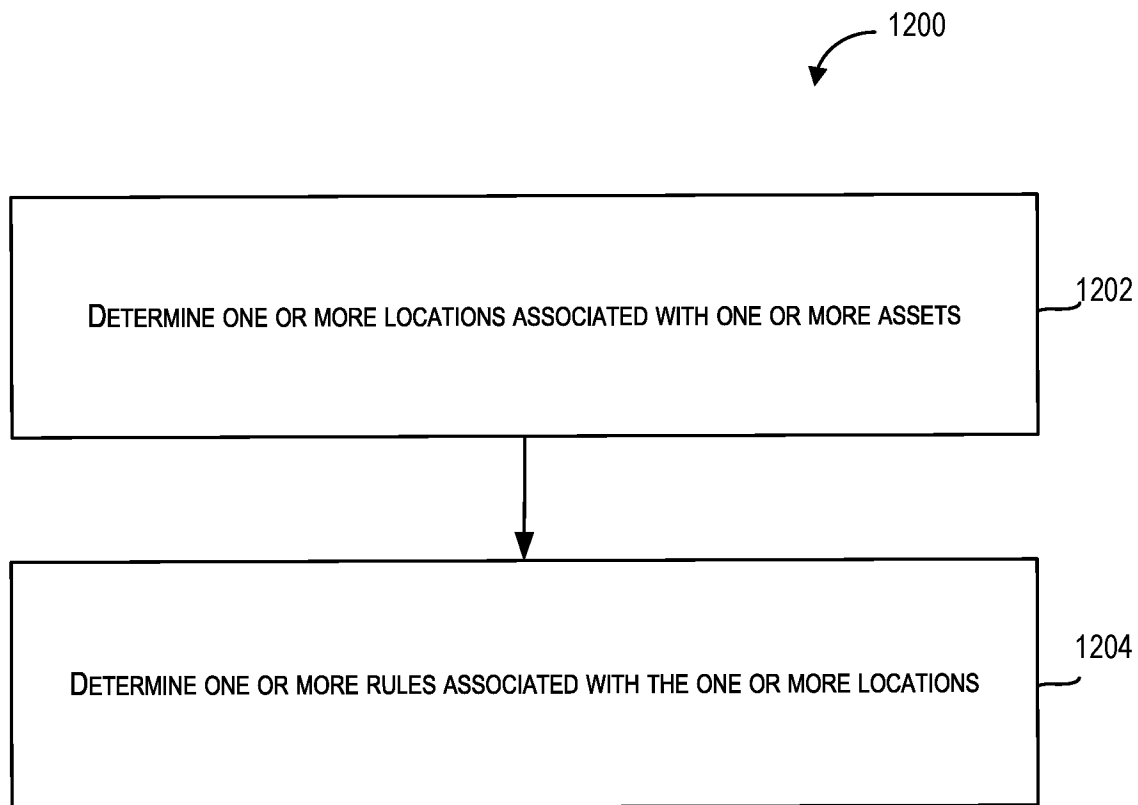
**FIG. 8A**

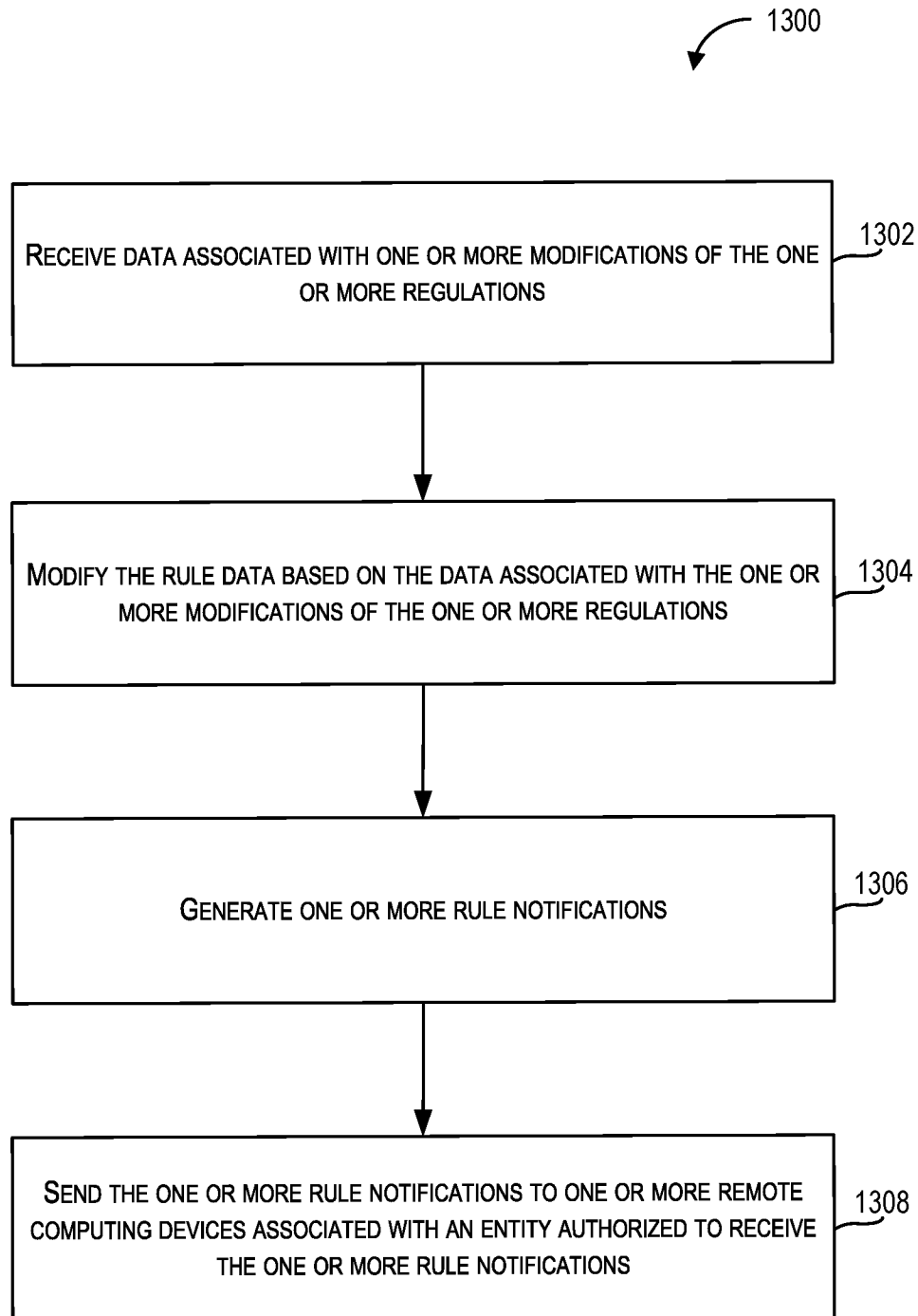
**FIG. 8B**

**FIG. 9**

**FIG. 10**

**FIG. 11**

**FIG. 12**

**FIG. 13**

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UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i>	Attorney Docket No.	VANL-100
	First Named Inventor	Amjad Hussain
	Title	EVENT-BASED RESOURCE ALLOCATION SYSTEM
	Priority Mail Express® Label No.	N / A

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450
--	--

1. ☐ Fee Transmittal Form (PTO/SB/17 or equivalent) 2. ☐ Applicant asserts small entity status. See 37 CFR 1.27 3. ☐ Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent. 4. ☒ Specification [Total Pages <u>61</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement) 5. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets <u>15</u>] 6. Inventor's Oath or Declaration [Total Pages <u> </u>] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) a. ☐ Newly executed (original or copy) b. ☐ A copy from a prior application (37 CFR 1.63(d)) 7. ☒ Application Data Sheet *See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent) 8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix) ☐ Landscape Table on CD 9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) a. ☐ Computer Readable Form (CRF) b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ Paper c. ☐ Statements verifying identity of above copies	ACCOMPANYING APPLICATION PAPERS 10. ☐ Assignment Papers (cover sheet & document(s)) Name of Assignee _____ 11. ☐ 37 CFR 3.73(c) Statement ☒ Power of Attorney (when there is an assignee) 12. ☐ English Translation Document (if applicable) 13. ☐ Information Disclosure Statement (PTO/SB/08 or PTO-1449) ☐ Copies of citations attached 14. ☐ Preliminary Amendment 15. ☐ Return Receipt Postcard (MPEP § 503) (Should be specifically itemized) 16. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed) 17. ☐ Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 18. ☒ Other: Deposit Account Authorization Certificate of Electronic Submission _____ _____ _____
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***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
 (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS				
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Name				
Address				
City	State	Zip Code		
Country	Telephone	Email		

Signature	/Lawrence Nwaesei/	Date	November 27, 2024
Name (Print/Type)	Lawrence Nwaesei	Registration No. (Attorney/Agent)	L0946

This collection of information is required by 37 CFR 1.53(b). 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 12 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.**

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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	Not Yet Assigned
Filing Date	Herewith
First Named Inventor	Amjad Hussain
Title	EVENT-BASED RESOURCE ALLOCATION SYSTEM
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	VANL-100

SIGNATURE of Applicant or Patent Practitioner

Signature	/Lawrence Nwaesei/	Date (Optional)	
Name	Lawrence Nwaesei	Registration Number	L0946
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.

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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:

22827

OR



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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):

Vanilla Technologies Inc.



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

Signature

Karen Nachbar

Date (Optional)

11/30/2023

Name

Karen Nachbar

Title

General Counsel

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.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1 st Named Inventor:	Amjad Hussain	)	Examiner:	Not Yet Assigned
		)		
Serial Number:	Not Yet Assigned	)	Group Art Unit:	Not Yet Assigned
		)		
Filed:	Herewith	)	Customer Number:	22827
		)		
Confirmation No.:	Not Yet Assigned	)	Deposit Account:	04-1403
		)		
Title:	EVENT-BASED RESOURCE ALLOCATION SYSTEM	)	Docket Number:	VANL-100
		)		

DEPOSIT ACCOUNT AUTHORIZATION

Dear Commissioner:

The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any fees in addition to the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under 37 C.F.R. §§ 1.16-18 (deficiency only) now or hereafter in this application and in the resulting official document under 37 C.F.R. § 1.20, or credit any overpayment, to our Deposit Account No. 04-1403. This statement does not authorize charge of the issue fee in this case.

If any extension of time is required under 37 C.F.R. § 1.136 or otherwise in connection with any of the above and not accounted for elsewhere, such extension is hereby requested, and any fees incurred thereby should also be charged to Deposit Account No. 04-1403.

Sincerely,

DORITY & MANNING, P.A.

November 27, 2024

Date

/Lawrence Nwaesei/

Lawrence Nwaesei

Registration Number: L0946

P.O. Box 1449

Greenville, SC 29602

Telephone: (864) 271-1592

Facsimile: (864) 233-7342

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1 st Named Inventor:	Amjad Hussain	)	Examiner:	Not Yet Assigned
		)		
Serial Number:	Not Yet Assigned	)	Group Art Unit:	Not Yet Assigned
		)		
Filed:	Herewith	)	Customer Number:	22827
		)		
Confirmation No.:	Not Yet Assigned	)	Deposit Account:	04-1403
		)		
Title:	EVENT-BASED RESOURCE ALLOCATION SYSTEM	)	Docket Number:	VANL-100

CERTIFICATE OF ELECTRONIC SUBMISSION

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Lisa E. Glass
(Typed or printed name of person transmitting paper or fee)

/ Lisa E. Glass /
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APPLICATION #
18/963,034

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ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

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

PATENT # -

CONFIRMATION # 8683

FILED BY Lisa Glass

PATENT CENTER # 68158254

FILING DATE -

CUSTOMER # 22827

FIRST NAMED
INVENTOR Amjad Hussain

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY Lawrence Nwaesei

Documents

TOTAL DOCUMENTS: 8

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VANL-100_ADS_27NOV2024.pdf	10	Application Data Sheet	1227 KB
VANL-100_PrioritizedExamRequest_27NOV2024.pdf	1	Track One Request	112 KB
VANL-100_Application_27NOV2024-APP.TEXT.docx	61	Application body structured text document	66 KB

Warning: Bookmarks were found and have been removed.

VANL-100_TransmittalPacket_27NOV2024.pdf	5	-	6041 KB
VANL- (1-1)	1	Transmittal Letter	1526 KB

100_TransmittalPacket_27
NOV2024-TRAN.LET.pdf

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100_TransmittalPacket_27 NOV2024-PA...pdf	(2-3)	2	Power of Attorney	3258 KB
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100_TransmittalPacket_27 NOV2024-136A.pdf	(4-4)	1	Authorization for Extension of Time all replies	950 KB
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100_TransmittalPacket_27 NOV2024-LET..pdf	(5-5)	1	Miscellaneous Incoming Letter	531 KB
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100_Drawings_27NOV2024. pdf		15	Drawings-only black and white line drawings	808 KB
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100_Drawings_27NOV2024.pdf

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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

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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.

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APPLICATION #
18/963,034

RECEIPT DATE / TIME
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ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

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

PATENT # -

CONFIRMATION # 8683

FILED BY Lisa Glass

PATENT CENTER # 68158254

AUTHORIZED BY Lawrence Nwaesei

CUSTOMER # 22827

FILING DATE -

CORRESPONDENCE ADDRESS -

FIRST NAMED INVENTOR Amjad Hussain

Payment Information

PAYMENT METHOD
CARD / 1257

PAYMENT TRANSACTION ID
E2024AQH27115706

PAYMENT AUTHORIZED BY
Lisa Glass

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2817	REQUEST FOR PRIORITIZED EXAMINATION	1680.00	1	1680.00
2111	UTILITY PATENT APPL. SEARCH FEE	280.00	1	280.00
4011	BASIC FILING FEE- UTILITY	64.00	1	64.00
2051	SURCHARGE- LATE FILING FEE, SEARCH FEE, EXAMINATION FEE, INVENTOR'S OATH OR DECLARATION, OR APPLICATION FILED WITHOUT AT LEAST ONE CLAIM OR BY REFERENCE	64.00	1	64.00
2311	EXAMINATION OF ORIGINAL PATENT APPLICATION	320.00	1	320.00
TOTAL				\$2,408.00

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New Applications Under 35 U.S.C. 111

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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.

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	VANL-100
		Application Number	
Title of Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM		
<p>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.</p> <p>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.</p>			

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.)
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Inventor Information:

Inventor 1					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Amjad		Hussain		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Newcastle	State/Province	WA	Country of Residenceⁱ	US
Mailing Address of Inventor:					
Address 1	c/o Vanilla Technologies Inc.				
Address 2	310 South Main St., 10th Floor				
City	Salt Lake City		State/Province	UT	
Postal Code	84101		Countryⁱ	US	
Inventor 2					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Kei	Daniel	Yasui		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Los Angeles	State/Province	CA	Country of Residenceⁱ	US
Mailing Address of Inventor:					
Address 1	c/o Vanilla Technologies Inc.				
Address 2	310 South Main St., 10th Floor				
City	Salt Lake City		State/Province	UT	
Postal Code	84101		Countryⁱ	US	
Inventor 3					Remove
Legal Name					
Prefix	Given Name	Middle Name	Family Name	Suffix	
	Alexander		Pines		
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		VANL-100	
		Application Number			
Title of Invention		EVENT-BASED RESOURCE ALLOCATION SYSTEM			

City	Los Angeles	State/Province	CA	Country of Residence ⁱ	US
------	-------------	----------------	----	-----------------------------------	----

Mailing Address of Inventor:

Address 1	c/o Vanilla Technologies Inc.				
Address 2	310 South Main St., 10th Floor				
City	Salt Lake City			State/Province	UT
Postal Code	84101		Country ⁱ	US	
Inventor 4 Remove					
Legal Name					
Prefix	Given Name	Middle Name		Family Name	Suffix
	Samuel	Winthrop		Trapkin	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Post Falls	State/Province	ID	Country of Residence ⁱ	US

Mailing Address of Inventor:

Address 1	c/o Vanilla Technologies Inc.				
Address 2	310 South Main St., 10th Floor				
City	Salt Lake City			State/Province	UT
Postal Code	84101		Country ⁱ	US	
Inventor 5 Remove					
Legal Name					
Prefix	Given Name	Middle Name		Family Name	Suffix
	Steven	D.		Lockshin	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Beaverton	State/Province	OR	Country of Residence ⁱ	US

Mailing Address of Inventor:

Address 1	c/o Vanilla Technologies Inc.				
Address 2	310 South Main St., 10th Floor				
City	Salt Lake City			State/Province	UT
Postal Code	84101		Country ⁱ	US	
Inventor 6 Remove					
Legal Name					
Prefix	Given Name	Middle Name		Family Name	Suffix
	Eugene	Michael		Farrell	
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service					
City	Sammamish	State/Province	WA	Country of Residence ⁱ	US

Application Data Sheet 37 CFR 1.76		Attorney Docket Number		VANL-100	
		Application Number			
Title of Invention		EVENT-BASED RESOURCE ALLOCATION SYSTEM			
Mailing Address of Inventor:					
Address 1		c/o Vanilla Technologies Inc.			
Address 2		310 South Main St., 10th Floor			
City	Salt Lake City		State/Province	UT	
Postal Code	84101		Country i	US	
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	22827		
Email Address	usdocketing@dority-manning.com	Add Email	Remove Email

Application Information:

Title of the Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM		
Attorney Docket Number	VANL-100	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	15	Suggested Figure for Publication (if any)	

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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	VANL-100
		Application Number	
Title of Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM		

Representative Information:

<p>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.</p>			
<p>Please Select One: ☒ Customer Number ☐ US Patent Practitioner ☐ Limited Recognition (37 CFR 11.9)</p>			
Customer Number	22827		

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)
	Claims benefit of provisional	63/603895	2023-11-29
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).

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

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	VANL-100
		Application Number	
Title of Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM		

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

<p>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.</p> <p>☐ 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.</p>	
--	--

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	VANL-100
		Application Number	
Title of Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM		

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	VANL-100
		Application Number	
Title of Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM		

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
<p>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.</p>			
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: <input type="text"/>			
If the Applicant is an Organization check here. ☒			
Organization Name	Vanilla Technologies Inc.		
Mailing Address Information For Applicant:			
Address 1	310 South Main St.		
Address 2	10th Floor		
City	Salt Lake City	State/Province	UT
Country	US	Postal Code	84101
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.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	VANL-100	
		Application Number		
Title of Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM			

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	/Lawrence Nwaesei/			Date (YYYY-MM-DD)	2024-11-27
First Name	Lawrence	Last Name	Nwaesei	Registration Number	L0946

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

Add

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	VANL-100
		Application Number	
Title of Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM		

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.



United States Patent and Trademark Office

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Sale Accounting Date:12/09/2024

Sale Item Reference Number
18963034

Effective Date
11/27/2024

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I2024B9B35055168	2830	PROCESSING FEE, EXCEPT PROV. APPLS.	\$56.00	Deposit Account



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/963,034	11/27/2024	Amjad Hussain	VANL-100

CONFIRMATION NO. 8683

22827
DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

INFORMAL NOTICE



OC000000081666264

Date Mailed: 12/10/2024

INFORMATIONAL NOTICE TO APPLICANT

Applicant is notified that the above-identified application contains the deficiencies noted below. No period for reply is set forth in this notice for correction of these deficiencies. However, if a deficiency relates to the inventor's oath or declaration, the applicant must file an oath or declaration in compliance with 37 CFR 1.63, or a substitute statement in compliance with 37 CFR 1.64, executed by or with respect to each actual inventor no later than the expiration of the time period set in the "Notice of Allowability" to avoid abandonment. See 37 CFR 1.53(f).

The item(s) indicated below are also required and should be submitted with any reply to this notice to avoid further processing delays.

- A properly executed inventor's oath or declaration has not been received for the following inventor(s):

Amjad Hussain
Kei Daniel Yasui
Alexander Pines
Samuel Winthrop Trapkin
Steven D. Lockshin
Eugene Michael Farrell

An inventor's oath or declaration in compliance with 37 CFR 1.63 or 1.64 executed by or with respect to each inventor must be submitted no later than the date on which the issue fee is paid in response to a notice requiring such fee. See 37 CFR 1.53(f).

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.

/eekubay/



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
18/963,034	11/27/2024		728	VANL-100	20	3

CONFIRMATION NO. 8683

22827

DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

FILING RECEIPT



0000000081666262

Date Mailed: 12/10/2024

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)

Amjad Hussain, Newcastle, WA;
Kei Daniel Yasui, Los Angeles, CA;
Alexander Pines, Los Angeles, CA;
Samuel Winthrop Trapkin, Post Falls, ID;
Steven D. Lockshin, Beaverton, OR;
Eugene Michael Farrell, Sammamish, WA;

Applicant(s)

Vanilla Technologies Inc., Salt Lake City, UT;

Power of Attorney: The patent practitioners associated with Customer Number 22827

Domestic Priority data as claimed by applicant

This appln claims benefit of 63/603,895 11/29/2023

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: 12/06/2024

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/963,034**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

**** SMALL ENTITY ****

Title

EVENT-BASED RESOURCE ALLOCATION SYSTEM

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

GRANTED

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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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number
18/963,034

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	64		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	280		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	320		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	*	x	= 0	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 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			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	664		TOTAL	

APPLICATION AS AMENDED - PART II

	(Column 1)	(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)	RATE(\$)	ADDITIONAL FEE(\$)
AMENDMENT A	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		OR	TOTAL ADD'L FEE	
AMENDMENT B	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		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.



United States Patent and Trademark Office

Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

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Kathi Vidal

Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

Derrick Brent

Deputy Under Secretary of Commerce for Intellectual Property and
Deputy Director of the United States Patent and Trademark Office



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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18/963,034

11/27/2024

Amjad Hussain

VANL-100

8683

22827 7590 01/21/2025
DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

EXAMINER

KESSLER, GREGORY AARON

ART UNIT

PAPER NUMBER

2197

NOTIFICATION DATE

DELIVERY MODE

01/21/2025

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):

USDOCKETING@DORITY-MANNING.COM

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 18/963,034	Applicant(s) Hussain et al.	
	Examiner CHERYL P GIBSON BAYLOR	Art Unit OPET	AIA (FITF) Status Yes

1. THE REQUEST FILED 27 November 2024 IS **GRANTED** .

The above-identified application has met the requirements for prioritized examination

A. ☒ for an original nonprovisional application (Track I).

B. ☐ for an application undergoing continued examination (RCE).

2. **The above-identified application will undergo prioritized examination.** The application will be accorded special status throughout its entire course of prosecution until one of the following occurs:

A. filing a **petition for extension of time** to extend the time period for filing a reply;

B. filing an **amendment to amend the application to contain more than four independent claims, more than thirty total claims**, or a multiple dependent claim;

C. filing a **request for continued examination** ;

D. filing a notice of appeal;

E. filing a request for suspension of action;

F. mailing of a notice of allowance;

G. mailing of a final Office action;

H. completion of examination as defined in 37 CFR 41.102; or

I. abandonment of the application.

Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.

/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET	
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1 st Named Inventor: Amjad Hussain	)	Examiner: Not Yet Assigned
	)	
Serial Number: 18/963,034	)	Group Art Unit: Not Yet Assigned
	)	
Filed: November 27, 2024	)	Customer Number: 22827
	)	
Confirmation No.: 8683	)	Deposit Account: 04-1403
	)	
Title: Event-Based Resource Allocation System	)	Docket Number: VANL-100
	)	

FILING COMPLETION UNDER 37 CFR 52, 53, and/or 85

Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

The following completes the filing of the above-identified patent application under Rule 52, 53, and/or 85:

- ☒ Rule 53 signed Declaration enclosed.
- ☐ This is a Rule 47 filing per attached Petition.
- ☐ Enclosed: Original signed Declaration with attached specification (including claims) which is a copy of specification/claims originally filed to secure above filing date.
- ☐ Specification originally filed in non-English language; hence verified translation attached of:
- ☐ Abstract ☐ ____ pages of Specification (only spec. & claims) ☐ Drawing Figs.
- ☐ Drawings: _ sheet(s) of formal drawings enclosed: size: ☐ A4 ☐ 14" ☐ 8½ by 11
- ☐ Priority is hereby claimed under rule 55 and 35 U.S.C. 119 based on prior foreign application(s) no(s). _____, filed in _____ on _____, respectively.
- ☐ Certified copy (copies) ☐ attached; ☐ already filed on _____ in U.S. Application, Serial No. _____, filed _____.
- ☐ "Small Entity" status under Rule 27 claimed. ☐ Attached Verified Statement
- ☐ Preliminary Amendment
- ☐ Attached: _____.

THE FOLLOWING FILING FEE IS BASED ON CLAIMS AS FILED LESS ANY ABOVE CANCELLED PER MPEP § 506 AND § 607

If not earlier paid, add Basic Filing Fee (\$350.00)	\$ <u>0.00</u>
If not earlier paid, add Application Search Fee (\$770.00)	\$ <u>0.00</u>
If not earlier paid, add Application Examination Fee (\$880.00)	\$ <u>0.00</u>
Total Effective Claims - 20 = 0 x \$ 200.00 =	\$ <u>0.00</u>
Independent Claims - 3 = 0 x \$ 600.00 =	\$ <u>0.00</u>

If any proper multiple dependent claim (ignore improper) is present, add \$860.00 \$.00

Filing Fee \$ 0.00

Since PTO Notice under Rule 52, 53, and/or 85 set an original due date of __,
petition is hereby made for an extension to cover the date this response is filed for which
the requisite fee is enclosed (1 month \$235; 2 months \$690; 3 months \$1,590; 4 months
\$2,495, 5 months \$3,395) \$ 0.00

If this is the first time either signed Declaration filed or filing fee paid, add Surcharge (\$64) \$ 64.00

Less any previous Surcharge paid for late Oath or Declaration \$ -64.00

Processing Fee for Updating Inventor Information (\$150) \$ 0.00

If "non-English" box above is X'd, add Rule 17(i) or (k) processing fee \$150.00) \$.00
If "Rule 47" box above is X-d, add Petition fee \$150.00 Rule 17(b) \$.00

Subtotal \$ 0.00

If "small entity" status box above is X'd, enter half (1/2) of subtotal & subtract \$ 0.00
Small Entity Electronic Filing Discount – Subtract \$80 \$ -.00
(only if original application was filed electronically and filing fees not previously paid)

If "micro entity" status box above is X'd, enter three-quarters (3/4) of subtotal & subtract \$ 0.00

Total = \$ 0.00

TOTAL FEE ENCLOSED \$ 0.00

The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any fees in addition to the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (deficiency only) now or hereafter relative to this application and the resulting official document under Rule 20, or credit any overpayment, to our Account No. shown in the heading hereof. This statement does not authorize charge of the issue fee in this case.

DORITY & MANNING ATTORNEYS AT LAW, P.A.

ADDRESS:

Post Office Box 1449
Greenville, SC 29602 USA
Customer ID No.: 22827
Telephone: (864) 271-1592
Facsimile: (864) 233-7342

By: Lawrence Nwaesei Reg. No. L0946
Signature: /Lawrence Nwaesei/
Date: January 23, 2025

I hereby certify that this correspondence and all attachments and any fee(s) are being electronically transmitted via the internet to the U.S. Patent and Trademark Office using Patent Center on January 23, 2025.

Lisa E. Glass

(Typed or printed name of person transmitting paper or fee)

/ Lisa E. Glass/

(Signature of person transmitting paper or fee)

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

**Title of
Invention**
Event-Based Resource Allocation System

As the below named inventor, I hereby declare that:

This declaration ☒ The attached application, or
is directed to:

☐ United States application or PCT international application number _____
filed on _____.

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: **Eugene Michael Farrell**

Date (Optional) : _____

Signature: *Eugene Michael Farrell* /

Signed by:

B00821FD653444E

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 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 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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LEGAL NAME OF INVENTOR

Inventor: Amjad Hussain

Date (Optional) : _____

Signature: Amjad Hussain

DocuSigned by:

FAF51AD92F63498

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.

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LEGAL NAME OF INVENTOR

 Inventor: **Steven D. Lockshin**

Date (Optional) : _____

 Signature: *Steven D. Lockshin*
8591477CA8D4424...

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.

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LEGAL NAME OF INVENTOR

Inventor: Alexander Pines

Date (Optional) : _____

Signature: *Alexander Pines* /

Signed by:

3A2C676D464C4E9...

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.

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LEGAL NAME OF INVENTOR

Inventor: Samuel Winthrop Trapkin

Date (Optional) : _____

Signed by:

Signature: Samuel Winthrop Trapkin

9706CD882413437...

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 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 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.**

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

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.

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

**Title of
Invention**
Event-Based Resource Allocation System

As the below named inventor, I hereby declare that:

This declaration ☒ The attached application, or
is directed to:

☐ United States application or PCT international application number _____
filed on _____.

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: **Kei Daniel Yasui**

Date (Optional) : _____

Signed by:
Signature: *Kei Daniel Yasui*

5A616A4D3AEC4A8...

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 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 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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UNITED STATES
PATENT AND TRADEMARK OFFICE

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

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/963,034

RECEIPT DATE / TIME
01/23/2025 10:46:43 AM Z ET

ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

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

PATENT # -

CONFIRMATION # 8683

FILED BY Lisa Glass

PATENT CENTER # 68875413

FILING DATE 11/27/2024

CUSTOMER # 22827

FIRST NAMED
INVENTOR Amjad Hussain

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY Lawrence Nwaesei

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VANL- 100_Declarations_23JAN202 5.pdf	8	-	308 KB
VANL- 100_Declarations_23JAN20 25-TRAN.LET.pdf	(1-2) 2	Transmittal Letter	157 KB
VANL- 100_Declarations_23JAN20 25-OATH.pdf	(3-8) 6	Oath or Declaration filed	183 KB

Digest

DOCUMENT

MESSAGE DIGEST(SHA-512)

VANL- 100_Declarations_23JAN2025. pdf	B91EBBA0B16BA4681918CAD085442468A8C4843C56EC6C24 DF563C9B440C83F0D5465BB4C2E70400BD1BB8EA3417A63E D2369DBB1987F4E155411FFFF3D640B6
VANL- 100_Declarations_23JAN2025- TRAN.LET.pdf	D7B5644C5140EE243823BEF3D78E13050312E30588324FFEA BAB327098E7C05C358E69792AA4EB5751359B615BD0332590 8410C270BAC3682ABC99945021513B
VANL- 100_Declarations_23JAN2025- OATH.pdf	5BA1EEB191EA3DC1B5E2B6E7F481D59633E7AA582A6D13D3 E88DC6BE197FF65D969015CE5D05FBBBB6EE5C3E3DD156F B238BC2C90D74B29E79319FCEE9D5D55E

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.

<i>Search Notes</i> 	Application/Control No. 18/963,034	Applicant(s)/Patent Under Reexamination Hussain et al.
	Examiner Gregory Kessler	Art Unit 2197

CPC - Searched*		
Symbol	Date	Examiner
G06F9/5027	01/21/2025	GAK

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
Conducted Search	01/21/2025	GAK
Conducted Inventor Name Search	01/21/2025	GAK
Conducted NPL Search (IP.com)	01/21/2025	GAK

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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<i>Index of Claims</i> 	Application/Control No. 18/963,034	Applicant(s)/Patent Under Reexamination Hussain et al.
	Examiner Gregory Kessler	Art Unit 2197

✓	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	01/21/2025								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
	10	✓								
	11	✓								
	12	✓								
	13	✓								
	14	✓								
	15	✓								
	16	✓								
	17	✓								
	18	✓								
	19	✓								
	20	✓								

Bibliographic Data

Application No: 18/963,034

Foreign Priority claimed: ☐ Yes ☒ No

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

Verified and Acknowledged: /GREGORY KESSLER/

Examiner's Signature

Initials

Title: EVENT-BASED RESOURCE ALLOCATION SYSTEM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
11/27/2024	718	2197	VANL-100
RULE			

APPLICANTS

Vanilla Technologies Inc., Salt Lake City, UT, UNITED STATES

INVENTORS

Amjad Hussain, Newcastle, WA, UNITED STATES

Kei Daniel Yasui, Los Angeles, CA, UNITED STATES

Alexander Pines, Los Angeles, CA, UNITED STATES

Samuel Winthrop Trapkin, Post Falls, ID, UNITED STATES

Steven D. Lockshin, Beaverton, OR, UNITED STATES

Eugene Michael Farrell, Sammamish, WA, UNITED STATES

CONTINUING DATA

This application has PRO of 63603895 11/29/2023

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

12/06/2024

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

DORITY & MANNING, P.A.

POST OFFICE BOX 1449

GREENVILLE, SC 29602-1449

UNITED STATES

FILING FEE RECEIVED

\$2,408

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	10716	G06F9/5027.cpc.	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:29 PM
L2	0	L1 resource ADJ data ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:29 PM
L3	184	resource ADJ data ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:29 PM
L4	3612	resource ADJ document	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:30 PM
L5	2	L3 L4	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:30 PM
L6	0	resource ADJ document ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:30 PM
L7	60	L4 prompts near2 (generat\$3 OR creat\$3 OR instantiat\$3)	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:31 PM
L8	1	visualization near2 distribution near2 assets	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:52 PM
L9	0	L1 L7	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:52 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.



Search History

Report Run Date: 2025-01-21 UTC

Searches: 1

Markers: 0

Search #	Timestamp	Results	Page
1	2025-01-21 21:54 UTC	1,751,541	3

A **Content: Non-Patent Literature (26)**

IEEE Xplore Publications: IEEE Periodicals | IEEE Xplore Publications: IEEE Conferences | IEEE Xplore Publications: IEEE Standards | IEEE Xplore Publications: IEEE Early Access | IEEE Xplore Publications: SMPTE Periodicals | IEEE Xplore Publications: SMPTE Conferences | IEEE Xplore Publications: SMPTE Standards | IEEE Xplore Publications: MIT Press eBooks | IEEE Xplore Publications: Wiley-IEEE eBooks | IEEE Xplore Publications: IBM Periodicals | IEEE Xplore Publications: URSI Periodicals | IEEE Xplore Publications: VDE Conferences | IEEE Xplore Publications: Periodicals from China | IEEE Xplore Publications: Ericsson Technology Review | IEEE Xplore Publications: Manning Books | IEEE Xplore Publications: Packt Books | IP.com Prior Art Database: The IP.com Journal | IP.com Prior Art Database: Internet Society RFC | IP.com Prior Art Database: IBM TDB Archive | IP.com Prior Art Database: Legacy Journals | IP.com Prior Art Database: Software Patent Institute | OnePetro.org: Periodicals at OnePetro.org | OnePetro.org: Conferences at OnePetro.org | Other Literature: IBM Redbooks | Other Literature: PubMed Central | Other Literature: arXiv.org

1 2025-01-21 21:54 UTC | 1,751,541 results from 

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
resource document fields

Concept Modifiers: None

Filters: None



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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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18/963,034

11/27/2024

Amjad Hussain

VANL-100

8683

22827 7590 01/27/2025
DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

EXAMINER

KESSLER, GREGORY AARON

ART UNIT

PAPER NUMBER

2197

NOTIFICATION DATE

DELIVERY MODE

01/27/2025

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):

USDOCKETING@DORITY-MANNING.COM

Office Action Summary

Application No.

18/963,034

Applicant(s)

Hussain et al.

Examiner

Gregory Kessler

Art Unit

2197

AIA (FITF) Status

Yes

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

Period for Reply

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

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

Status

1) ☒ Responsive to communication(s) filed on 11/27/2024.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on ____.

2a) ☐ This action is **FINAL**.

2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☒ Claim(s) 1-20 is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 1-20 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement

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

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☒ The drawing(s) filed on 11/27/2024 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

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

Certified copies:

a) ☐ All b) ☐ Some** c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. ____.

3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

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

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

3) ☐ Interview Summary (PTO-413)

Paper No(s)/Mail Date ____.

2) ☐ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b)

4) ☐ Other: ____.

Paper No(s)/Mail Date ____.

DETAILED ACTION

1. Claims 1-20 are presented for examination.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to a judicial exception (i.e., a law of nature, a natural phenomenon, or an abstract idea) without significantly more.

Claim 1 recites the limitations “generating...one or more prompts comprising requests for information...”, “receiving...one or more responses...”, “generating...resource data comprising resource data fields and one or more resource data field values...”, and “generating...one or more indications...wherein the one or more indications comprises one or more visualizations...” These recited steps, under the broadest reasonable interpretation, cover performance of the steps in the human mind. For example, “generating...one or more prompts...” and “receiving...one or more responses...” in the context of the claim encompasses simply a request for data and a response answering the request. It is nothing more than information sharing. Further, “generating...resource data” and “generating...one or more visualizations...” are nothing more than performing a simple algorithm on received responses to organize them and present the results.

If a claim limitation, under its broadest reasonable interpretation, covers performance of the limitation in the human mind, then it falls within the “Mental Processes” grouping of abstract ideas. Accordingly, the claim recites an abstract idea. The method performing these steps is recited at a high-level of generality (i.e., as generic “computer-implemented method” whose steps are performed “by a

computing system comprising one or more processors”) such that they amount to no more than mere instructions to apply the judicial exception using generic computer components.

The claim does not include additional elements that are sufficient to amount to significantly more than the judicial exception. The claim is not patent eligible.

Claims 2-16 are rejected under 35 U.S.C. 101 as non-statutory for at least the reasons stated above. The claims are dependent on claim 1, but do not add any feature or subject matter that would solve the non-statutory deficiencies of claim 1. For instance, claims 2, 4, 6, 9, and 15 simply provide further receiving of various requests and execution of algorithms in response. Claims 3, 5, 7, 8, and 11-14 simply provide clarification on the nature of various elements being considered in the algorithms. Finally, claims 10 and 16 involve providing notifications of changes in response to the changes being made. Claims 2-16 do not add any steps or elements, when considered both individually and as a combination, that would convert claim 1 into patent-eligible subject matter.

Claims 17 and 18 are system claims with the same limitations as claims 1-16, citing only additional generic computer components performing the generic computer functions (“one or more processors,” “one or more non-transitory computer-readable media”). Thus, they are rejected for the same reasons.

Claims 19 and 20 are medium claims with the same limitations as claims 1-16, citing only additional generic computer components performing the generic computer functions (“one or more non-transitory computer-readable media”). Thus, they are rejected for the same reasons.

Claims 1-20 are therefore not drawn to patent-eligible subject matter as they are directed to an abstract idea without significantly more.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory Kessler whose telephone number is (571)270-7762. The examiner can normally be reached M-Th 8:30 - 5, Alternate Fridays 8:30-4.

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

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bradley Teets can be reached on (571)272-3338. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/GREGORY A KESSLER/
Primary Examiner, Art Unit 2197



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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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18/963,034

11/27/2024

Amjad Hussain

VANL-100

8683

22827 7590 04/11/2025
DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

EXAMINER

KESSLER, GREGORY AARON

ART UNIT

PAPER NUMBER

2197

NOTIFICATION DATE

DELIVERY MODE

04/11/2025

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):

USDOCKETING@DORITY-MANNING.COM

<i>Applicant-Initiated Interview Summary</i>	Application No. 18/963,034	Applicant(s) Hussain et al.		
	Examiner Gregory Kessler	Art Unit 2197	AIA (First Inventor to File) Status Yes	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
Gregory Kessler	Primary Examiner	Telephonic
Lawrence Nwaesei	Attorney of Record	

Date of Interview: 07 April 2025

Issues Discussed:

35 U.S.C. 101

Applicant's representative presented proposed claim amendments to overcome the existing rejection under 35 U.S.C. 101. Examiner expressed that the amendments would likely overcome the existing rejection, subject to further search and consideration.

/GREGORY A KESSLER/ Primary Examiner, Art Unit 2197	
<p>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</p> <p>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</p>	

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the 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.

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.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/963,034	Filing Date 11/27/2024	☐ To be Mailed
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ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	RATE (\$)	FEE (\$)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		x \$40 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		x \$ 192 =	
☐ 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).			
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)	RATE (\$)	ADDITIONAL FEE (\$)
AMENDMENT	04/17/2025	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		
	Total (37 CFR 1.16(i))	* 20	Minus	** 20	= 0	x \$ 80 =	0
	Independent (37 CFR 1.16(h))	* 3	Minus	*** 3	= 0	x \$ 240 =	0
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	0
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	ADDITIONAL FEE (\$)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$ 0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$ 0 =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.						LIE	
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".						/TAWANA E CAMPBELL/	
*** 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 number found in the appropriate box in column 1.							

This collection of information is required by 37 CFR 1.16. 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 12 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.

LISTING OF THE CLAIMS

In accordance with 37 C.F.R. § 1.121, a claim listing including the status and text of all claims as currently presented appears below.

1. (Currently Amended) A computer-implemented method comprising:
generating, by a computing system comprising one or more processors, based on inputting one or more resource documents into one or more machine-learning models, one or more prompts comprising requests for information associated with resource allocation instructions for distribution of resources, wherein the one or more machine-learning models are configured to generate the one or more prompts [[are]] based on recognition of textual features of the one or more resource documents associated with the resources, wherein the one or more resource documents comprise one or more resource document fields, and wherein the resource allocation instructions are associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients;
receiving, by the computing system, one or more responses to the one or more prompts;
generating, by the computing system, based on inputting the one or more responses and rule data comprising one or more rules associated with the resources into the one or more machine-learning models, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields, wherein the one or more machine-learning models are trained based on training data comprising training resource data and training rule data, and wherein the one or more resource data fields are based on the one or more resource document fields, and wherein the one or more resource data field values are based on the one or more responses; ~~and~~
generating, by the computing system, based on the resource data, one or more indications associated with the resource allocation instructions, wherein the one or more indications comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients; and
updating, by the computing system, the one or more visualizations in real-time based on changes in one or more values of the one or more assets.
2. (Original) The computer-implemented method of claim 1, further comprising:

receiving, by the computing system, an asset valuation request associated with a projected asset valuation of the one or more assets; and

determining, by the computing system, based on the resource data, the projected asset valuation of the one or more assets, wherein the one or more indications associated with the resource allocation instructions comprise the projected asset valuation of the one or more assets.

3. (Currently Amended) The computer-implemented method of claim 2, wherein the one or more machine-learning models comprise one or more machine-learning asset projection models, and wherein the projected asset valuation is based on inputting the resource data and financial data into the one or more machine-learning asset projection models that are configured to generate the projected asset valuation, wherein the financial data comprises one or more predicted asset appreciation rates or one or more asset depreciation rates.

4. (Original) The computer-implemented method of claim 1, further comprising: receiving, by the computing system, an asset distribution request associated with a projected asset distribution of the one or more assets to the one or more entities;

determining, by the computing system, based on the resource data, one or more relationships between the one or more entities; and

determining, by the computing system, based on the resource data and the one or more relationships between the one or more entities, a plurality of projected asset distributions of the one or more assets to the one or more entities, wherein the one or more indications associated with the resource allocation instructions comprise the plurality of projected asset distributions of the one or more assets to the one or more entities.

5. (Currently Amended) The computer-implemented method of claim 4, wherein the one or more machine-learning models comprise one or more machine-learning distribution projection models, and wherein the projected asset distribution is based on inputting the resource data and relationship data associated with the one or more relationships into the one or more machine-learning distribution projection models that are configured to generate the projected asset distribution.

6. (Original) The computer-implemented method of claim 1, further comprising:
receiving, by the computing system, one or more conditions associated with the one or more entities or the one or more assets; and
determining, by the computing system, one or more scenarios associated with the one or more conditions, wherein the one or more scenarios comprise one or more projected valuations of the one or more assets or one or more predicted distributions of the one or more assets to the one or more resource recipients, wherein the one or more indications associated with the resource allocation instructions comprise the one or more scenarios associated with the one or more scenarios.

7. (Original) The computer-implemented method of claim 6, wherein the one or more conditions comprise a possible life expectancy of the one or more entities or a possible valuation of the one or more assets.

8. (Currently Amended) The computer-implemented method of claim 6, wherein the one or more machine-learning models comprise one or more machine-learning scenario models, and wherein the determining the one or more scenarios is based on inputting the resource data and the one or more conditions into the one or more machine-learning scenario models that are configured to generate the one or more scenarios.

9. (Original) The computer-implemented method of claim 1, further comprising:
receiving, by the computing system, event data comprising information associated with a plurality of events associated with the resources;
determining, by the computing system, based on the resource data, whether one or more events of the plurality of events satisfy one or more event criteria; and
generating, by the computing system, one or more event notifications associated with the one or more events that satisfy the one or more event criteria, wherein the one or more indications associated with the resource allocation instructions comprise the one or more event notifications.

10. (Original) The computer-implemented method of claim 9, further comprising:

sending, by the computing system, the one or more event notifications to one or more remote computing devices associated with an entity that is authorized to receive the one or more event notifications.

11. (Original) The computer-implemented method of claim 9, wherein the plurality of events comprise marriage, divorce, receipt of a new asset, birth of a child, or death of at least one of the one or more entities.

12. (Original) The computer-implemented method of claim 1, wherein the one or more resource documents comprise one or more network policies, one or more user guides, one or more access policies, one or more authorization policies, one or more authentication policies, one or more wills, one or more trusts, a power of attorney, one or more titles, one or more deeds, one or more account resource recipient designations, one or more guardianship designations, one or more insurance policies, or one or more healthcare directives.

13. (Original) The computer-implemented method of claim 1, wherein the generating, by the computing system, based on one or more responses and rule data comprising one or more rules associated with the resources, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields, wherein the one or more resource data fields are based on the one or more resource document fields, and wherein the one or more resource data field values are based on the one or more responses comprises:

determining, by the computing system, one or more locations associated with the one or more assets, wherein the one or more locations comprise one or more administrative divisions; and

determining, by the computing system, the one or more rules associated with the one or more locations.

14. (Original) The computer-implemented method of claim 1, wherein the one or more entities further comprise one or more trustees of the resources or one or more creditors, and

wherein the one or more assets comprise real property, tangible personal property, one or more securities, or cash.

15. (Original) The computer-implemented method of claim 1, wherein the one or more rules are based on one or more regulations associated with the resources, and further comprising:

receiving, by the computing system, data associated with one or more modifications of the one or more regulations;

modifying, by the computing system, the rule data based on the data associated with one or more modifications of the one or more regulations; and

generating, by the computing system, one or more rule modification notifications associated with the one or more modifications of the one or more regulations, wherein the one or more indications associated with the resource allocation instructions comprise the one or more rule modification notifications.

16. (Original) The computer-implemented method of claim 15, further comprising:
sending, by the computing system, the one or more rule modification notifications to one or more remote computing devices associated with an entity authorized to receive the one or more rule modification notifications.

17. (Currently Amended) A computing system, comprising:
one or more processors;
one or more non-transitory computer-readable media storing instructions that, when executed by the one or more processors, cause the computing system to perform operations, the operations comprising:

generating, based on inputting one or more resource documents into one or more machine-learning models, one or more prompts comprising requests for information associated with resource allocation instructions associated with resources, wherein the one or more machine-learning models are configured to generate the one or more prompts [[are]] based on recognition of textual features of the one or more resource documents associated with the resources, wherein the one or more resource documents comprise one or more resource

document fields, and wherein the resource allocation instructions are associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients;

receiving one or more responses to the one or more prompts;

generating, based on inputting the one or more responses and rule data comprising one or more rules associated with the resources into the one or more machine-learning models, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields, wherein the one or more machine-learning models are trained based on training data comprising training resource data and training rule data, and wherein the one or more resource data fields are based on the one or more resource document fields, and wherein the one or more resource data field values are based on the one or more responses; and

generating, based on the resource data, one or more indications associated with the resource allocation instructions, wherein the one or more indications comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients; and

updating the one or more visualizations in real-time based on changes in one or more values of the one or more assets.

18. (Original) The computing system of claim 17, wherein the one or more rules are based on one or more regulations associated with the resources, and wherein the operations further comprise:

receiving data associated with one or more modifications of the one or more regulations; modifying the rule data based on the data associated with one or more modifications of the one or more regulations; and

generating one or more rule modification notifications associated with the one or more modifications of the one or more regulations, wherein the one or more indications associated with the resource allocation instructions comprise the one or more rule modification notifications.

19. (Currently Amended) One or more non-transitory computer-readable media that collectively store instructions that, when executed by one or more computing devices, cause the one or more computing devices to perform operations, the operations comprising:

generating, based on inputting one or more resource documents into one or more machine-learning models, one or more prompts comprising requests for information associated with resource allocation instructions associated with resources, wherein the one or more machine-learning models are configured to generate the one or more prompts [[are]] based on recognition of textual features of the one or more resource documents associated with the resources, wherein the one or more resource documents comprise one or more resource document fields, and wherein the resource allocation instructions are associated with distribution of one or more assets of the resources to one or more entities comprising one or more resource recipients;

receiving one or more responses to the one or more prompts;

generating, based on inputting the one or more responses and rule data comprising one or more rules associated with the resources into the one or more machine-learning models, resource data comprising one or more resource data fields and one or more resource data field values that correspond to the one or more resource data fields, wherein the one or more machine-learning models are trained based on training data comprising training resource data and training rule data, and wherein the one or more resource data fields are based on the one or more resource document fields, and wherein the one or more resource data field values are based on the one or more responses; ~~and~~

generating, based on the resource data, one or more indications associated with the resource allocation instructions, wherein the one or more indications comprise one or more visualizations of the distribution of the one or more assets to the one or more resource recipients; and

updating the one or more visualizations in real-time based on changes in one or more values of the one or more assets.

20. (Original) The one or more non-transitory computer-readable media of claim 19, wherein the one or more rules are based on one or more regulations associated with the resources, and wherein the operations further comprise:

receiving data associated with one or more modifications of the one or more regulations;
modifying the rule data based on the data associated with one or more modifications of
the one or more regulations; and
generating one or more rule modification notifications associated with the one or more
modifications of the one or more regulations, wherein the one or more indications associated
with the resource allocation instructions comprise the one or more rule modification
notifications.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1 st Named Inventor:	Amjad Hussain	)	Examiner:	Gregory Aaron Kessler
		)		
Serial Number:	18/963,034	)	Group Art Unit:	2197
		)		
Filed:	November 27, 2024	)	Customer Number:	22827
		)		
Confirmation No.:	8683	)	Deposit Account:	04-1403
		)		
Title:	Event-Based Resource Allocation System	)	Docket Number:	VANL-100
		)		

AMENDMENT

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

Dear Commissioner:

In response to the Non-Final Office Action dated January 27, 2025, please amend the present application as set forth below and consider the remarks that follow.

Listing of the Claims begins on page 2 of this paper.

Remarks begin on page 10 of this paper.

REMARKS

Claims 1-20 are currently pending. Claims 1-20 stand rejected. Claims 1, 3, 5, 8, 17, and 19 are currently amended. Support for the claim amendments can be found throughout the specification, including in at least paragraphs [0032], [0033], [0038], [0048], [0075], [0107], [0130], and [0157]-[0159]. Applicant requests reconsideration and allowance in view of the amendments to the claims and the following remarks.

I. Statement of the Interview

Applicant wishes to thank the Examiner for the courtesies extended during the telephone interview on April 7, 2025. During the interview, the Examiner and the Applicant's representative discussed the claimed subject matter and the cited art as well as possible recommendations to further clarify and distinguish the claims from the cited art.

II. Rejections under 35 U.S.C. § 101

Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is allegedly directed to an abstract idea without significantly more. Without commenting on the propriety of these rejections, the claims have been amended herewith, and it is respectfully requested that the rejection of claims 1-20 under 35 U.S.C. § 101 be withdrawn.

III. Conclusion

In summary, Applicant respectfully submits that the present claims patentably define over the cited references for at least the reasons set forth above. As such, it is believed that the present application is in complete condition for allowance and favorable action is respectfully requested. Applicant requests entry of this Amendment followed by allowance of the application. Examiner GREGORY AARON KESSLER is invited and encouraged to telephone the undersigned, however, should any issues remain after consideration of this Amendment.

Please charge any additional fees required by this Amendment to Deposit Account No. 04-1403.

<<<Signature block is on the following page.>>>

Serial Number: 18/963,034
Response Dated: April 17, 2025
Office Action Date: January 27, 2025

Attorney Docket Number: VANL-100

Respectfully submitted,

DORITY & MANNING, P.A.

April 17, 2025

Date

/Lawrence Nwaesei/

Lawrence Nwaesei

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Greenville, SC 29602

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I hereby certify that this paper and all attachments
and any fee are being transmitted via the internet
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Patent Center on:

DATE: April 17, 2025

NAME: Lisa E. Glass

SIGNATURE: /Lisa E. Glass /



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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/963,034

RECEIPT DATE / TIME
04/17/2025 08:35:59 AM Z ET

ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8683	FILED BY	Lisa Glass
PATENT CENTER #	70044202	FILING DATE	11/27/2024
CUSTOMER #	22827	FIRST NAMED INVENTOR	Amjad Hussain
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Lawrence Nwaesei

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VANL-100_Response_17APR2025.pdf	11	-	142 KB
VANL-100_Response_17APR2025-A....pdf (1-1)	1	Amendment/Request for Reconsideration-After Non-Final Rejection	78 KB
VANL-100_Response_17APR2025-CLM.pdf (2-9)	8	Claims	97 KB
VANL-100_Response_17APR2025-REM.pdf (10-11)	2	Applicant Arguments/Remarks Made in an Amendment	118 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
VANL- 100_Response_17APR2025.pdf	1DFA3DC28C30AA951C605C5A327158B4EB3EFA035879C59F 29EABD6A6584998F0FEE732D84F5F12F05E0B05B758DC656C AD445202E814B144FA8BCB3FD013D83
VANL- 100_Response_17APR2025- A....pdf	BC9A1E7D0E4B619E4299D335F48AEB09120F34521999A42B3 7AA0766BA82374FCDC28ECFAF0ED0CCD319FD8599C897B2 D8D1E0EE4051FDCF45B23DBC38CD6A5A
VANL- 100_Response_17APR2025- CLM.pdf	AFF6C53197D945FEDEC00A1FC6A0D089201312971C87C08C AFA9AFD5F609273DE75E343CBC5D9A09BBBC91ABF17019AE 08C5AC89F7A2329B0722548E8F94CE1E
VANL- 100_Response_17APR2025- REM.pdf	22FFCC8D6F90B0769907A32C1EF61B7BF2A22561EE27ADBD 5163D5236B1F87157A076F58CAF884D0089A78D93CFF7FC0D 4537EA7D4891EC5EDDF64D7A9059255

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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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NOTICE OF ALLOWANCE AND FEE(S) DUE

22827 7590 05/02/2025
DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

EXAMINER	
KESSLER, GREGORY AARON	
ART UNIT	PAPER NUMBER
2197	

DATE MAILED: 05/02/2025

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/963,034	11/27/2024	Amjad Hussain	VANL-100	8683

TITLE OF INVENTION: EVENT-BASED RESOURCE ALLOCATION SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$516	\$0.00	\$0.00	\$516	08/04/2025

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.

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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)

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22827 7590 05/02/2025
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Certificate of Mailing or Transmission

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/963,034	11/27/2024	Amjad Hussain	VANL-100	8683

TITLE OF INVENTION: EVENT-BASED RESOURCE ALLOCATION SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$516	\$0.00	\$0.00	\$516	08/04/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
KESSLER, GREGORY AARON	2197	718-104000

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

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

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

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 _____

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

2 _____

3 _____

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

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

(A) NAME OF ASSIGNEE

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

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

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

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

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

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

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

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

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/963,034	11/27/2024	Amjad Hussain	VANL-100	8683
<div>22827 7590 05/02/2025</div> <div>DORITY & MANNING, P.A.</div> <div>POST OFFICE BOX 1449</div> <div>GREENVILLE, SC 29602-1449</div>				
<div>EXAMINER</div> <div>KESSLER, GREGORY AARON</div>				
<div>ART UNIT PAPER NUMBER</div> <div>2197</div>				
DATE MAILED: 05/02/2025				

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

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

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

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

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

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

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

Privacy Act Statement

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

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

Routine uses of the information in this record may include disclosure to:

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

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

Notice of Allowability	Application No. 18/963,034	Applicant(s) Hussain et al.	
	Examiner Gregory Kessler	Art Unit 2197	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 the claims filed on 04/17/2025.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-20 . 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 _____.	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. _____.	

/GREGORY A KESSLER/ Primary Examiner, Art Unit 2197	
--	--

Issue Classification 	Application/Control No. 18/963,034	Applicant(s)/Patent Under Reexamination Hussain et al.
	Examiner Gregory Kessler	Art Unit 2197

CPC					
Symbol				Type	Version
G06F	/	9	/	5027	F 2013-01-01

CPC Combination Sets						
Symbol			Type	Set	Ranking	Version
/	/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/GREGORY A KESSLER/ Primary Examiner, Art Unit 2197	28 April 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	9

Issue Classification 	Application/Control No. 18/963,034	Applicant(s)/Patent Under Reexamination Hussain et al.
	Examiner Gregory Kessler	Art Unit 2197

INTERNATIONAL CLASSIFICATION			
CLAIMED			
G06F	/	9	/ 46
NON-CLAIMED			
	/		/

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
718	104

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

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	20	
/GREGORY A KESSLER/ Primary Examiner, Art Unit 2197	28 April 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	9

Issue Classification 	Application/Control No. 18/963,034	Applicant(s)/Patent Under Reexamination Hussain et al.
	Examiner Gregory Kessler	Art Unit 2197

☒ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

NONE	Total Claims Allowed:	
(Assistant Examiner)	(Date)	20
/GREGORY A KESSLER/ Primary Examiner, Art Unit 2197	28 April 2025	O.G. Print Claim(s)
(Primary Examiner)	(Date)	1
		O.G. Print Figure
		9

<i>Search Notes</i> 	Application/Control No. 18/963,034	Applicant(s)/Patent Under Reexamination Hussain et al.
	Examiner Gregory Kessler	Art Unit 2197

CPC - Searched*		
Symbol	Date	Examiner
G06F9/5027	01/21/2025	GAK

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
Conducted Search	01/21/2025	GAK
Conducted Inventor Name Search	01/21/2025	GAK
Conducted NPL Search (IP.com)	01/21/2025	GAK

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	PGPub Interference Text Search	04/28/2025	GAK

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Search History

Report Run Date: 2025-04-28 UTC

Searches: 1

Markers: 0

Search #	Timestamp	Results	Page
1	2025-04-28 18:13 UTC	1,832,407	3



Content: Non-Patent Literature (26)

IEEE Xplore Publications: IEEE Periodicals | IEEE Xplore Publications: IEEE Conferences | IEEE Xplore Publications: IEEE Standards | IEEE Xplore Publications: IEEE Early Access | IEEE Xplore Publications: SMPTE Periodicals | IEEE Xplore Publications: SMPTE Conferences | IEEE Xplore Publications: SMPTE Standards | IEEE Xplore Publications: MIT Press eBooks | IEEE Xplore Publications: Wiley-IEEE eBooks | IEEE Xplore Publications: IBM Periodicals | IEEE Xplore Publications: URSI Periodicals | IEEE Xplore Publications: VDE Conferences | IEEE Xplore Publications: Periodicals from China | IEEE Xplore Publications: Ericsson Technology Review | IEEE Xplore Publications: Manning Books | IEEE Xplore Publications: Packt Books | IP.com Prior Art Database: The IP.com Journal | IP.com Prior Art Database: Internet Society RFC | IP.com Prior Art Database: IBM TDB Archive | IP.com Prior Art Database: Legacy Journals | IP.com Prior Art Database: Software Patent Institute | OnePetro.org: Periodicals at OnePetro.org | OnePetro.org: Conferences at OnePetro.org | Other Literature: IBM Redbooks | Other Literature: PubMed Central | Other Literature: arXiv.org

1 2025-04-28 18:13 UTC | 1,832,407 results from

De-Dup: None | Relevance Cut-off: None | Sort: Relevance

Main Concept: Text
resource document fields

Concept Modifiers: None

Filters: None

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	10716	G06F9/5027.cpc.	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:29 PM
L2	0	L1 resource ADJ data ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:29 PM
L3	184	resource ADJ data ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:29 PM
L4	3612	resource ADJ document	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:30 PM
L5	2	L3 L4	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:30 PM
L6	0	resource ADJ document ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:30 PM
L7	60	L4 prompts near2 (generat\$3 OR creat\$3 OR instantiat\$3)	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:31 PM
L8	1	visualization near2 distribution near2 assets	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:52 PM
L9	0	L1 L7	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/01/21 04:52 PM
L10	10982	G06F9/5027.cpc.	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM
L11	0	L1 resource ADJ data ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM
L12	186	resource ADJ data ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM
L13	3680	resource ADJ document	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM
L14	2	L3 L4	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM
L15	0	resource ADJ document ADJ field	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM
L16	66	L4 prompts near2 (generat\$3 OR creat\$3 OR instantiat\$3)	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM
L17	2	visualization near2 distribution near2 assets	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM
L18	0	L1 L7	(US-PGPUB; USPAT; EPO)	AND	ON	ON	2025/04/28 01:47 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.



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ELECTRONIC PAYMENT RECEIPT

APPLICATION #
18/963,034

RECEIPT DATE / TIME
05/15/2025 02:11:15 PM Z ET

ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

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

PATENT # -

CONFIRMATION # 8683

FILED BY Lawrence Nwaesei

PATENT CENTER # 70433972

AUTHORIZED BY Lawrence Nwaesei

CUSTOMER # 22827

FILING DATE 11/27/2024

CORRESPONDENCE ADDRESS -

FIRST NAMED INVENTOR Amjad Hussain

Payment Information

PAYMENT METHOD
CARD / 1257

PAYMENT TRANSACTION ID
E2025EE12248423

PAYMENT AUTHORIZED BY
Lawrence Nwaesei

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2830	PROCESSING FEE, EXCEPT IN PROVISIONAL APPLICATIONS	60.00	1	60.00
TOTAL AMOUNT:				\$60.00

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.



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Corrected Application Data Sheet

18963034 : EVENT-BASED RESOURCE ALLOCATION SYSTEM

~~Strike through~~ indicates removal of data from existing record Underline indicates new data being added to the application If no data is shown, no data has been corrected

Inventor Information

Data of record

Updated Data

Amjad Hussain

Residence Information

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~~Salt Lake City, UT 84101~~
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~~Salt Lake City, UT 84101~~
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Steven D. Lockshin

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~~Salt Lake City, UT 84101~~
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Bellevue, WA 98004

Eugene Michael Farrell

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US Residency
Sammamish, WA
UNITED STATES

Mailing Address

c/o Vanilla Technologies Inc.
~~310 South Main St., 10th Floor~~
~~Salt Lake City, UT 84101~~
UNITED STATES

Mailing Address

777 108th Avenue NE, Suite 1650
Bellevue, WA 98004

Application Information

Title of Invention	EVENT-BASED RESOURCE ALLOCATION SYSTEM
Attorney Docket Number	VANL-100
Entity Status	Small

Domestic Benefit/National Stage Information

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c), 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(a)(2) or CFR 1.78(a)(4), and need not otherwise be made part of the specification.

Data of record	Updated Data
----------------	--------------



No data change in this section

Foreign Priority Information

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. 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) 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).

Data of record	Updated Data
----------------	--------------



No data change in this section

Applicant Information

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.

Data of record

Updated Data

Vanilla Technologies Inc.

~~310 South Main St.~~

~~10th Floor~~

~~Salt Lake City, UT 84101~~

UNITED STATES

Phone : ---

Email : ---

Fax : ---

Organization

Applicant type : Assignee

777 108th Avenue NE

Suite 1650

Bellevue, WA 98004

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.

Data of record

Updated Data



No data change in this section

Signature

NOTE:

This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b).

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

Signature	First name	Last name	Registration #	Date
/Lawrence Nwaesei/	Lawrence	Nwaesei	L0946	05/15/2025



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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/963,034

RECEIPT DATE / TIME
05/15/2025 02:11:15 PM Z ET

ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8683	FILED BY	Lawrence Nwaesei
PATENT CENTER #	70433972	FILING DATE	11/27/2024
CUSTOMER #	22827	FIRST NAMED INVENTOR	Amjad Hussain
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Lawrence Nwaesei

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
CorrectedADS.pdf	5	Application Data Sheet to update/correct info	116 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
CorrectedADS.pdf	CC5A9EBF7C5E74A8A73AC87F54CBD513E9D5C76DF157E095 895601BAB3A08DCA1BC05CA62A7955F4C143A31AB64619923 1CA7FE4660C455D8A0F3E97B37A528A

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

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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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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/963,034

RECEIPT DATE / TIME
05/15/2025 02:22:26 PM Z ET

ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

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

PATENT # -

CONFIRMATION # 8683

FILED BY Lisa Glass

PATENT CENTER # 70446002

FILING DATE 11/27/2024

CUSTOMER # 22827

FIRST NAMED
INVENTOR Amjad Hussain

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY Lawrence Nwaesei

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VANL-100_RequestForCorrectedFilingReceipt_15MAY2025.pdf	1	Request for Corrected Filing Receipt	109 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
VANL-100_RequestForCorrectedFilingReceipt_15MAY2025.pdf	352F7BBD37EA92C7194C623DA39A63669FF032C3D370A355873E0F4E7C94C88B53EB7DF28EBCFF130F5E8234464F16928D78619FC0128386AE7D66937C3FCF81

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

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1 st Named Inventor: Amjad Hussain	)	Examiner: Gregory Aaron Kessler
	)	
Serial Number: 18/963,034	)	Group Art Unit: 2197
	)	
Filed: 11/27/2024	)	Customer Number: 22827
	)	
Confirmation No.: 8683	)	Deposit Account: 04-1403
	)	
Title: EVENT-BASED RESOURCE ALLOCATION SYSTEM	)	Docket Number: VANL-100
	)	

REQUEST FOR CORRECTED FILING RECEIPT

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

Dear Commissioner:

Applicant has recently changed their Corporate Address to **777 108th Avenue NE, Suite 1650, Bellevue, Washington, 98004**. A Corrected Application Data Sheet indicating the update has been provided for your convenience.

Please correct corresponding Office records and issue a corrected Filing Receipt.

The Commissioner is encouraged to contact the undersigned at his/her convenience should he/she have any questions regarding this application and to resolve any issues.

Please charge any additional fees required by this Request to Deposit Account No. 04-1403.

Respectfully submitted,

DORITY & MANNING, P.A.

May 15, 2025

Date

/Lawrence Nwaesei/

Lawrence Nwaesei

Registration Number: L0946

I hereby certify that this paper and all attachments and any fee are being transmitted via the internet to the U.S. Patent and Trademark Office via Patent Center on:

DATE: May 15, 2025

NAME: Lisa E. Glass

SIGNATURE: /Lisa E. Glass/

P.O. Box 1449
Greenville, SC 29602
Telephone: (864) 271-1592
Facsimile: (864) 233-7342



United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :My-Hoa Nguyen

Refund Accounting Date:05/19/2025

Effective Date	Sale Item Reference Number	Refund Total
05/19/2025	18963034	\$60.00

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method	Account Number
I20255I749365911	2830	PROCESSING FEE, EXCEPT PROV. APPLS.	\$60.00	Mastercard	*****1257



United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :My-Hoa Nguyen

Sale Adjustment Accounting Date:05/19/2025

Effective Date	Sale Accounting Date	Sale Item Reference Number
05/19/2025	05/19/2025	18963034

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20255I749365911	2830	PROCESSING FEE, EXCEPT PROV. APPLS.	\$60.00	Mastercard



UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
18/963,034	11/27/2024	2197	728	VANL-100	20	3

22827
DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

CONFIRMATION NO. 8683

CORRECTED FILING RECEIPT



0000000088905525

Date Mailed: 05/20/2025

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)

Amjad Hussain, Newcastle, WA;
Kei Daniel Yasui, Los Angeles, CA;
Alexander Pines, Los Angeles, CA;
Samuel Winthrop Trapkin, Post Falls, ID;
Steven D. Lockshin, Beaverton, OR;
Eugene Michael Farrell, Sammamish, WA;

Applicant(s)

Vanilla Technologies Inc., Bellevue, WA;

Power of Attorney: The patent practitioners associated with Customer Number 22827

Domestic Applications for which benefit is claimed

This appln claims benefit of 63/603,895 11/29/2023

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: 12/06/2024

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/963,034**

Projected Publication Date: Request for Non-Publication Acknowledged

Non-Publication Request: Yes

Early Publication Request: No

**** SMALL ENTITY ****

Title

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Preliminary Class

718

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

GRANTED

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).

SelectUSA

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.

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 dependency.**

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

22827 7590 05/02/2025

DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

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.

Lisa E. Glass

(Typed or printed name)

/Lisa E. Glass/

(Signature)

June 5, 2025

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/963,034	11/27/2024	Amjad Hussain	VANL-100	8683

TITLE OF INVENTION: EVENT-BASED RESOURCE ALLOCATION SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$516	\$0.00	\$0.00	\$516	08/04/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
KESSLER, GREGORY AARON	2197	718-104000

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

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

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

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

1 Dority & Manning, P.A.

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

2

3

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

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

(A) NAME OF ASSIGNEE

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

Vanilla Technologies Inc.

Bellevue, Washington, USA

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. 04-1403

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 /Lawrence Nwaesei/

Date June 5, 2025

Typed or printed name Lawrence Nwaesei

Registration No. L0946



UNITED STATES
PATENT AND TRADEMARK OFFICE

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

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/963,034

RECEIPT DATE / TIME
06/05/2025 04:37:46 PM Z ET

ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

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

PATENT # -

CONFIRMATION # 8683

FILED BY Lisa Glass

PATENT CENTER # 70753749

FILING DATE 11/27/2024

CUSTOMER # 22827

FIRST NAMED
INVENTOR Amjad Hussain

CORRESPONDENCE
ADDRESS -

AUTHORIZED BY Lawrence Nwaesei

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VANL-100_AcquiescenceStatement_05JUN2025.pdf	1	Miscellaneous Incoming Letter	88 KB
VANL-100_IssueFee_05JUN2025.pdf	1	Issue Fee Payment (PTO-85B)	1369 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
VANL-100_AcquiescenceStatement_05JUN2025.pdf	E58D677213F36669FB262B517D6454F40F5A8652992AF7C3EC 039A68C0A87E153CCAABD9DA438EB213C61242DBC98B8FB7 64D72BA9C7F24A7A9B66A5CCBFE0A3

VANL-
100_IssueFee_05JUN2025.pdf

168504231323484DBB89515CF802DAA584C29B79740EF9BE8
F9C16531D16E180A511639FB75FA6040867F7CF096550700DF
E82A9BB4DFD6E6D0879B431611FDD

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

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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.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1 st Named Inventor: Anjad Hussain	)	Examiner: Gregory Aaron Kessler
	)	
Serial Number: 18/963,034	)	Group Art Unit: 2197
	)	
Filed: November 27, 2024	)	Customer Number: 22827
	)	
Confirmation No.: 8683	)	Deposit Account: 04-1403
	)	
Title: Event-Based Resource Allocation System	)	Docket Number: VANL-100
	)	

RESPONSE TO NOTICE OF ALLOWANCE

Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

Dear Commissioner:

Applicant does not necessarily acquiesce to the relevance of any prior art reference to the present claims as asserted by the Examiner in the record. Applicant respectfully submits that the entire invention is not taught, suggested, or disclosed by the art of record, either alone or in combination.

Respectfully submitted,
DORITY & MANNING, P.A.

June 5, 2025

Date

/Lawrence Nwaesei/

Lawrence Nwaesei
Registration Number: L0946

P.O. Box 1449
Greenville, SC 29602

Telephone: (864) 271-1592
Facsimile: (864) 233-7342



UNITED STATES
PATENT AND TRADEMARK OFFICE

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

ELECTRONIC PAYMENT RECEIPT

APPLICATION #
18/963,034

RECEIPT DATE / TIME
06/05/2025 04:37:46 PM Z ET

ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

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

PATENT # -

CONFIRMATION # 8683

FILED BY Lisa Glass

PATENT CENTER # 70753749

AUTHORIZED BY Lawrence Nwaesei

CUSTOMER # 22827

FILING DATE 11/27/2024

CORRESPONDENCE ADDRESS -

FIRST NAMED INVENTOR Amjad Hussain

Payment Information

PAYMENT METHOD
CARD / 1257

PAYMENT TRANSACTION ID
E202565G38078214

PAYMENT AUTHORIZED BY
Lisa Glass

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2501	UTILITY ISSUE FEE	516.00	1	516.00
TOTAL AMOUNT:				\$516.00

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.

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New International Application Filed with the USPTO as a Receiving Office

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UNITED STATES PATENT AND TRADEMARK OFFICE

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

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/963,034	07/08/2025	12353917	VANL-100	8683

22827 7590 06/25/2025

DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

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):

Amjad Hussain, Newcastle, WA;
Kei Daniel Yasui, Los Angeles, CA;
Alexander Pines, Los Angeles, CA;
Samuel Winthrop Trapkin, Post Falls, ID;
Steven D. Lockshin, Beaverton, OR;

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

Vanilla Technologies Inc., Bellevue, WA;

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).



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

18/963,034

11/27/2024

Amjad Hussain

VANL-100

8683

22827 7590 07/08/2025
DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

EXAMINER

KESSLER, GREGORY AARON

ART UNIT

PAPER NUMBER

2197

NOTIFICATION DATE

DELIVERY MODE

07/08/2025

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):

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APPLICATION NO.	ISSUE DATE	PATENT NO.
18/963,034	08-Jul-2025	12353917

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POST OFFICE BOX 1449
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EGRANT NOTIFICATION

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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/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	18/963,034
Filing Date	11/27/2024
First Named Inventor	Amjad Hussain
Title	EVENT-BASED RESOURCE ALLOCATION SYSTEM
Art Unit	2197
Examiner Name	GREGORY AARON KESSLER
Attorney Docket Number	VANL-100

SIGNATURE of Applicant or Patent Practitioner

Signature	/Zuha S. Irfan/	Date (Optional)	October 9, 2025
Name	Zuha S. Irfan	Registration Number	72,387
Title (if Applicant is a juristic entity)	Attorney of Record		
Applicant Name (if Applicant is a juristic entity)	Vanilla Technologies Inc.		

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 1 forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0035. Public burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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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

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☒ 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:

130085

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

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Telephone

Email

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

Vanilla Technologies Inc.

- ☐ 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

Karen Nachbar

Date (Optional)

10/9/2025

Name

Karen Nachbar

Title

Chief Legal Officer

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.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #
18/963,034

RECEIPT DATE / TIME
10/09/2025 05:58:39 PM Z ET

ATTORNEY DOCKET #
VANL-100

Title of Invention

EVENT-BASED RESOURCE ALLOCATION SYSTEM

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	12353917
CONFIRMATION #	8683	FILED BY	Zuha Irfan
PATENT CENTER #	72650343	FILING DATE	11/27/2024
CUSTOMER #	22827	FIRST NAMED INVENTOR	Amjad Hussain
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Zuha Irfan

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
VANL-100 POA.pdf	2	Power of Attorney	436 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
VANL-100 POA.pdf	014BE6C06FC7A21162FCAA0E8106DF219F77FC4EB23E25341 5F5BB178A5107AA0FF13CFFF88C428477C4B9716A334F23629 AD024FDE19DF9133E5FBF03DE1902

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.

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 NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/963,034	11/27/2024	Amjad Hussain	VANL-100

CONFIRMATION NO. 8683

22827
DORITY & MANNING, P.A.
POST OFFICE BOX 1449
GREENVILLE, SC 29602-1449

POWER OF ATTORNEY NOTICE



OC000000096287319

Date Mailed: 10/22/2025

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/09/2025.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

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.

/mtekle michael/



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/963,034	11/27/2024	Amjad Hussain	VANL-100

CONFIRMATION NO. 8683

POA ACCEPTANCE LETTER



OC00000096287338

130085

Lee Sullivan Shea & Smith LLP
656 W. Randolph St.
Floor 5W
Chicago, IL 60661

Date Mailed: 10/22/2025

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 10/09/2025.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

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.

/mtklemichael/