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(54) Title: REAL PROPERTY INFORMATION MANAGEMENT, RETENTION AND TRANSFERRAL SYSTEM AND METHODS FOR USING SAME

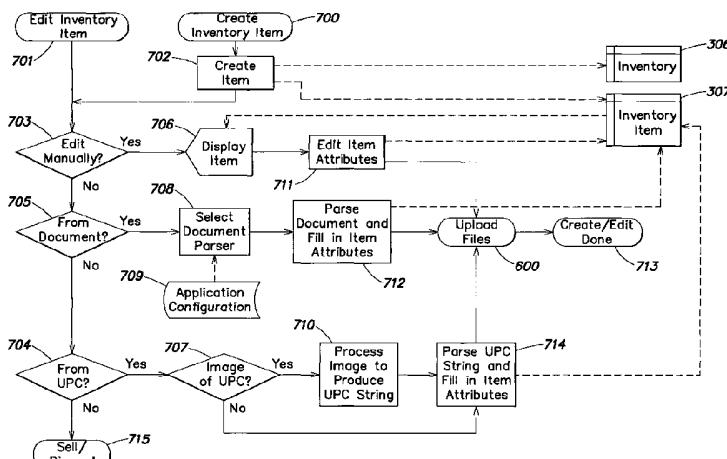


FIG. 7A

(57) Abstract: The present invention is in the field of computer systems and processes for managing real and personal property. One aspect of the invention is directed to capturing history of a (real) property, which may include a description of the property, the personal property located on the real property, the projects and maintenance performed or to be performed on the property and their impact on the owner's tax basis in the property. Another aspect of invention allows for sharing of this history with an online community and for transferring the history (or portions thereof) on sale to a buyer.

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REAL PROPERTY INFORMATION MANAGEMENT, RETENTION AND
TRANSFERAL SYSTEM AND METHODS FOR USING SAME

Field of the Invention

5 This invention relates to documenting, managing, searching, and presenting real and related personal property information in an on-line homeowner social network, including ultimately transferring this information from an owner-seller to a buyer.

Background

10 Any discussion of the prior art throughout the specification should in no way be considered as an admission that such prior art is widely known or forms part of common general knowledge in the field.

The maintenance of, and transactions in, real estate are mostly conducted by archaic, inefficient means, namely by person-to-person communications between the owner and the service providers (e.g., tradespeople) or a prospective buyer or a broker.

15 There are very few, if any, homes that have a complete history maintained for them over a significant period of time because it is a manual, paper-intensive process. Most homeowners are not great at keeping records, let alone doing so over long periods of time.

20 Yet, homeownership for many people represents the single largest, most important investment they will make in their lives. Quite importantly, when a property owner sells its property, good records of work done on the property can have considerable value. Such records may influence how much a buyer is willing to pay for the property.

25 Somewhat surprisingly, someone searching for a home to purchase has access only to minimal information available about the prospective homes for sale and even less for homes not currently for sale. Once someone purchases a home, the purchaser (except in the case of a new home or in a few exceptional cases) assumes ownership of the home with incomplete information about the home's systems, inventory and the history of services and projects executed on the home.

30 Accordingly, a need exists for a system that facilitates the input and accumulation of information pertaining to real property, updatable by the owner, under the secure control of the owner and preferably transferable to a potential or actual buyer.

1a

Technology has heretofore been employed only to a quite limited extent to aid prospective or actual home buyers or homeowners. In general, current computing systems supporting real property management are focused on facilitating advertisement and sale of property. The property owner can often post property for sale on-line on a multi-list service. Buyers can search for for-sale properties meeting their criteria.

Some computerized systems can also be used for predicting property values. These computing systems attempt to assess the historical buy/sell information about a home compared to like homes in its area and estimate a present-dollar value for a home. The estimates based on home improvements are not specific to the actual work performed or to the target market of the 5 home nor are the definitions of the home and actual and/or potential improvements transferable to a new buyer of the home. Such numbers cannot provide basis-adjustment data.

Other real estate-related software/computer systems have been developed, such as those incorporating special algorithms for disclosing detrimental conditions affecting property; allowing for managing and preparing documentation for real estate transactions; those for coordinating real 10 estate sales and rentals; etc.

Potential home buyers have many computing systems available to them to research available homes. However, these systems provide few, if any, historical or ancillary details that would aid the potential home buyer in his or her decision-making process. A new tool emerging for homeowners and buyers attempts to facilitate home price comparisons, but price fairness is 15 only one of many factors relevant to a purchase decision.

Some computing systems help homeowners to connect with service providers. These various computing systems include those that provide for posting projects to an open market of providers (e.g., on a web site) who connect with the homeowner if the project interests them. Some also provide tools for the homeowner to review providers by viewing the reviews of other 20 homeowners. These computing systems, however, don't provide a complete, or at least somewhat comprehensive, cohesive, historical view of a home's projects and the results and details of those projects, including who executed the project, which can be shared with other homeowners and/or passed on to subsequent owners of the home.

There are other computing systems supporting documentation of a home's inventory. 25 These computing systems, so far as we are aware, do not provide for the transferal of this information to a new owner; neither do they provide mechanisms to tie into the point-of-sale of goods bought and sold either on-line or otherwise.

Current computing systems thus do not provide a mechanism or methodology for documenting, retaining, presenting and managing real property, its projects, and its contents as an 30 asset which ultimately may be conveyed from the owner of a home to the next purchaser of that home.

Summary

To address the foregoing needs and deficiencies of prior art, there is described herein a system, method and apparatus for documenting, managing, searching, and presenting real (and related personal) property information in an on-line network, supporting ultimate transfer of this information from an owner-seller to a buyer.

One aspect of the present invention is a method, computer system and computer-implemented procedure and data structures enabling a property owner or a designee of a property owner (e.g., renter or a lessee), herein referred to as "user", to describe one or more properties in a database. The database may be private or public, network or stand-alone, open or controlled access. Selected information may be locked down for only authorized access even if the database is on a public server. The database may be accessed via, or published on, a public online forum, for example, the worldwide web. A related aspect of the invention is a method, computer system and computer-implemented procedure and data structures enabling the user to identify which aspects of their home description are to remain private and which are to be public. Another related aspect of the invention is a method, computer system and computer-implemented procedure and data structures enabling an interested party to find real properties stored in the public forum and to display information about those real properties.

Another aspect of the invention is the data structures and computer-implemented procedures providing the ability to define one's belongings, or inventory, in the home or otherwise. A related aspect of the invention is computer-implemented procedures to support either manual entry of inventory item information through interaction with the user interface or partially or completely populated item information and downloading such information obtained by decoding a universal product code (UPC) associated with the item.

One aspect of the invention is a system for maintaining property information, comprising (a) one or more databases configured to receive and store property information; (b) a server operatively connected to one or more databases for receiving data to be written to the database and for delivering to a user data from said database; (c) a communication system operatively connecting one or more remote users to the server for writing to or reading from the database; (d) a property ownership locking mechanism limiting control of certain property information to a current record owner of said property; and (d) a property ownership transfer mechanism operable to change the current record owner of a property from a first user to a second user.

In one embodiment, property may be real property and/or personal property related to the real property. Property information may include property history data. Property history

information may include, for example, one or more of purchase price, tax assessments, details of improvements made (e.g., plans, cost, contractors), equipment purchase details (e.g., appliances), tradespeople who provided services, etc. A communication system may include one or more communication devices, such as, for example, modems, network cards, faxes, phones and

5 combinations thereof.

In some example embodiments for practicing at least some aspects of the invention, one or more databases are provided for storing property history information comprising real property information and information relating to one or more projects executed on the real property. And in some example embodiments, one or more databases may also be provided for storing information

10 relating to one or more projects not yet executed on the real property.

In one aspect, the system may further include a subsystem comprising, for example, a server and a communication device which captures (preferably automatically, from time to time) at least some of the property history information directly or indirectly from publicly accessible data.

In one aspect of the invention, the property ownership locking mechanism is adapted to be

15 operated by the current record owner of the property to establish user access controls to limit access to selected property information to specific users or groups of users.

In another aspect of the invention, the property ownership locking mechanism is further adapted to be operated by a current record owner of the property to establish user access controls to limit the type of access selected users or groups of users have to selected property information.

20 In one aspect, the invention relates to a method comprising acts of capturing property information on one or more storage devices operably connected to a computer system, where the property information is or may be related to multiple properties of (e.g.,) multiple users, and the capturing of the information includes establishing access controls configurable by a record owner of a property to control access to the information by users of the computer system; a record owner of property configuring access to the information; and transferring record ownership of the

25 property from a first user to a second user. Such a computer system may, without limitation, include two or more users at a same or in different locations, using computing devices such as personal computers, cellular phones, personal digital assistants or the like in direct or indirect communication with each other and/or one or more servers via one or more communications networks. The one or more storage devices may be at a single location or multiple locations, as

30 well.

In one aspect of the invention, capturing property information includes capturing information about a property at different times over a span of time. In another aspect of the

invention, capturing property information includes receiving input from the record owner. Yet, in another aspect of the invention, capturing property information includes obtaining at least some of the property information from publicly accessible records.

5 In one aspect of the invention, transferring record ownership of the property from a first user to a second user comprises changing record owner information pertaining to the property in a database. In another aspect of the invention, transferring record ownership of the property does not transfer ownership of information marked as private.

10 In one aspect of the invention, prior to transferring record ownership of the property from a first user to a second user, information is removed from the property information by the record owner, to maintain privacy of the removed information. An embodiment of a method according to the invention may include a step of archiving the property information so that the removed information remains accessible to the previous record owner of the property.

15 One aspect of the invention is a method for maintaining property information, comprising steps of operating a computer system to create a first data structure in a data store, in some non-limiting examples referred to as a Property Table, containing information comprising an identifier of a physical location of a real property component of the property and a description of the real property; operating the same or a different computer system to create a second data structure in the same or a different data store, in some non-limiting examples referred to as a Property Area Table, which contains information comprising an identifier of a structure and/or a layout of the structure 20 at said physical location; and operating the same or a different computer system to create a third data structure in the same or a different data store, in some non-limiting examples referred to as an Inventory Table, containing information comprising an identification of one or more items of personal property located at the real property, and optionally, in a computer system, identifying a first user and creating an association between the information in the first, second and third data 25 structures with the first user, the association establishing the first user as the owner and controller of access to the information; and, also, optionally, in a computer system, identifying a second user and changing the association from the first user to the second user to change the identity of the owner and controller of the information. The first, second and third data structures may be distinct data structures or two or more of the first, second and third data structures may be portions of a 30 common data structure, such as separate fields in a common table or file.

In one aspect of the invention, the method may further comprise a step of, optionally, operating a computer to create a further data structure accessible to the first user and to store therein a copy of the information in at least one of the first, second and third data structures prior to changing the association. The first, second, third and any further data structures may be stored

on one or more computer-accessible storage devices and are configured to form a history of the real property.

5 In another aspect of the invention, the method may, optionally, further comprise steps of identifying a first user and creating an association between the information in the first, second and third data structures with the first user, the association establishing the first user as the owner and controller of access to the information, in a computer system; and enabling the first user to create a trusted community of users who are granted access to at least portions of the information in at least one of the first, second and third data structures, according to access authorizations defined and administered by the first user, in a computer system.

10 In another aspect of the invention, the method, optionally, further comprises steps of providing a web site at which a user may interact with the data structures, and via which a user may enter a project specification accessible by service providers, to solicit bids from service providers.

15 In one aspect of the invention, the method further includes operating a computer system to create a fourth data structure containing a collection of information pertaining to one or more projects executed on the property.

In one aspect of the invention the data structures are stored on one or more computer-accessible storage devices and are configured to form a history of the real property.

20 Another embodiment of a system for practicing some aspects of the invention involves to a computer-implemented system for property owners and property-related service providers to interact, comprising steps of a first computer-interactable data structure configured and arranged for receiving from one or more service providers indications of their capabilities or types of projects for which the provider is interested in being hired; and a second computer-interactable data structure configured and arranged for receiving from the service provider identifications of 25 one or more associated service providers proposed to operate on behalf of the service provider.

30 The system may, optionally, include means for serving up to a user a web page containing at least some of the service provider information and a link to a home page for the service provider. The system may, optionally, include means for serving up to a service provider user an interface for entering into the first data structure indicia of the types of projects for which the provider is interested in being hired and means for inserting corresponding text on the home page of the provider. The service provider may fill out a table, for example a table on a web page, to populate the database so that the provider's information could be linked to provider's home page.

The system may, optionally, include a project generation module which receives from a user, via a computer-implemented user interface on a web page, a project identifier and project-related information of the user, and stores the project identifier and project-related information of the user in a data store. The project-related 5 information may include data of various types including text, audio and video data and links to other data, which may be contained in one or more computer-readable files.

In one aspect of the invention, the project-related information may be input by the user at various times, thereby allowing the history of a project to be recorded.

In another aspect of the invention, the system may further include means for 10 receiving project information from a service provider in electronic form to facilitate archiving the information.

According to an aspect of the present invention there is provided a system for maintaining property information, the system comprising:

- a. one or more databases configured to receive and store property 15 information of a plurality of users, the property information comprising property history information for a first property owned by a current record owner, the property history information pertaining to one or more projects performed on the first property;
- b. a server operatively connected to said one or more databases for receiving data to be written to the one or more databases and for delivering to a user 20 data from said one or more databases;
- c. a communication system operatively connecting one or more remote users to said server for writing to and/or reading from the one or more databases;
- d. a property ownership locking mechanism limiting control of the property 25 history information for the first property to the current record owner of said first property, the property ownership locking mechanism being configured to allow the current record owner to designate a portion of the property history information for the first property as private; and
- e. a property ownership transfer mechanism operable to change the current record owner of the first property from a first user to a second user, the property 30 ownership transfer mechanism being further configured to, upon the change of current record owner of the first property from the first user to the second user, transfer control

of a non-private portion of the property history information for the first property to the second user, and retain under control of the first user the portion of the property history information for the first property designated as private.

According to a further aspect of the present invention there is provided a method
5 comprising acts of:

- a. capturing property information on one or more storage devices operably connected to a computer system, said property information relating to multiple properties of multiple users, the property information comprising property history information for a first property owned by a current record owner, the property history information pertaining to one or more projects performed on the first property, wherein capturing the property history information includes establishing access controls configurable by the current record owner to control access to the property history information by users of the computer system;
- b. allowing the current record owner to configure access to said property history information at least in part by designating a portion of the property history information for the first property as private;
- c. transferring record ownership of said first property from a first user to a second user; and
- d. upon transfer of the record ownership of the first property from the first user to the second user, transferring control of a non-private portion of the property history information for the first property to the second user, and retaining under control of the first user the portion of the property history information for the first property designated as private.

According to a further aspect of the present invention there is provided a method
25 for maintaining property information, comprising:

- a. operating a computer system to create a first data structure in a data store, containing information comprising an identifier of a physical location of a real property component of said property and a description of said real property;
- b. operating a computer system to create a second data structure in a data store which contains information comprising an identifier of a structure and a layout of the structure at said physical location; and

c. operating a computer system to create a third data structure containing information comprising an identification of one or more items of personal property located at the real property.

According to a further aspect of the present invention there is provided a

5 computer-implemented system for property owners and property-related service providers to interact, comprising:

a. a first computer-interactable data structure configured and arranged for receiving from one or more service providers indications of their capabilities or types of projects for which the provider is interested in being hired; and

10 b. a second computer-interactable data structure configured and arranged for receiving from a said service provider identifications of one or more associated service providers proposed to operate on behalf of said service provider.

According to a further aspect of the present invention there is provided a method for managing property information comprising operating a computer system to create a

15 data structure in a data store containing information comprising a supply inventory.

It is an object of the present invention to overcome or ameliorate at least one of the disadvantages of the prior art, or to provide a useful alternative.

Unless the context clearly requires otherwise, throughout the description and the claims, the words "comprise", "comprising", and the like are to be construed in an

20 inclusive sense as opposed to an exclusive or exhaustive sense; that is to say, in the sense of "including, but not limited to".

In another aspect of the invention, the system may further include a file import module which is usable to import computer files and associate them with a project identifier as project-related information.

25 Other aspects of the invention will become apparent from the discussion which follows.

Brief Description of Drawings

The foregoing aspects and many of the attendant advantages of this invention

will become more readily appreciated as the same becomes better understood by reference to the following detailed description, when taken in conjunction with the accompanying drawings, wherein:

5 FIG. 1 is a block diagram representation of an exemplary system for implementing a Home Management System as discussed herein.

FIG. 2 is a block diagram representation of an example of the subsystems of the Home Management System.

FIG. 3 is a block diagram which illustrates schematically an example of a relational database design for use in the system of FIGs 1 and 2.

10 FIGS. 4A-B are flowcharts defining an example of processing for creation of a property in the example system and then viewing the property after it is created.

FIGS. 5A-E are flowcharts defining an example of the processing for setup and management of a trusted community of users for a particular user.

FIGS. 6A-B are flowcharts defining an example of the processing for the upload of files pertaining to a particular property and assignment of the uploaded files to various rooms and other areas of the property.

FIGS. 6C is a schematic illustration of a user interface design screen providing an example 5 for use in assigning uploaded files to various rooms and other areas of a property.

FIGS. 7A-D are flowcharts defining an example of processing for creation, editing, buying, selling and discarding of inventory items.

FIG. 8A is a flowchart defining an example of processing for submission of home project and editing thereof.

10 FIG. 8B is a flowchart defining an example of processing for submitting a rating of a service provider.

FIG. 9 is a flowchart defining an example of processing for creation and management of folders of files in the system.

15 FIG. 10 is a flowchart defining an example of processing for users becoming a recognized member of the system.

FIGS. 11A-C are flowcharts defining an example of processing for creation of homes in the system from existing county records.

FIGS. 12A-B are flowcharts defining an example of processing for listing a home for sale and transferring the home's records in the system to a new owner.

20 FIGS. 13A-B are flowcharts defining an example of processing for generating a property report.

14A-14C together comprise flowcharts defining an example of processing for determining the measure of economic benefit to users.

FIGS. 15A-B are deployment diagrams which illustrate an example of various approaches 25 for deploying a system as discussed herein.

FIG. 16 is an illustration of one example of an initial user system interface through a World Wide Web homepage.

FIGS. 17A-C are illustrations of one example of real property search interface.

FIG. 18 is an illustration of one example of a representation of property search results.

FIG. 19 is an illustration of one example of report listing all properties owned or previously owner by the user.

FIGS. 20A-D are illustrations of one example of property information entry supported by
5 the system.

FIGS. 21A-D are illustrations of one example of an interface for entry of property data.

FIG. 22 is an illustration of one example of project table interface.

FIGS. 23A-C are illustrations of one example of an interface for entry of project data.

FIG. 24 is an illustration of one example of inventory table interface.

10 FIGS. 25A-B are illustrations of one example of an interface for entry of inventory data.

FIGS. 26A-B are illustrations of one example of an interface for entry of property lay out data.

FIGS. 27A-C are illustrations of one example of an interface for entry of property attributes data.

15 **Detailed Description**

Descriptions in certain embodiments for practicing aspects of the invention will be discussed below. The examples should not be considered limiting, but are intended to illustrate certain inventive aspects. It will be useful to appreciate, in reading the detailed description, that certain words or terms have defined meanings unless another meaning is apparent.

20 Except as appears otherwise from the context, a property "owner" is a person or entity who creates and controls a property record in a system according to method taught herein, whether or not owing legal title.

25 "Computer" or "computer system" as used herein shall mean one or more computing devices, regardless of the number and location of processing elements. For example and without limitation, the term computer or computer system includes personal computers, computer networks, personal digital assistants (PDAs), mobile phones (whether smart phones, PDA phones or regular digital cell phones), web TV, portable e-mail devices, and so forth. A computer system may provide access to two or more users at different computers in a same or different locations, in

direct or indirect contact with a server(s) and/or each other via a network (for example, the global internet and its World Wide Web).

“User computer” as used herein shall mean a computer that is employed by a user to perform any function using the property management software.

5 “Database” as used herein indicates any organized data structure or structures used for storing and retrieving information having a predefined meaning. Without limitation, a database may be a flat file structure, a relational structure, or any other form of information storage.

10 “Property Information” may include, but it is not limited to information about real property and personal property associated with real property, for example, address, home type, price, number of bedrooms or bathrooms, lot size, architectural style, square footage, age of home, type of air conditioning, closets, driveways, fireplace, garden, plumbing, roof, exterior, floor, heat, parking, pool, sewer, personal property inventory and other information.

15 “Property History Data” may include, but it is not limited to sales or rental price information from previous transactions, the timing and type and costs of home improvement projects executed on the property, previous damage from Force Majeure to the property and information for home improvement projects marked-up, but not yet executed on the property.

20 “Property ownership locking mechanism” may include, but it is not limited to, a set of data attributes and/or software protocol limiting access to property history data to the record owner and others, whose access is defined by record owner. As used herein, “property ownership locking mechanism” may also include a server, a set of computer instructions and one or more communication devices, wherein the set of computer instructions restricts communication of property history data to various categories of users.

25 In one aspect, the invention includes a system, a method and an apparatus for defining, managing and transferring, through either sale or lease, one or more properties, particularly real property and related personal property. The invention also relates to systems for maintaining, trading, selling, and/or leasing property. In one embodiment, a computer network system and software structure and information processing method are provided that enable a plurality of users to maintain, trade, sell, or lease a property or properties and/or transfer the history of a property or properties.

30 Referring to FIG. 1, according to one example embodiment implementing certain aspects of the invention, a system comprises three components: User Controls 100, Home Management System 101 and External Support Services 102.

The User Controls component 100 represents a mechanism by means of which someone or something may be operatively connected to the Home Management System component 101 to command the application to perform certain tasks. The User Controls component 100 could be operating on a personal computer or a server using a Windows, Linux, Mac OS, UNIX, or other 5 operating system, or a web-enabled cell phone, wireless communication device or other personal digital assistant, and/or any other computer. The User Controls component 100 may be operatively connected to the internet and/or some other private and/or public network(s) via one or more communication devices.

The Home Management System component 101 represents the component that performs 10 the functions supporting the property management functions described herein. The External Support Services component 102 represents any system providing general functionality used by the Home Management System 101 to help realize the property management functions described herein. In one example, the External Support Services component 102 could be a web site supporting integration of scripting language (e.g., Google Maps) directly on the page, a system 15 providing function calls integrated into the Home Application System component 101 either on a page or embedded in the server application, or a combination of same.

In some embodiments, the Home Management System component 101 contains one or 20 more computers, servers and/or one or more storage devices containing one or more databases configured to receive and store property information, a communication system operatively connected to the internet and/or some other private and/or public network(s) and, thus, optionally, operatively connected to one or more remote users, containing one or more databases of one or 25 more of registered owners, registered properties, improvement or repair projects executed and/or to be executed on registered properties, personal property located on registered properties, preferred or registered vendors and one or more service providers such as general contractors, repairmen, plumbers, electricians, security companies, painters, gardeners, mortgage brokers, appliances dealers and installers, etc, and one or more communication device(s) enabling system access through the world wide web and/or some other private and/or public network(s) and system output through world wide web or some other private and/or public network(s), e-mail, telephone, fax systems and/or any other means of communication.

30 In some embodiments, the Home Management System component 101 may be further decomposed in FIG. 2 into its logical subsystems: Member subsystem 202, Property subsystem 203, Inventory subsystem 204, Project subsystem 205, Providers subsystem 206, Files subsystem 207 and Database subsystem 208. Each of the subsystems is shown with its dependencies on other subsystems identified by the arrow pointing at the subsystem providing services to another 35 subsystem; for example, Property subsystem 203 depends on Member subsystem 202. Member

subsystem 202 is the set of computer-implemented procedures, data structures and user interfaces providing the functionality to create, edit, manage and present user information. Property subsystem 203 is the set of computer-implemented procedures, data structures and user interfaces providing the functionality to create, edit, manage, transfer and present real property (for example, 5 home) and related personal property information. Property subsystem 203 provides for capturing information about a property at different instants over a span of time. Inventory subsystem 204 is the set of computer-implemented procedures, data structures and user interfaces providing the functionality to create, edit, buy, sell, discard, manage, transfer and present information on user's personal property. Project subsystem 205 is the set of computer-implemented procedures, data 10 structures and user interfaces providing the functionality to create, edit, submit for bid, transfer, manage and present home project and maintenance information. Provider subsystem 206 is the set of computer-implemented procedures, data structures and user interfaces providing the functionality to create, edit, manage and present service provider information, including providing reviews of various service providers. Files subsystem 207 is the set of computer-implemented 15 procedures, data structures and user interfaces providing the functionality to upload, reference, edit, share, and organize files for the other subsystems on the target operating system file system. Database subsystem 208 is the set of computer-implemented procedures and data structures providing the functionality to create, edit, delete and update data to be maintained persistently for the other subsystems which could be realized with relational database technology (for example, 20 Oracle, SQL Server, DB2, MySQL, and the like), object-oriented database technology (for example, ObjectStore, Objectivity, Versant, or the like), text-based technology (XML, spreadsheets, and the like) or any other mechanism for storing logically organized information in either binary or textual form.

One example of Database subsystem 208 is further expanded in FIG. 3. In this diagram, 25 primary data containers are identified with their referential relationships represented by the lines between containers; a container may contain referential attributes to one or more other containers (without intending any loss of generality, the term "Table" will be used herein synonymously with "container" to refer to an appropriate data structure). For example, Property Table 305 has a referential relationship with User Table 303 and the circle end of the line on Property Table 305 30 denotes that Property Table 305 will contain a referential attribute that identifies which User Table 303 is associated with a Property Table 305.

According to one embodiment, the system may provide for different categories of users in User Table 303, the categories having different privileges, for example, access and output privileges defined by the system owner. For example, the system may differentiate between guests 35 and secured or authenticated users, and sub-differentiate between secured users using property

ownership locking mechanism. In some embodiments, for example, the system administrator may grant only viewing, or limited viewing, privileges to guest users and various limited privileges to secured users who do not have any property in Property Table 305, such as, for example, service providers and prospective home buyers, with authenticator sellers having other privileges.

5 According to some embodiments, as in FIG. 3, Property Table 305 is at the core of Database subsystem 208. Property Table 305 contains all attributes relevant to a particular physical property (the "Property"). Associated with Property Table 305 is a User Table 303 that identifies the person or entity claiming or just documenting a property listed in Property Table 305. Also associated with a Property in Table 305 is the Inventory Table 306 identified as being located 10 with the Property Table 305, either physically located on the Property listed in Table 305 or organized logically with the Property listed in Table 305. Property Table 305 also has associated with it the layout of the rooms and various other areas on the underlying property record as depicted with the relationship between Property Table 305 and Property Area Table 308; such that, a Property can have zero or more rooms and/or zero or more other areas. Property Area Table 308 15 represents a generalization of all rooms and other areas of the Property; where, room could be a kitchen, dining room, bedroom, bathroom, living room, or whatever other room typically makes up a Property while also providing for a room not pre-defined, i.e., "other," which could be named whatever the user desires to name it, for example, other area could be a front yard, back yard, patio, deck, garden, or whatever other area either in the home or on the Property that the user 20 desires to describe. While providing for a non pre-defined area, "other" which could be named whatever the user desires to name it. Property Table 305 also has associated with it a File List 314 which contains all Files 304 uploaded to a property record or referenced by a Property Table 305. Such files could be images, video, audio, documents or any other electronic form of supplemental 25 information about a Property. Property Area Table 308 also has associated with it a File List 314 so as to provide for organizing Files 304 with the relevant room or other area. Property Table 305 also is associated with Tax Assessments Table 318 which provides for a historical rundown of all the tax assessments provided by a county for a Property. Property Table 305 also is associated with Property Transfer Table 301 which provides for a historical rundown of all the sales transactions 30 conducted on a Property. And finally, Property Table 305 has associated with it in Projects Table 310 information on projects executed on a Property.

According to one aspect of the invention, Database subsystem 208 initially may be populated using a Populator subsystem (unmarked) which captures the property history information directly or indirectly from publicly accessible data. Capturing directly or indirectly includes, but is not limited to, receiving information from websites, such as county websites, or 35 electronic feeds in either electronic form that can be imported into the system according to an

algorithm, or in a form of a printout. As used herein, publicly accessible data includes public and private records accessible to the system such as, for example, freely accessible records and records accessible on a fee-for-service or subscription basis. Alternatively, or before or after capturing the property history information directly or indirectly from publicly accessible data, Database system 5 208 may be populated by the record owner, or a user whom the record owner delegates the authorization to update property information. For example, such a delegate might be a service provider who executed a project on a property; that person would enter information about one or more properties – e.g., at different times over a span of time.

In one type of embodiment, as exemplified in FIG. 3, User Table 303 as previously 10 mentioned is associated with a Property Table 305 and may be associated with zero or more Properties. “Users,” identified in User Table 303, could include, but are not limited to, registered owners, preferred vendors and registered service providers such as general contractors, repairmen, plumbers, electricians, security, painters, gardeners, mortgage brokers, real estate brokers, appliances dealers, installers, etc. A user may also have zero or more accounts with other 15 marketplaces, both electronic and in-person, and they may desire to share information between those markets and this system in some automated or semi-automated fashion. These accounts are represented by the relationship between User Table 303 and External Market Info Table 317. A user may also set up a Table (e.g., the Trusted Community Table 315) defining a trusted 20 community of people with whom they desire to share in greater detail the specifics of their Property using property a ownership locking mechanism.. The trusted community is represented by the associations between User Table 303, Trusted Community Table 315, and Trusted Member Table 316. A user could have any number of trusted communities with any number of members in 25 each trusted community. A member would also be a user of the system, but doesn't necessarily have to have a member's property defined in the system. A user, for example, could have made a plurality of referrals to providers; as recorded in Provider Referrals Table 319, wherein the user creates Organizations Table 302 to be added to the system. The system may email (or otherwise send, such as by a short messaging servie (SMS) text message) an activation request to identify the user as the referrer. A user also may be, or be affiliated with, a service provider. This relationship is captured by the association between User Table 303 and Organization Table 302. A particular 30 user could be both affiliated with a service provider and be a normal user defining a Property. This association could also be constrained such that a user affiliated with a service provider may not be a normal user defining a Property. Finally, each User Table 303 could have captured for it a Revenue Log 320 which identifies the activity on the system attributed to the user's Property. Such activity may directly generate revenue for the system. For example charge may be imposed for 35 requests for aggregated data from the system, the viewing of targeted ads, the viewing of general

ads, the viewing and/or interaction with market surveys, and/or the viewing and/or interaction with any content provided to the system.

In some embodiments, the User Table 303 may contain a flag or other indicator which may be used to provide a signal that allows or requires the taking of the inventory and populating 5 an Inventory Table 306 to record personal property located on a Property listed in Property Table 305. The requirement for an inventory may be linked to, or limited by, the presence of an indicator that the home owner has an insurance policy for an inventory covering destruction or damage of personal property. The system may provide for an automated inventory delivery to an insurance company upon a user's request. The system may, optionally, provide to the user an 10 assessment of the insurance coverage the user currently has compared to the value of the items maintained in the Inventory Table 306.

According to some embodiments exemplified in FIG. 3, the details of a user's personal property are captured in Inventory Items record 307 and Inventory Table 306. Inventory Table 306 provides a list mechanism for a Property Table 305 to capture the set of personal properties 15 associated with a Property. An Inventory Item record 307 is one item in the Inventory Table 306. Each Inventory Item 307 has associated with it a File List 314 which contains all Files 304 uploaded to an item or referenced by an item. In this context, at least, files could be images, video, audio, documents or any other electronic form of supplemental information about an item.

The User Table 303 may contain a flag or other indicator used to signal that periodic and 20 or 'event-triggered' updates to the Inventory Table 306 and Files 304 are required. "Event-triggered" updates, as understood herein, include, but are not limited to, updates after capital improvements, natural disasters, damage done to personal property, or purchase of assets in excess of a threshold amount, for example, \$1000.00.

According to some embodiments, a user may conduct and/or define any number of home 25 projects or maintenance activities. In FIG. 3, Project Table 310 captures the information associated with a home project or maintenance activity and is associated with a particular Property in Property Table 305. A particular project in Project Table 310 may also be conducted on one or more rooms or other areas on the property and this relationship is captured in the association of Project Table 310 with Project Area Table 309 and the association between Project Area Table 309 30 and Project Area Table 308. Project Area Table 309 provides a list mechanism to Project Table 310 for defining the set of Property Areas affected by a particular home project or maintenance activity. Finally, Project Table 310 may also have any number of files uploaded to or referenced by the Project and these files may be organized in any number of Folders 313 as defined in the relationship between Project Table 310 and Folder List 312. In turn, Folder List 312 provides for a

set of Folders 313. Folders 313 contain a File List 314 which in turn contains all the associated Files 304. A particular Project may be performed by zero or more service providers and Provider List 319 provides a list of organizations in Organizations Table 302 that performed or are performing the Project.

5 In some embodiments there may be a plurality of service providers as members in the system. In some embodiments according to FIG. 3, service providers are represented by Organization Table 302. Each Organization Table 302 will have one or more administrative users and any number of affiliated users as defined by the administrative user in User Table 303. An Organization Rating Table 300 may also be provided to store ratings (in one example, ratings by 10 users) of services delivered by organizations. An Organization Rating in Table 300 is provided by a User and could be associated with a Project in Table 310. A User affiliated with an Organization should not be allowed to provide ratings related to that Organization. Finally, an Organization in Table 302 may receive one or more Project leads as submitted by a User based on the Project types in which the Organization has expressed interest. These leads will be captured in Provider Project 15 Table 311, providing a list of all leads received by the Organization.

One aspect of the present invention is the ability for a property owner, manager or renter, herein referred to as "user", to describe one or more properties to be published on a public online forum, for example, at a site on the world-wide web. Prior to publication, a person or entity preferably is required to join the system using a process such as the process defined in FIG. 10. 20 When a user executes step 1001 to "Join", the system creates an entry in User Table 303, or creates a new User Table. If the user is not a service provider, as checked in step 1002, the user is given an opportunity to define his information in step 1003, storing the information in User Table 303. Next, in step 1004, the user, optionally, defines account information for integration with various 25 third-party marketplaces, and the information is stored in External Market Info Table 317. If, in step 1008, the user, optionally, decides to create a trusted community, the processing is continued through step 500 in FIG. 5A to create the community and the processing continues through step 503 in FIG. 5B to add members to the community. Editing user and provider information is provided through steps 1013 and 1014. Step 1015 enables a user to add members to an existing 30 community and step 1010 checks to only initiate the activation process in step 1011 if the user is new. Once complete and activated, the user may begin defining his property or properties.

Other aspects of the invention include a method, computer system and computer-implemented procedure and data structures providing the ability for a user to define a trusted 35 community of people who are to be informed once the user publishes a property and who may subsequently view all or limited details of the property. The level of viewing privileges is set by the property owner using property ownership locking mechanism. On publishing a property, all

participants in the public forum, trusted or not, can view the property, but only on the basis defined by the owner of the property, e.g., the owner may limit the information seen by various categories of users using a property ownership locking mechanism.

According to some embodiments for practicing aspects of the invention, the system may 5 provide a network-based bulletin board system to exchange information on, for example, property maintenance, improvements, and/or service providers. Such a bulletin board also provides a forum for property owners to ask home improvement questions from service providers. As defined in the “join” process exemplified above, a user may define one or more Trusted Communities in Table 315. One example of the process to create and add members to Trusted Communities Table 315 is 10 defined in FIG. 5A and FIG. 5B. The Trusted Community creation process starts at entry point 500. A Trusted Community data record is created in step 501, and a member is added in process 502. Process 502, in turn, is shown in greater detail in FIG. 5B, wherein members are added with iteration between steps 504 and 505 until all desired members are added. A user must exist in User 15 Table 303, or be created, to generate a corresponding entry in Trusted Member Table 316. Once all the members have been added, step 506 checks to see if the Trusted Community entry in Table 315 should be turned on, then processing flows through step 508 on FIG. 5C to enable the Trusted Community. Step 522 first checks that the desired Trusted Community is created in the case where enabling is invoked outside of the create case. If the community is created, step 509 either enables or disables the community and then processing passes through step 510 in FIG. 5D to send 20 notification of community status change to all community members. In steps 512 and 513 all the Trusted Members in the Trusted Community are iterated and an email (or other form of electronic message – such alternatives hereafter subsumed into and understood to be intended within the term “email”) is sent to each member using their account data from Table 303 informing them of on or off status, dependent on how the status was changed. Finally in FIG. 5E the process for activating 25 a Trusted Member who is not already an activated User is defined. First, in step 516, the user is presented a pre-defined user name and he must enter their pre-defined password. This password could be the same as his pre-defined user name, the home address or the name of the person who added them as a trusted member, as defined in the notification email, or some other easily passed on password such that the new User can log in. In some embodiments, Trusted Member could be 30 an affiliated user, e.g., property co-owner, family member, co-worker, bank and/or insurance company employee, etc.

In some embodiments for practicing aspects of the invention, the property owner may 35 register property on a system using User Controls 100, as illustrated in a non-limiting example of FIGS. 21A-D. An example of a process of creating a property in the system is defined in FIG. 4A. In step 400, the user creates a Property Table 305 along with a default empty Inventory Table 306,

for example, through an interface illustrated in a non-limiting example of FIG. 21A. The Property Table 305 could have a type of property information, e.g., commercial or residential property, or the property could be land only. Each of these types of property may be further characterized. For example, a residential property could be described in a free-form text style or by selecting from a 5 list such as single-family homes, town homes, condos, apartments, lofts, mobile homes, trailers and so forth, as illustrated in a non-limiting example of FIG. 21C. In step 401, the user is prompted to enter property information, also as illustrated in a non-limiting example of FIG. 21C. This information may include, for example, address, property features, emergency contact information, preferred payment methods, etc. The property owner may provide such information as building 10 details, such as construction date, type of construction materials used, gross area, real estate tax, liens on the property, restrictive property covenants and easements appurtenant to the property, year-to date vacancy rate and whether or not pets and children are allowed for rental properties, as illustrated in a non-limiting example of FIG. 21D. This description could also include the systems in the home; such as, air conditioning, heating, electrical, plumbing, cable, telephone, network, and 15 the like, also as illustrated in a non-limiting example of FIG. 21D. As part of the home description, the user could specify what information from this description should be made public about the home. The description can be provided as user-supplied text, as picks on a menu(s), or as some combination. The system may advantageously provide for password protection of the accounts.

Next, in step 403 a default room/area layout is created, either based on the style of 20 dwelling defined or on a single default layout, preferably then displayed to the user in step 404. The point of the pre-creation of the room/area layout is to simplify the initial creation of a Property Table 305. The user may edit the layout in step 405, deleting/adding rooms, areas and/or floors, while also renaming rooms and/or areas as they desire, as illustrated in a non-limiting example of FIGs. 26A-B and 27A-C. Next the processing advances to step 600 on FIG. 6A for uploading 25 computer files to associate with a Property listed in Property Table 305 and/or Property Areas Table 308, as illustrated in a non-limiting example of FIGs. 21B and 27A. After all desired computer files are uploaded, the user now is requested to assign the uploaded computer files through step 612 of FIG. 6B to the appropriate Property Areas Table 308 or leave associated with 30 the Property Table 305. Once computer file assignment is complete, the Property Table 305 is created and through step 508 the trusted community defined by the user is informed of the property creation.

As illustrated in FIG. 4B, one aspect of the invention is the process by which properties are found and viewed. A user initially contacts the system using a system interface, for example, a homepage on a world wide web, as illustrated in a non-limiting example of FIG. 16. A user, either 35 a member or non-member, may search properties in the Database Table 208 and could do so by

specifying some search criteria in step 421, for example, street, city, state, zip, or some combination of same. One non-limiting example of the initial search interface is illustrated in FIG. 17A. The user may also refine the search by using search attributes of a Property listed in Table 305, for example but not limited to, one or a combination of home style, property feature, lot size, 5 home size, home price, home tax assessment, physical community the property is located in, and/or any other key specifying attributes of a Property listed in Table 305, as illustrated in non limiting examples of FIGs. 17A-C. In one non-limiting example illustrated in FIG. 17C, a user may search and/or refine his search using types of projects, such as, for example, repairs or improvements, executed on the real property. Once the criterion is entered, step 422 executes a 10 search of Property Table 305 (using any appropriate search tool) and creates a list of properties and displays that list in step 424. Step 424 may also pull from External Support Services Table 102 additional content to display with the results, for example but not limited to, a geographical map with some or all results pinpointed on the map, gross potential and/or market potential of the property, as illustrated in a non-limiting example of FIG. 18. By way of non-limiting example, 15 gross potential of the property may be determined based upon average sales price or average rental rate for the geographic area times the overall area of the real estate unit. Market potential may be based upon market studies based upon the type of property. In step 425, a selected Property from Property Table 305 is displayed, pulling from all relevant data sources. Since homes are a matter of public record, by default a basic description of the home could be provided for general public 20 consumption which shows only basic information about the home, but does not display private files or details of rooms and/or other areas. This basic information could include the city, state and zip code of the property, the property features, the rooms and other areas of the home but no ability to see the particulars of the various rooms and other areas nor any information which specifically ties the property to a specific address. For the User in Table 303 all the details of the Property from 25 Table 305 and the associated data containers are visible and editable. For the user's Trusted Communities Table 315 only the details which are generally public or marked as viewable by the community are visible to the Trusted Member 316, but no data is editable by anyone or anything other than the owning User in Table 303.

Another aspect of the invention is the data structures and computer-implemented 30 procedures providing the ability to upload images, videos, sounds or documents, herein referred to as "files", to associate with the property, with a room in the home, with an area of the property, with an inventory item or with a home project, as illustrated in a non-limiting example of FIGs. 20A-D. In one embodiment, the user may email files to a data store, e.g., a Property Table, for attachment to an existing entity, including but not limited to real property, personal property, a 35 room in a home, an area of the property, an inventory item or a home project. A related aspect is computer-implemented procedures enabling the user to create a presentation of the home from the

associated files. In one aspect of the invention, computer files can be uploaded to or referenced with a Property Table 305, with a room in the property, with an area of the property, with an inventory item or with a home project, as illustrated in FIGs. 20A and D. The files may include, but are not limited to, video footage and/or photo documentary of the property. In one example, 5 the videos include interior, exterior and ground views of the real estate unit, as illustrated in a non-limiting example of FIG. 20B. The videos may, optionally, include videos of the surrounding properties and the general overview of the area.

An unlimited number of computer files could be stored or limits could be placed to allow only a certain number of computer files and/or a limited amount of absolute storage provided to 10 each type of computer file or collectively across all computer file types. FIG. 6A defines one example of the process by which this occurs. In step 601, the user is presented an upload-files display which enables the user to manually enter a path to a computer file or browse their onboard computer storage for a computer file while also providing a binary decision to only reference the computer file from an external system and not upload the computer file directly to this system. The 15 computer files themselves could be uploaded one-by-one or through a group selection. In one embodiment, the user may email files to a data store, directly or indirectly, e.g., to a Property Table, for attachment to or association with an existing entity, including but not limited to real property, personal property, a room in a home, an area of the property, an inventory item or a home project. The user defines one or more computer files to upload or reference and then through 20 step 602 they upload or reference the selected computer files. These computer files could be images, videos, audio and/or documents, herein referred to as files. Steps 603, 604, and 605 provide the checks to lead the processing down file-type-specific processing. In step 606, an image is checked for the appropriate file extension; where, an image could be any format used for image storage and recall such as TIFF, JPEG, GIF, PNG, BMP and the like. In step 607, a video is 25 checked for the appropriate file extension. A video could be in any format used for video storage and play, such as QT, MPEG, AVI, WMF, and the like. In step 609, an audio file is checked for the appropriate file extension. An audio file could be in any format used for audio storage and play, such as WAV, MP3, AAC, WMA, DRM, and the like. In step 620, a document file is checked for the appropriate file extension. A document could be in any format used for document 30 storage and recall, such as DOC, PDF, RTF, TXT, XLS, MPP, ZIP, PPT, XML, HTML and the like. In step 619, the by-reference check is made and if the file is not to be uploaded, then step 618 is executed to create a File 304 which is a reference only in the File List 314; no upload occurs. But, if the upload is to occur, then step 609 executes to pull the file from the target source, store the file on the system and create the appropriate File 304 and File List 314 references. Once a File 35 304 is created, either by reference or upload, step 616 sets the privacy attribute on the File 304 to a default based on a User 303 preference, but the user may change the privacy state at any time after

upload. Each file may be deemed as private (only the user), semi-private (only the user and his/her trusted communities) or public (everyone), but this design does not intend to limit the design to just these three privacy states but rather provides this merely as an example for the preferred embodiment. As defined in step 610, processing continues until all identified files are uploaded or 5 referenced. Files may be uploaded or referenced directly to a property, room, other area, project, or inventory item, as illustrated in FIGS. 20A-D. One or more property and home photos may also be uploaded or referenced directly on the property and then distributed to the various rooms and other areas.

Some embodiments, for example, as illustrated in FIG. 6B, provide a process for assigning 10 property photos to the property itself, as illustrated in FIG. 20B, or the associated rooms or other areas, as illustrated in FIG. 20A. In step 613, the user views all the images uploaded to Property Table 305 and Property Areas Table 308 through their associated File List 314. In step 614, the user then selects an image from the File List 314 and assigns it to another File List 314 which is to say moves it from either the Property Table's 305 File List 314 or the Property Area Table's 308 15 File List 314. The user does this until he/she is done and then the changes are saved in step 615. There are many ways to implement the user interface for this file assignment, but one exemplary embodiment is defined in FIG. 6C. In this diagram there is a section for the property images 630 at the top with the list of images currently assigned to a property. If the list of images is too long to view in one screen there is a scrolling function 631 to support navigation to all images in the list. 20 To add more images there is a control 632 to initiate the upload process. Below the property images 630 there is a section 633 for the rooms 643 and other areas images 642. This section is divided up into the various floors of the home with the active home being uniquely identified so as to stand out. The rooms 636-641 in a particular floor are listed in the section 635 which is attached to the floor. The layout of the rooms 636-641 is only an example and not meant to be the 25 exhaustive definition. Each room or other area has zero or more images assigned to it. When a room or other area has multiple images 638, a navigation control is provided to be able to view all images in the room or other area. The moving of images to the property, the rooms or the other areas could be done many ways. For example, the user could click an image to make it active and then click a room or other area which would then assign the image to that room or other area; or, 30 on selection of an image a menu becomes available, either drop-down or popup, to pick the room to which the image is to be assigned; or, the user could grab an image and drag it to the appropriate room or other area and let go to assign it. When the user is done the user can save 644 user's assignments.

Once the files are uploaded or referenced, one embodiment enables the user to create a 35 presentation of the home. This presentation could be constructed from one or more of the files

associated with the property, the areas, the projects and/or the inventory items. The presentation could be on the property, one or more rooms in the home, one or more other areas of the property, one or more inventory items, and/or one or more home projects, or any combination of same, really whatever the user would like to present. The user could create either a limited or unlimited 5 number of presentations and associate a particular presentation with the property, with a room in the home, with an area of the property, with the inventory, with an item in the inventory or with a particular project in the home. In one specific example, the presentation may be a virtual tour of the property exemplified by sequential presentation of files. A virtual tour may be made available for viewing by members of the Trusted Community. A virtual tour may or may not be active until 10 the property is placed "on sale" or "for rent." Subsequent to placing property "on sale" or "for "rent," a virtual tour may be conducted by a prospective buyer, prospective renter or a real estate agent from a remote terminal operatively connected to the internet and/or other private or public network, after a prospective buyer, renter or a real estate agent selects a number of properties on 15 the system for a comparative review. Optionally, the virtual tour feature may allow the user to select between 'furnished' video option, where the original files are of the furnished property, and 'unfurnished' option, where any furniture present in the files is digitally removed from files.

Optionally, the virtual tour feature may allow the user to select a "my furniture" option or the like that allows the user to place digital emulations of the user's furniture into an unfurnished version of the virtual tour. The system may allow the user to print out the floor plan of the 20 Property 305 with the 'my furniture' selections marked up to the plan, or directly communicate the plan to the moving company to facilitate desired placing of furniture during the move.

Another aspect of the invention is the ability to define one's belongings, or inventory, in the home or otherwise, as illustrated in a non-limiting example of FIGs. 24 and 25A-B. One example of the process for creating and editing inventory items is defined in FIG. 7A. In step 702, 25 an Inventory Item entry 307 is created, as illustrated in a non-limiting example of FIG. 25A and saved in Inventory Table 306, illustrated in a non-limiting example of FIG. 24.

In step 703, if the user is editing the inventory manually, the item is displayed, 706, and the user is allowed to edit the attributes, 711, as illustrated in a non-limiting example of FIG. 25B. These attributes include but are not limited to item name, type of item; such as, but not limited to, 30 antiques, appliances, artwork, building/craft material, built-ins, cameras, clothing, collectibles, computers, cutlery, decorations, dishes, electronics, or anything that can be purchased, borrowed or loaned; the room or other area in which the item is located, manufacturer, model number, universal product code (UPC), serial number, place of purchase, purchase date, purchase price, market value, quantity and the like. Also included with the item's definition is the item's attribute

'for sale' or not. All Inventory Item entries 307 that are marked as 'for sale' show up with the property details as public information.

If not editing manually, as determined at test 703, and the item details are coming from a document, as determined at 705 then the system will select at 708 passer that is a pre-configured 5 using configuration 709 for the source of the document. The valid document types provided by the source may be any formats used for document storage and recall such as DOC, PDF, RTF, TXT, XLS, MPP, ZIP, PPT, XML, HTML and the like. The contents of the document from a source would be specific to the source and would have to be enabled for logical parsing indicated at 712 such that the item details are readily extracted from the document and applied to Inventory Item 10 entry 307. The format of the source document could be agreed upon by the source and the system as, for example, with an interface definition. This source document can be downloaded by the user or sent automatically by the source to this system.

If not parsing a document, determined at 705, and the item details are determined to be coming from a universal product code (UPC) at 704, then either an image of the UPC code is to be 15 processed or the UPC string is available and processed directly. If processing an image, per test 707, then first the UPC string must be extracted from the image, act 710. There are many commercially-available solutions for act 710. The next act 714, is executed which now parses the UPC string in character form to extract the product information from the string and populate an Inventory Item entry 307. The UPC is an international standard with many commercially-available 20 (and in some cases, free) software solutions which should be applied. Once the Inventory Item entry 307 is created and/or edited either manually or from a document or from a UPC then the user can upload at act 600 zero or more files to associate or reference with an Inventory Item entry 307. When done, step 713, the Inventory Item entry 307 is saved.

Another aspect of the invention with regard to inventory is the data structures and 25 computer-implemented procedures providing the ability to manage the monetary value associated with the inventory, both from a purchase-price point of view and market value. This aspect may include providing the user with the ability to automatically integrate with both online (e.g., Amazon.com) and traditional "brick-and-mortar" stores (e.g., Home Depot, Sears, and the like) and buy/sell marketplaces (e.g., eBay, auction houses, et. al.) to track their buying and selling of 30 inventory items.

Another aspect of the invention with regard to inventory is the ability to integrate the selling of items in the inventory with one or more third-party buy-sell online forums (e.g., eBay). FIG. 7B defines one example of the processing for selling. Prior to initiating this process, the user would have had to set up an account on the third-party buy-sell forum and to inform the system of

that account information as previously defined in FIG. 10. To sell, the user would select the items in the inventory to sell, step 721, then select the market from a pre-defined configuration of integrated markets to which to transmit the sell, step 722, then define any market-specifics attributes; such as, for example but not limited to, lowest acceptable price, selling period and the like, and then transmit, step 724, the sell order to the buy-sell forum. To close out the transaction, the system should receive, step 725, an acknowledgement of the sell order. The transmission of sell orders could be conducted over the internet, telephone, cell phone, satellite or some other dedicated or generally-available communication link. After closing sales transaction, as exemplified in FIG. 7D, the third-party buy-sell forum would communicate back the sale particulars of the item(s) sold. The system would first validate, step 741, the user/market info against the External Market Info Table 317 and then update market value and sell date of the Inventory Item entry 307 and Inventory Table 306 accordingly.

Another aspect of the invention with regard to inventory is the ability to integrate the buying of items from one or more third-party, online marketplaces (e.g., Amazon.com) and either automatically or manually update the user's inventory on purchase. To use automatic services, the user would have to have setup an account on the third-party marketplace and inform the system of the account information as previously defined in FIG. 10. On purchase, the online market could communicate directly with the system, indicated at 727, via the internet, telephone, cell phone, satellite or some other dedicated or generally available communication link providing the user's online-market account information along with the purchase information. The system would associate its user with the External Market Info Table 317 and validate the market data's correctness at 728. Valid purchases are extracted from the buy status step 729, and new inventory items are created accordingly, step 700. The online market may also only provide the purchase information on their forum or some other customer communication from which the user could manually enter the inventory information into the system.

Another aspect of the invention with regard to inventory is the ability to integrate the buying of items from one or more third-party, in-person marketplaces (e.g., Home Depot, Lowes, Sears, et. al.) and either automatically or manually update the user's inventory on purchase. To use automatic services, the user would have to set up an account on the in-person marketplace and inform the system of the account information FIG. 10. The processing of connected, in-person marketplaces would be identical to the previously defined online marketplaces. Additionally, in both connected and non-connected in-person marketplaces, the user may have access to their account while in the in-person marketplace to view aspects of their property and/or inventory. Possibly the in-person marketplace enables the user to scan the UPC off of a purchased item and perform the automatic processing of the UPC string as defined in FIG. 7A. The access to the user's

account could be through a web-enabled computer in the in-person marketplace or through a web-enabled cell phone or web-enabled personal data assistant or some other communication-enabled device through which access to this system can be achieved. These communication-enabled devices could be provided by the in-person marketplace or by the user themselves. The user may 5 also have “smart-card” technology which could capture the in-person marketplace buy information which the user would bring to the system and from which the system would extract the buy information. The buy information on the smart-card could either be stored as one or more documents (e.g. the types of documents as defined in the description of FIG. 6A) or as some other persistent storage easily migrated from the smart-card to the system, for example, a relational 10 database from which the data could be exported from the smart-card and imported to the system.

A further aspect of the invention with regard to inventory is the ability to integrate the user's inventory with one or more third party, in-person marketplaces (e.g., a so-called “brick an 15 mortar store such as a lumber yard, hardware store, building supplies store, etc.). In a non-limiting example, the in-person marketplace provides customers/users electronic information about the inventory of the marketplace at a specific location, i.e., a marketplace inventory (e.g., an 20 inventory of items offered, ongoing sales, and inventory layout within a specific location). Customers may access their account while in the marketplace to view aspects of their property and/or inventory, e.g., a supply inventory comprising one or more lists items generally need or desired, e.g., for the home or other personal property items unrelated to the home, e.g., items that 25 may be needed to complete a particular project. Simultaneously, customers may access the information provided by the in-person marketplace to locate an item listed in the user's inventory within the specific in-person marketplace. In one embodiment, the user accesses the user's property, inventory or home project information contained in a data table via any suitable portable internet-capable device, e.g., smart phone, , wireless personal digital assistant (PDA), mobile phone or other handheld communication device, etc., and the system notifies the user visiting a 30 selected in-person marketplace of the current supply inventory listed in a data table. Alternatively or additionally, the portable device queries the system as to whether an item listed in the user's inventory is available in a given in-person marketplace or a section of a particular in-person marketplace. Once the sales transaction is completed, the in-store marketplace can email a receipt or a duplicate receipt for the transaction directly to the user's account. In addition, the in-store marketplace can email additional product information to the user's account, including but not limited to, product specifications or a product or service quotation or bid.

35 Thus, according to this aspect of the invention, a method is provided for managing property information comprising operating a computer system to create a data structure in a data store containing information comprising a supply inventory pertaining to for example, items

generally needed or desired, e.g., for the home or other personal property items unrelated to the home, or items needed or desired for one or more projects to be executed on said property. The method may further comprise operating a computer system to create an additional data structure in a data store containing information comprising a marketplace inventory of a third party

5 marketplace. The additional data structure is optionally provided by a computer-interactable data structure configured and arranged for receiving from the third party marketplace said marketplace inventory. In one embodiment, a user may access said supply inventory via a portable internet-capable device. The user may also access said marketplace inventory via such a portable internet-capable device. Optionally, the user may access said supply inventory and said marketplace

10 inventories simultaneously. In an alternate embodiment, the user may revise said supply inventory via said portable internet-capable device and in some embodiments, the user may supply information to a data structure via email. In addition, the third party marketplace may email product information to a data structure, wherein said product information is selected from the group consisting of a receipt, a quotation for a product or service, product specifications, and

15 combinations thereof.

Another aspect of the invention with regard to inventory is the ability to manage the monetary value associated with the inventory, both from a purchase-price point of view and market value. The market value could be manually set by the user or automatically set by an algorithm which monitors one or more third-party open buy-sell online forums (e.g., eBay) to

20 determine the current market value for an item.

Another aspect of the invention is the data structures and computer-implemented procedures which provide the ability to document and execute home projects. Such procedures include, for example, tracking changes to the homeowner's tax basis in the home based on past and present project work. They may also include submitting entered projects for bid to service

25 providers participating in the public forum, such as, for example, by communicating this information via the World Wide Web or a public or private network.

The ability to document and execute projects on the property is another aspect of the invention, illustrated in a non-limiting example of FIGs. 22 and 23A-C. Home projects could include but are not limited to home improvements, repairs, extensions, one-time maintenance, periodic maintenance and the like. These projects could be associated with the property, on the home exterior, interior, one or more rooms in the home, one or more areas of the property, and/or some combination of same. These projects could be just a description by the user for historical purposes not meant to be executed by a service provider or to be posted to service providers for ultimate execution. FIG. 22 shows an example of a user interface screen 2200 to display from a

30 database of projects associated with Property 2201 an overview of those projects. The

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user/homeowner has previously created the project entries shown in this example (e.g., Gutters Project 2202, Fix Railing project 2204, etc.). Projects may be created in any convenient way depending on the underlying database. For example, a click on a New Project icon 2206 may bring up a project input screen. On screen 2200, the user may be provided, for example, with a 5 selection box 2208 that may be checked to delete a project and a status pull-down selection box 2210 to permit status updates; entry fields 2212 and 2214 for project start and end data entries, and a check box 2216 where the user may choose to publish the project (e.g., to receive bids). More detailed per project information may be input, for example, on one or more “Edit Project” screens 10 such as screens 2302, 2304 and 2306 of FIGS. 23A-23C, which together provide a “snap shot” of one project. These screens capture typical information that might be used to publish a project to receive bids from service provider such as contractors, for example. The fields and organization 15 shown are intended to be exemplary and not limiting. On other screens, actual project results may be entered/captured.

In FIG. 8A, the user would, for example, first select a project category, at step 805, and 15 then, in step 806, create the Project Table or entry in Project Table 310, as illustrated in a non-limiting example of FIG. 23A. From here the user would specify in Step 809 (e.g., on screen 2302) an overview of the project that could include but need not be limited to, for example, a name, a description, entries to the affected Project Areas Table 309 (i.e., rooms and/or areas of the home being involved), desired start date, desired completion date, approximate budget, and/or contact 20 information including but not limited to email, phone, cell phone, and/or private message. The user would then set the privacy she desires on the project, at 808, e.g., either private (no one but the user having access), public (everyone, including the user having access) or semi-private (only the user and his/her Trusted Community having access). If the type of project selected requires supplemental questions to be answered, determined at test 809, the user would answer one or more 25 questions that are specific to the project, step 810. Each question could require an answer of a predetermined type. Next, the user could upload or reference one or more files to help describe the project 600, such as video, audio, picture, text or other files, as illustrated in a non-limiting example of FIG. 23B. The information on the project may be input by the user at various times, thereby allowing the history of a project to be recorded in increments. Optionally (and not shown), 30 the system may automatically populate a routine maintenance calendar for the user’s review and approval, e.g., scheduling gardening, gutter cleaning, heating oil delivery, air conditioning maintenance and other routine services and record the completion of each routine maintenance event (in some instances, automatically or semi-automatically), with or without verification by a user. Yet in other embodiments, the user may manually populate a routine maintenance calendar. 35 Yet in another embodiment, the system may contain a ‘reminder’ module which populates reminders to the user to schedule desired or recommended maintenance tasks.

At this point, the definition of the project is complete and the user decides, in step 811, to either submit the project for bid or just save it for a later submission, possibly never submitting the bid. According to some embodiments, the system may automatically formulate a project bid and forward it to registered service providers using communication devices and/or post it for service providers in the Trusted Community. The system may then collect bids and allow the user to review bids and select a service provider. The selection may be assisted by using computer algorithms based on bid price, rank ordering or combination thereof.

With regard to the uploaded or referenced files, the user could organize the files of the project into one or more folders associated with a project, as illustrated in a non-limiting example 10 of FIG. 23C. For example, the user might create “before,” “during” and “after” folders for a project. The user could also have folders for each of the service providers offering bids on a project. The user could also have folders for each service provider executing a project. These examples on the use of folders are not meant to limit the definition of the system but merely to provide context to how the user might use the system.

15 In FIG. 9, one example of a process for creating a folder and assigning files to the folder is defined. Starting at 900, the user could, in step 901, create a new Folder 313 and the system would add that folder to the Folder List Table 312 of a project. The user could choose at decision step 902 to upload files to the Folder 313 and in decision step 903 the user could choose to move files to the Folder 313. To move files from one Folder 313 to another the user would, for example, first 20 select the Folder 313 from which files are to be moved, step 904, and then (step 905) select the files in that Folder 313 to be moved and then in step 907 have the system move the files from the previous Folder’s 313 File List Table 314 to the other Folder’s 313 File List Table 314. The process ends at 908.

Another aspect with regard to home projects is the ability to track changes to the home’s 25 tax basis based on the project work. The user will be able to manually change the basis modification for each project, for example, through a WORLD WIDE WEB page interface, as illustrated in a non-limiting example of “Edit Home” screens in FIGs. 21A-D. The system will also provide suggestions with regard to how the cost basis should be adjusted. By default, the system may define a project as basis-affecting or it may define a project as not basis-affecting. If a project 30 is basis-affecting, all costs of the project may be automatically added to the basis. Preferably, an audit trail will be maintained for all basis adjustments so that it will be easy to document when, how and why the basis changed. Screen 2100 (FIG. 21A) shows an example of a basic input screen for defining a real property location. FIG. 21B shows an example of a screen 2102 for attaching image and other files relating to the property, and adding captions to them. FIG. 21C 35 shows an example of a screen 2104 for inputting property details. The basis number at 2103 may

be manually input or identified by the system from purchase price and adjustments supplied by improvement projects. FIG. 21D shows an example of a screen 2106 for inputting various details characterizing the property. When this information is published, some or all of it typically is presented in read-only form.

5 Another aspect of the system is the data structures and computer-implemented procedures providing the ability for service providers to join the public forum to receive project leads from users. Additionally service providers are providing the ability to help them market their services by providing them the tools to create one or more portfolios with associated files.

According to one more aspect, service providers may also join the system so as to market
10 their services and receive project leads. According to one specific example, a service provider may be a member of the public forum. Service providers include, but are not limited to, carpenters, electricians, plumbers, landscapers, painters, handymen, architects, inspectors, insect and/or rodent exterminators, cleaners, realtors, tax advisors, lawyers or any person, company or organization who provides or wishes to provide services to users of the public forum. A service provider will
15 preferably identify one or more persons as the administrator(s) of the company or organization relative to the system. The administrator would be responsible for the setting up the account for the company or organization and also defining associates of the company or organization who will operate on the public forum as representatives of the company or organization. In one example, in step 1005 a service provider administrator's information would be the same as that for a normal
20 User 303 but additional information will be required with regard to the Organization 302 including but not limited to company name, description, email address, fax number, address, web link, and credit card information for billing purposes. Once the general information is provided, the administrator can create one or more associates in step 1006, who will represent the Organization 302 on the public forum. Next the administrator can create one or more portfolios, step 1007 to
25 help market the company's services, using folder mechanisms illustrated at process 900 in FIG. 9. The administrator also can set up the categories of project leads they desire their Organization 302 to receive step 1009. The categories of project leads should be an easily extendable list of projects a user would desire to execute including but not limited to installing decks, painting the exterior of a house, painting the interior of a house, replacing a toilet, remodeling a kitchen, selling a home,
30 buying a home, build a home, or any type of service anyone would desire to do in or around their home or not even associated with their home or any home. This list of project categories is not meant to be exhaustive but, rather, is provided as an example to help communicate the design. On joining, a service provider could be charged a fee or agree to later pay a fee(s) to participate in the community. This fee could take many forms such as, but not limited to, annual dues, per-lead

charge, and/or a percentage of the proceeds taken in by the service provider on various projects executed via leads from the system.

Another (optional) aspect of the system is data structures and computer-implemented procedures providing the ability for the user to post reviews of service providers and share those reviews with the public forum. These reviews can be associated with a project defined by the user or not.

With service providers in the system, a user may post ratings on one or more service providers as defined in FIG. 3. These ratings may be associated with a project the user executed on their property and stored with the system or it could be a review based on project work or other experience not necessarily associated with a project stored with the system. In an example process 830 illustrated in FIG. 8B, a provider to be rated is first selected, step 831. It is assumed in the example that the provider category ratings must be edited step 832. Provided ratings, for example, could be timeliness on the project, cleanliness associated with the project, price compared to the competition, quality of the work performed, communication before, during and after the project, and/or professionalism throughout the project. In step 832, the user could also manually define a different or an overall rating or automatically calculate an overall rating from the other defined category ratings described, as at 833. If the user decides to automatically calculate an overall average, then the system sums the other rating categories and calculates an average from the sum and applies it as the overall rating. Next, the user may define the background context for the rating, at 834, including, for example, whether the job was completed, whether the user would hire the provider again, the approximate cost of the work, a description of the work and/or general comments about the provider or the project in question. Finally, optionally a Project 310 could be associated with the rating at 835 as supplemental information. Each rating category could be graded, for example, on a 1 to 5 scale. A rating may also be undefined or not applicable.

At a minimum, the user should define the category of the provider and an overall rating. A service provider who has a low rating might be allowed to provide a rebuttal to the rating. Once a rating is defined, the new rating and all previous ratings preferably are viewable by all members of the system including the service providers; and each service provider will have a total rating which aggregates all the ratings provided by all the users. This total rating could include an average and/or a median of the all the ratings provided by users.

Preferably, a user may choose to view only the service provider ratings they have captured in the system, or select service providers or service providers with minimum rating values or other filtered information or service providers (e.g., only electricians who complete projects on time and on budget).

The system may enable the user to choose a preferred service provider manually, or allow the system to select a service provider automatically according to the internal ranking system and time availability. The system may enable the user to specifically disallow selected providers from automatic selection. The user preferably may specify the selection criteria, e.g., price, ranking, 5 speed, etc. for automatic selection. The system may enable the user to import scheduling flexibility options and/or set up any searchable cut-off criteria for selecting a service provider.

According to one aspect of the invention, users may add service providers to the system. The user would fill out a user registration for the provider, for example, as defined in FIG. 10A, filling in as much of the information as they have at their disposal, and initiating the activation 10 process at step 1011. The service provider would have to accept the activation 1011 and on doing so the service provider would become an active service provider in the system. If a user initiates the membership, then Provider Referral Table 319 is updated to reflect the activation of the service provider 1011. Once a service provider activates their membership indicated at 1012 the user might, for example, be eligible for a measure of economic benefit to be distributed to the user. This 15 measure of economic benefit could take the form of cash, stock grant(s), stock option(s), bonds (US, municipal and/or corporate), and/or coupons for goods, services, vacations, meals, events, cars, anything an individual might see economic benefit in receiving, or some combination of same or other benefits. The amount associated with the measure of economic benefit could be some set value not based on any monetary return to the service provider; it could be determined based on a 20 percentage of the sign-on fee paid by a service provider; it could be determined based on a percentage of fees paid by or to a service provider for project leads they receive; or it could be determined based on some combination of same or some other algorithm.

With service providers in the system and users submitting projects, the system provides a mechanism to post project leads to potential service providers who perform the type of work being 25 requested. As illustrated in FIG. 8A, a user may submit at 811 a project for bid from one or more service providers. On the user choosing to do so, the system could determine all service providers who have signed up to view the type of project submitted by the user, act812. The system could then determine in step 815 if the lead is to be handled "in-network" - meaning by providers who are registered with the system or externally. The in-network decision could be based on providers 30 who are registered and/or a configuration of leads not to be processed in-network and/or any other like way to discern in-network handling. If the leads are not in-network then the system, in step 816, could communicate over the internet, telephone, cell phone, satellite or some other dedicated or generally-available communication link the desired lead to an External Support Service 102 for processing. If the lead is in-network, the system could then at step 823 disseminate the project lead 35 to all service providers who have appropriately set up their payment method in the system. The

system could limit the receiving service providers by proximity to the user, for example, certain mile radius, same street, same neighborhood, same zip code, same city, same county, same state, same province, same country, same continent, or any way to limit the field of service providers for a project using geographical references. The field of service providers bidding on a project may 5 also be limited by an overall rating level a service provider may have or by individual ratings a provider may have (for example, quality of service, timeliness, cleanliness, cost, and the like). The field of service providers bidding on a project may also be limited by the user identifying specific service providers as being undesirable i.e., if a service provider's deemed undesirable by the user, it will never see leads from that user. The field of service providers bidding on a project may also 10 be limited by the number of leads they can receive in a certain span of time or from a certain geographical area or by the number of leads of a particular type they can receive or some combination of same or any other like way to constrain the leads received by a provider.

Manifestly, users provide the system with information that in the aggregate could prove to be of significant value to marketing entities. Selling aggregated, non-personalized information (or, 15 with permission, personalized information) could be a significant revenue source for the system. In one example, the system may generate an activity map of real estate transactions displaying frequency and/or volume of sales/rentals, average price per property or per square footage of property, etc. mapped onto a geographic map or other data structure (e.g., zip code listing). Also, integrated advertisements could be an essential revenue source for the system. These ads could be 20 general in nature (meaning, not specific to the user viewing the information) and/or specifically targeted to an individual based on the data they provide to the system. Open access to an individual's personal data in the system must be controlled by the user to the level they wish to publish their personal information, as previously mentioned. As defined in FIG. 14A, a user's desire for privacy of their data could also carry over to receipt of targeted ads as generated by 25 computer algorithms operating on a user's data. Preferably, the user should get the opportunity to opt out of either data aggregation (step 1401) or targeted advertisement (step 1402).

Another aspect of the invention is the data structures and computer-implemented procedures providing the ability to produce aggregated market data about all users of the system along with providing advertisements for users both general in nature and targeted to a user based 30 on the information the user has provided the system. This includes the data structures and computer-implemented algorithms for determining a measure of economic benefit to be provided to one or more users of the system.

In one aspect of the invention, the system provides a measure of economic benefit to users based on their participation in one or more revenue-generating services. This measure of economic 35 benefit could take the form of cash, stock grant(s), stock option(s), bonds (US, municipal and/or

corporate), and/or coupons for goods, services, vacations, meals, events, cars, anything an individual might see economic benefit in receiving, or some combination of same. The measure of economic benefit to a particular user could be established by the level of revenue generated for the company that can be directly attributed to the user's participation in revenue-generating services of the system.

To capture user opt-in or opt-out with regard to data aggregation services, FIG. 14B defines one example of the processing to track data aggregation opt-in. When a registered entity (determined in steps 1405, 1000) desires to receive aggregated data from the system, the entity first chooses the desired dataset filter to be produced, in step 1406. The dataset filter could be set to limit the data by geographical location, wherein the dataset is limited by only certain countries, states, counties or provinces, cities, and/or zip codes. The dataset filter could also be set to limit the data by property type, property cost, property size, inventory category, project types and/or number, and/or any key attributes provided by the system to describe the property, home, inventory and/or projects defined in the system. Once a data filter is selected, the Users 303 in the system are screened in steps 1407-1411 and each user opting in to data aggregation (determined at step 1408 will be added (step 1409) to the list of users providing cleansed data to be aggregated. The system will log for the user a data aggregation participation event (step 1410) to track their participation. Once all the users are chosen (step 1411), the personal-data cleansed aggregated data is bundled and sent to the requesting entity (step 1412).

To capture user opt-in or opt-out with regard to advertisements or other pay content, FIG. 14C defines one example of the processing associated with showing pay content to a user and also logging access to the pay content. First, a user chooses to view some content of the system step 1423. If the user configures the system for 'target ads off' (determined in step 1433) then (step 1432) only general pay content is shown along with the normal system content. If the user configures the system for 'target ads on' (also determined in step 1433), then the system shows all pay content along with the normal system content step 1424. A user may decide to view one or more pay content step 1431. On so doing, the system checks the content as being general in nature (step 1425) and, if 'general,' the system logs a general ad-viewing event for the user whose data is being viewed 1427. If the ad was targeted to the user, then the system logs a targeted ad-viewing event for the user whose data is being viewed 1428. If the pay content is something other than a general or targeted ad, the system logs a viewing of other content for the user whose data is being viewed.

According to one aspect of the invention, the system may determine the measure of economic benefit to a user from the opt-in information 320. In one example, this determination could take the opt-in information and the level of participation for each user and base the benefit

on that level. In the opt-in information, the system could track the actual revenue generated by each viewing and provide some percentage of each viewing to the user. In another example, the measure of economic benefit could also be uniformly distributed to all opt-in users regardless of level of participation or actual revenue generated. In another example, the measure of economic
5 benefit also could be uniformly distributed to all users regardless of opt-in or opt-out status. This measure of economic benefit could also be limited to certain users of the system, for example, celebrities from movies, music, news, sports, television, literature, business, art or the like. To expand, celebrities or any user could be enticed to provide property information to the system by a measure of economic benefit which could be tied to the revenue their information actually
10 generates and/or could potentially generate.

Another optional aspect of the invention is the ability for municipal governments to publish on a public forum the details of properties in their jurisdiction. As exemplified in FIG. 11A, using a county as example of a municipality, a population of county properties is defined. In step 1101 the system determines which counties are configured (in application configuration file 709) to be pre-populated. The system then iterates (steps 1102-1104) over each of the counties. At step 1103, a populater module executes the pre-population of that county's data. This process repeats for each of the county populaters in step 1104. The processing of the individual counties could be executed sequentially on one computer or one or more counties could be executed concurrently within operating system threads or processes on a single computer or the processing
15 of counties could be spread across one or more threads processes on one or more computers.
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One example, of the processing of each county populater is defined in FIG. 11B. Three examples of populaters are: one that works by scraping a web site (operation 1109), another which works from a data feed (operation 1117) and a third one which works off a data file (operation 1113). In the web site case the "yes" path from decision 1108) the system connects to the web site
25 (step 1109), initiates a query on the site for a set of properties (step 1110) and then takes the resultant web page and extracts the property information one property at a time (step 1111) and saves each property data (process 1112), as defined in FIG. 11C. This processing continues until all properties are retrieved from the web site (step 1126). In the data feed case determined at decision step 1116, the system connects to the data feed source (step 1117), initiates a command
30 on the source to return a set of properties via the feed (step 1118) and then takes the resultant feed data and extracts the property information one property at a time (step 1119) and saves each property data (process 1112), as defined in FIG. 11C. This processing continues until all properties are retrieved from the data feed (as determined at step 1123). In the data file case, the system opens the data file (step 1113) and parses the document to extract the property information one

property at a time and saves each property data (process 1112), as defined in FIG. 11C. This processing continues until all properties are retrieved from the data file, per test step 1121.

One example of the saving of the municipality property data is defined in FIG. 11C. First, if there is property owner data in the dataset (test step 1130) that data is used to create or update (in 5 the case of the data previously being populated) User 303 information (step 1137). Next, if there is property information in the dataset (tested at step 1131) that data is used to first create or update (in the case of the data previously being populated) Property 305 information (step 1132). Next, room information is pulled from the dataset and used to create or update (in the case of the data previously being populated) Property Area 308 information (step 1133). Next, other area 10 information is pulled from the dataset and used to create or update (in the case of the data previously being populated) Property Area 308 information (step 1134). Next, property sales history is pulled from the dataset and used to create or update (in the case of the data previously being populated) Property Transfer 301 information (step 1135). And finally, property tax 15 assessment history is pulled from the dataset and used to create or update (in the case of the data previously being populated) Tax Assessment 318 information (step 1136).

According to some embodiments, a user in the system could generate a report of one or more of their properties as defined in FIGS. 13A and 13B. On choosing to generate a report, the user could select to include in the report some or all of: the property details (1301); the inventory not associated in the system with a room or other area (1302); the details of a plurality of rooms 20 and/or other areas (1303), the user could choose individual rooms/other areas or all rooms/other areas; and/or the inventory details on a selected room/other area-by room/other area basis (1304). Once these decisions are made the user could choose to generate the report (step 1305). If generating a report (process 1306), the system opens a report file (step 1308) and if the property details are to be included, retrieves the data from Property container 305 (step 1312) and writes the 25 formatted data out to the report file (step 1313). Next, if rooms/other areas are selected (step 1310), the system gets the room data for each room (steps 1314, 1317) and writes the formatted data out to the report file (step 1315) and then gets the inventory data from Inventory container 306 for the room/other area (step 1319) and writes the formatted data out to the data file (step 1318). When the selected rooms/other areas are completely processed determined by test step 30 1317), the system checks to see if inventory not assigned to a room is to be included (step 1311) and if so gets the unassigned inventory from Inventory container 306 (step 1321) and writes the formatted data out to the data file (step 1320). Once complete, the system displays the report file (step 1321) and the generation is completed (terminal 1322). The user once having a report could do whatever they wish with the report, for example, sending it to their insurance agent in the case 35 of making an insurance claim.

According to certain embodiments, some properties in the system are viewable by the general public. But at certain times a property owner may decide to sell their property and it would be advantageous for the general public to be so informed. The system may therefore provide the user the ability to "self-list" their property for sale. One example of a process 1200 for self-listing is defined in FIG. 12A and starts with the user selecting to sell their property (step 1201). The system would get the user data from User table 303 (step 1202) to check if ownership has been confirmed (step 1203). If the user has not previously provided key identifying information, he/she must provide this information following the decision to list the property (step 1204). The identifying information could be, for example, a social security number which can be used to check against county records, credit card information to verify identity with a major credit card company, bank account information to be checked against a commercial bank, and/or any other (strictly confidential) information that can be verified through a trusted source of such information. On completion of entry of the information, the system may check against official records (step 1205) which could require interface with an External Support Service 102. Once ownership is verified (step 1206) the user could also choose to submit a project to accept bids from a commission and/or fee realtor (step 1208) or sell it themselves (choice 1209) or submit the property for bids from auctioneers (choice 1210) or attempt to connect with cash-only property liquidators (choice 1211), or attempt all possible ways to sell their home (act 1212). In each case, a project is submitted (process 800) and all appropriate service providers are notified of the sell request. The final step could be to set a "for sale" status on the property in Property Table 305 (step 1213). Once ownership is confirmed, the user may also choose to identify their property as always open for a buying offer without having to go through the listing process. The user may also choose to list the home on an existing multiple listing service (MLS) using the system to construct an MLS-compliant home description and transmitting the description to the MLS.

In certain embodiments, the system enables a user interested in buying property to review a Property in Property Table 305, including certified property surveys, property inspections and property appraisals. In some embodiments, the system provides for continuous data mining features including recurring online automatic search capabilities for open houses that meet certain user-defined selection criteria. In another embodiment, the potential buyer may be automatically profiled by the system and certain listed properties may be suggested as falling within categories of his preference (e.g., price, location, number of bedrooms, land/house ratio).

The system also enables the prospective buyer/lessor to submit bids on the property on line.

According to one embodiment, the system enables the user selling his property to select a type of transaction service. The user may select a closed auction, where the owner can view the

bids and then contact individual bidders directly, or an open auction, where a bidder can bid against each other up from the lowest price, or an open auction starting at high price and lowering the price once an hour till the first bid is placed.

According to some embodiments for practicing aspects of the invention, the system may 5 provide security to the property owner by requiring bidders to place a predetermined amount of money, for example 10% of the starting bid price, in case the bidder winning the auction does not go forward with the transaction.

In one embodiment, the system may automatically obtain and post on the system a 10 municipal tax assessment of the property using a populator 1101. The system may specifically provide for electronic delivery of all documents required for a real estate transaction.

Another aspect of the invention is the data structures and computer-implemented 15 procedures providing the ability for the user, on completion of sale, to transfer the complete description of the property, project history and conveying inventory to the person or entity buying the home, such history being contained in one or more databases on one or more storage devices and/or on one or more servers operably connected to the internet, or other public or private 20 network(s). The previous homeowner may retain a copy of the home information for his/her/their records but the public account of the home in the forum would, on transfer, belong to the new owner of the home. In one aspect of the invention, a user would retain a copy of the home information for all previously owned properties for their records, and this information would be readily available, for example, as illustrated in the non-limiting example of FIG. 19.

Once a user has sold or otherwise transferred ownership of a property stored in the system, according to some embodiments, the seller transfers the stored information to the new owner for all or an agreed part of the property history including descriptions, supplemental data and all 25 public files of the property, rooms, other areas, conveying inventory, and projects. The seller may, of course, choose to delete or maintain as private and not transfer selected information such as, for example, the cost of a particular home improvement. In this way, the new owner may start with a complete or at least substantial record of the home on purchase. One example of a process 1220 for transferring a property from one user to another is defined in FIG. 12B. First, the user (i.e., seller) selects to transfer a property (step 1221). The user must provide contact information for the buyer 30 (input step 1222), such as the buyer's user name in the system and/or the buyer's email address. The seller must now decide whether to retain a copy of the transferred information (input step 1223) and then verify the decisions they have made (step 1224). On verification, the system sets the status of the property in Property 305 to reflect a transfer has been initiated. If the buyer is a member (step 1226) then an email is sent to the buyer informing the buyer of the property's

readiness to be transferred (step 1227). If the buyer is not a member, then an email is sent to the buyer informing the buyer that the property data is ready to be transferred but only if the buyer register with the system (step 1228). The buyer would then create an account 1229) and the process 1000 for joining the system would be initiated. Whether starting this process as a member 5 or joining during it, the buyer ultimately logs into its account (step 1230) and sees the property transfer is ready (output step 1231). If the buyer accepts the transfer (step 1232) the system will then archive all the property data if the seller so chose this to occur (step 1233). This creates a second copy of all the property information in the Database 208 which will only be viewable by the seller; it is strictly a historical record for the seller to do with as it wishes. It also removes all 10 private information from the property records such that the buyer will not see this data. After the archiving completes, the system assigns the buyer as the owner in Property container 305 (step 1234). From this time forward, the buyer is the user-of-record on the property.

In some embodiments for practicing aspects of the invention, upon sale of a property, the system will generate a transfer key code linked to all material non-private information associated 15 with the property. The transfer key code is delivered to the new owner at closing. The new owner, upon signing onto the system, is enabled to use the transfer key code to import the entire history of the property into his account including all inventory for the personal property identified as being conveyed. In some embodiments, the transfer may be accomplished by changing attributes of the property ownership locking mechanism upon receipt of a transfer key to allow one or more 20 communication devices to communicate complete property history data contained in a Property container 305 to a new owner and to communicate the property history data to the transferor only to the extent allowed by a new owner of the property.

The overall application as depicted in FIG. 1 and defined above could be deployed in multiple different ways. According to one embodiment as defined in FIG. 15A, the key systems 25 identified in FIG. 1 could all be deployed to and executed on one computer 1501. Additionally, the zero or more of the External Support Services 102 could be deployed to and executed on a different set of servers 1502 distinct and separate from the User Computer 1501. Additionally, the User Controls 100 could be deployed to and executed on a different computer 1500 distinct and 30 separate from computers 1503 on which is deployed and executing the Home Management System 101 and the External Support Services 102. Additionally, the External Support Services 102 could be deployed to and executing on a different set of computers 1502 which are distinct and separate from the computers 1503 housing the Home Management System 101.

To further illustrate an example deployment of the Home Management System 101, in FIG. 15B the Home Management System 101 is shown with the subsystems identified in FIG. 2 35 deployed to various computers. First, all of the components of the Home Management System 101

could be deployed to a single computer 1516 which, with the subsystems, would house all the appropriate operating system, user interface infrastructure, database technology, file system technology and network technology. An alternative deployment could be to re-partition the subsystems such that Database 208 and File 207 subsystems could be deployed to one or more 5 separate computers 1513 to improve robustness of the system and allow scaling of the core system across one or more computers 1511 to more efficiently support a plurality of users. Also, Database and File subsystems themselves could be separated from each other on different computers 1514 1515 to isolate database activity from other file system activity. Finally, the UI infrastructure could be pulled from the UI and Application Computers 1512 to further improve robustness and scaling 10 by providing independent computers focused on computing operations associated with an even larger volume of users while the Application Computers 1512 are focused on the computing operations associated with the core system. All of this re-partitioning of the subsystems across one or more computers could be achieved with one or more distributed object software infrastructures like .NET, J2EE, CORBA, and the like, but any suitable software tools may be used.

15 Although the present invention has been described in connection with specific embodiments for practicing it, those of ordinary skill in the art will understand that many modifications can be made thereto within the scope of the claims that follow. Accordingly, it is not intended that the scope of the invention in any way be limited by the above description, but instead be determined entirely by reference to the claims that follow.

20 What is claimed is:

Claims

1. A system for maintaining property information, the system comprising:
 - a. one or more databases configured to receive and store property information of a plurality of users, the property information comprising property history information for a first property owned by a current record owner, the property history information pertaining to one or more projects performed on the first property;
 - b. a server operatively connected to said one or more databases for receiving data to be written to the one or more databases and for delivering to a user data from said one or more databases;
 - c. a communication system operatively connecting one or more remote users to said server for writing to and/or reading from the one or more databases;
 - d. a property ownership locking mechanism limiting control of the property history information for the first property to the current record owner of said first property, the property ownership locking mechanism being configured to allow the current record owner to designate a portion of the property history information for the first property as private; and
 - e. a property ownership transfer mechanism operable to change the current record owner of the first property from a first user to a second user, the property ownership transfer mechanism being further configured to, upon the change of current record owner of the first property from the first user to the second user, transfer control of a non-private portion of the property history information for the first property to the second user, and retain under control of the first user the portion of the property history information for the first property designated as private.
2. The system of claim 1, wherein said database is configured to store property history information comprising real property information and information relating to one or more projects executed or to be executed on said real property.
3. The system of claim 1 or claim 2, further including a subsystem which captures at least some of the property history information directly or indirectly from publicly accessible data.
4. The system of claim 1 or claim 2, wherein the property ownership locking mechanism is adapted to be operated by the current record owner of said property to establish user access controls to limit access to selected property information to specific users or groups of users.

5. The system of claim 4 wherein said property ownership locking mechanism is further adapted to be operated by the current record owner of said property to establish user access controls to limit the type of access selected users or groups of users have to selected property information.

6. A method comprising acts of:

a. capturing property information on one or more storage devices operably connected to a computer system, said property information relating to multiple properties of multiple users, the property information comprising property history information for a first property owned by a current record owner, the property history information pertaining to one or more projects performed on the first property, wherein capturing the property history information includes establishing access controls configurable by the current record owner to control access to the property history information by users of the computer system;

b. allowing the current record owner to configure access to said property history information at least in part by designating a portion of the property history information for the first property as private;

c. transferring record ownership of said first property from a first user to a second user; and

d. upon transfer of the record ownership of the first property from the first user to the second user, transferring control of a non-private portion of the property history information for the first property to the second user, and retaining under control of the first user the portion of the property history information for the first property designated as private.

7. The method of claim 6 wherein capturing property information includes capturing information about a property at different times over a span of time.

8. The method of claim 6 or claim 7, wherein capturing property information includes receiving input from the record owner.

9. The method of claim 6 or claim 7, wherein capturing property information includes obtaining at least some of said property information from publicly accessible records.

10. The method of claim 6, wherein transferring record ownership of said first property from the first user to the second user comprises changing record owner information pertaining to said first property in a database.
11. The method of claim 10, wherein transferring record ownership of said first property does not transfer ownership of property information marked as private.
12. The method of claim 10, wherein prior to transferring record ownership of said first property from the first user to the second user, information is removed from the property information by the record owner, to maintain privacy of said removed information.
13. The method of claim 12, further comprising archiving at least the removed information such that said removed information remains private and accessible only to the record owner of the first property prior to the transfer.
14. A system for maintaining property information substantially as herein described with reference to any one of the embodiments of the invention illustrated in the accompanying drawings and/or examples.
15. A method substantially as herein described with reference to any one of the embodiments of the invention illustrated in the accompanying drawings and/or examples.

1/61

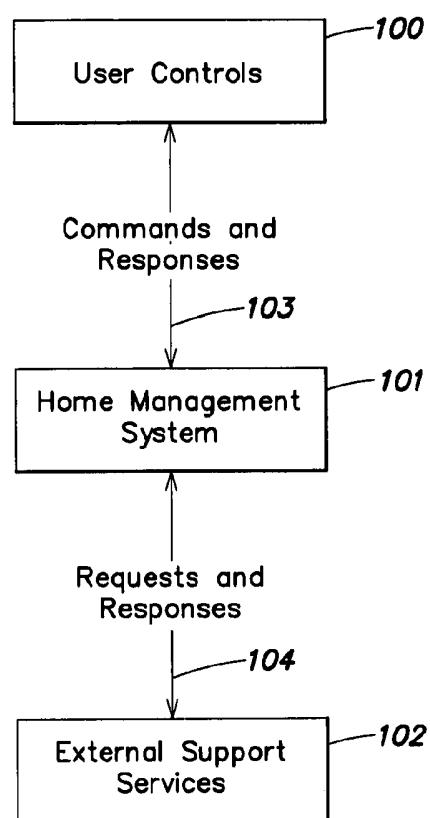


FIG. 1

2/61

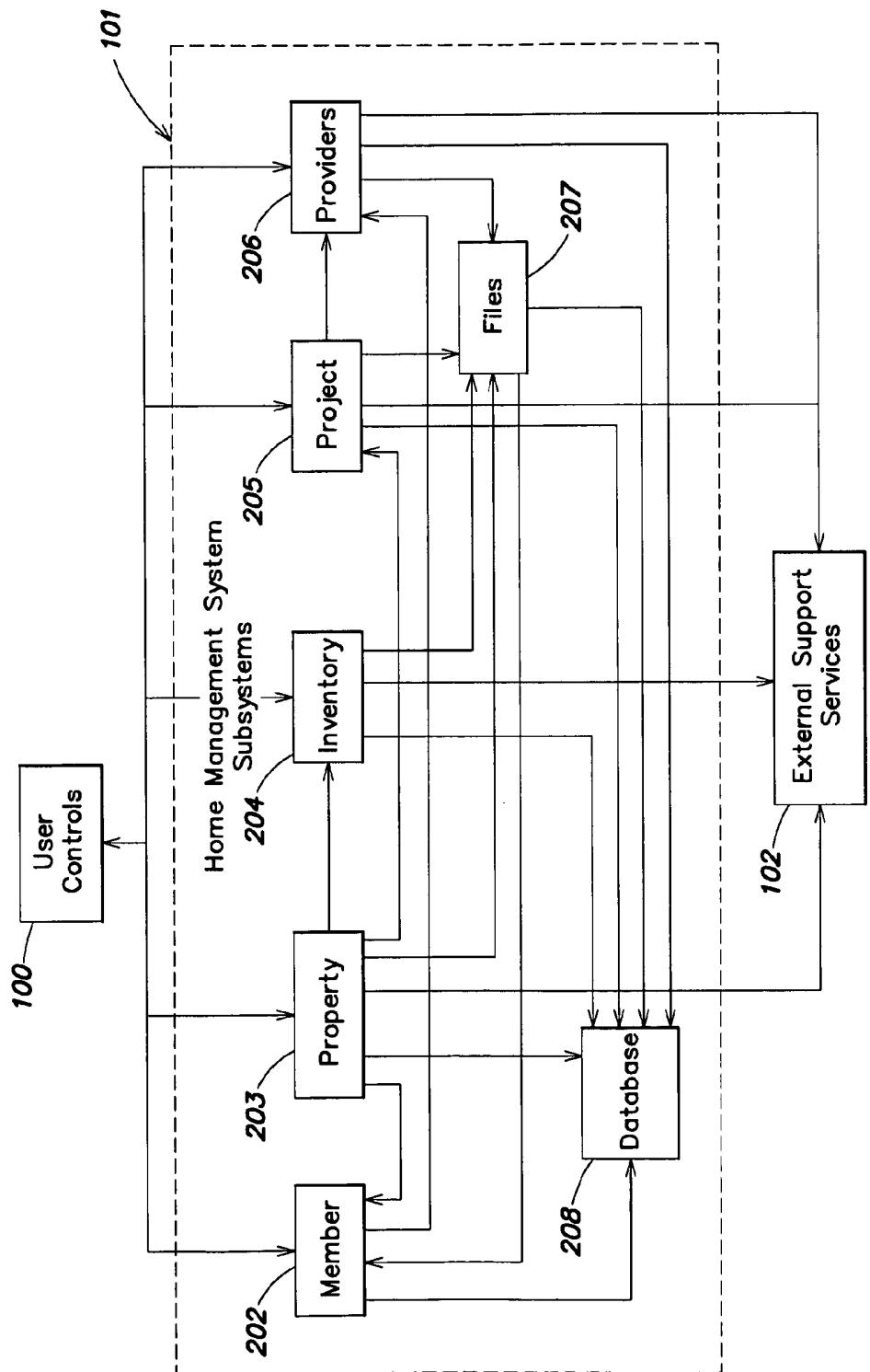


FIG. 2

3/61

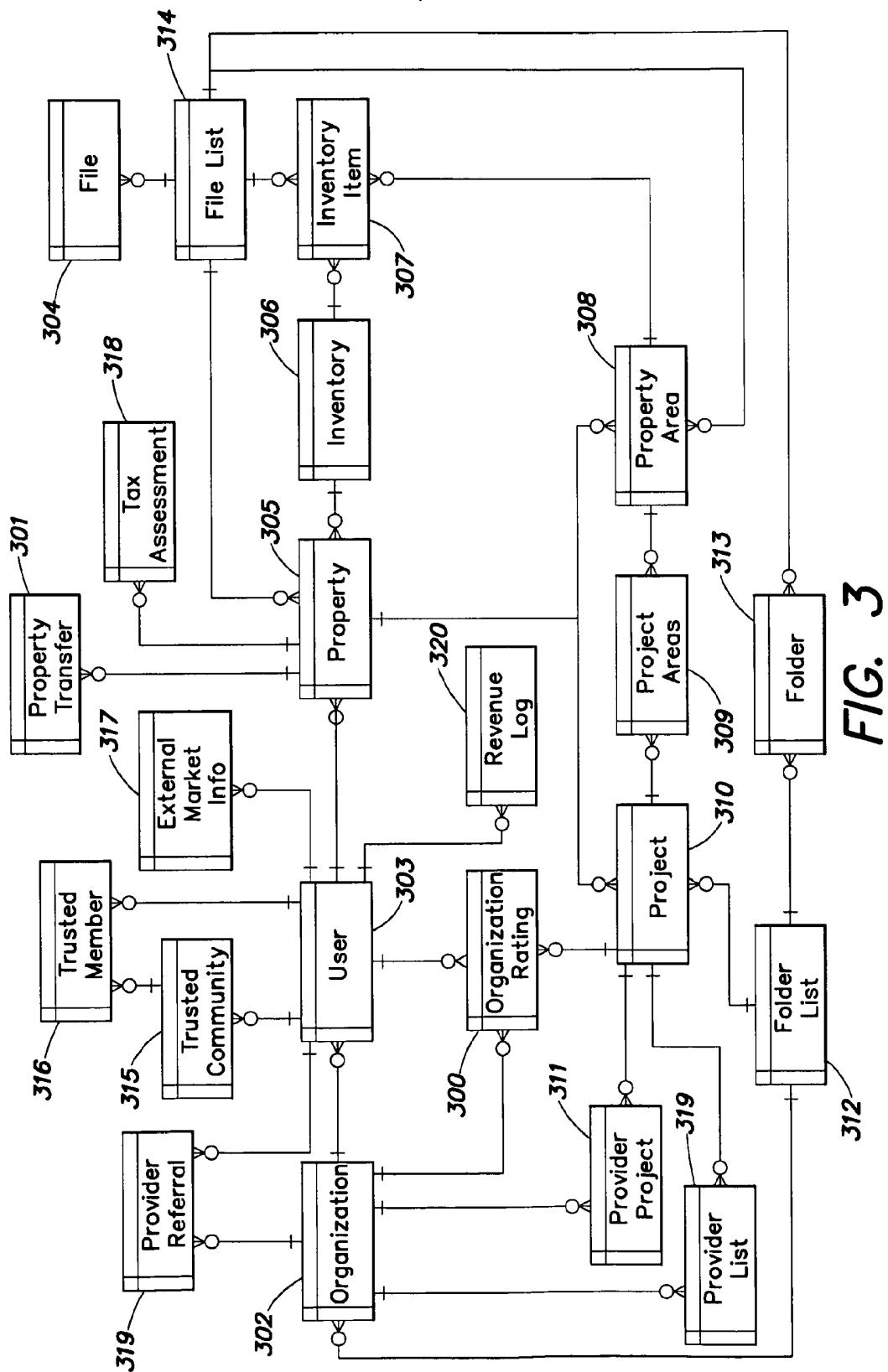


FIG. 3

4/61

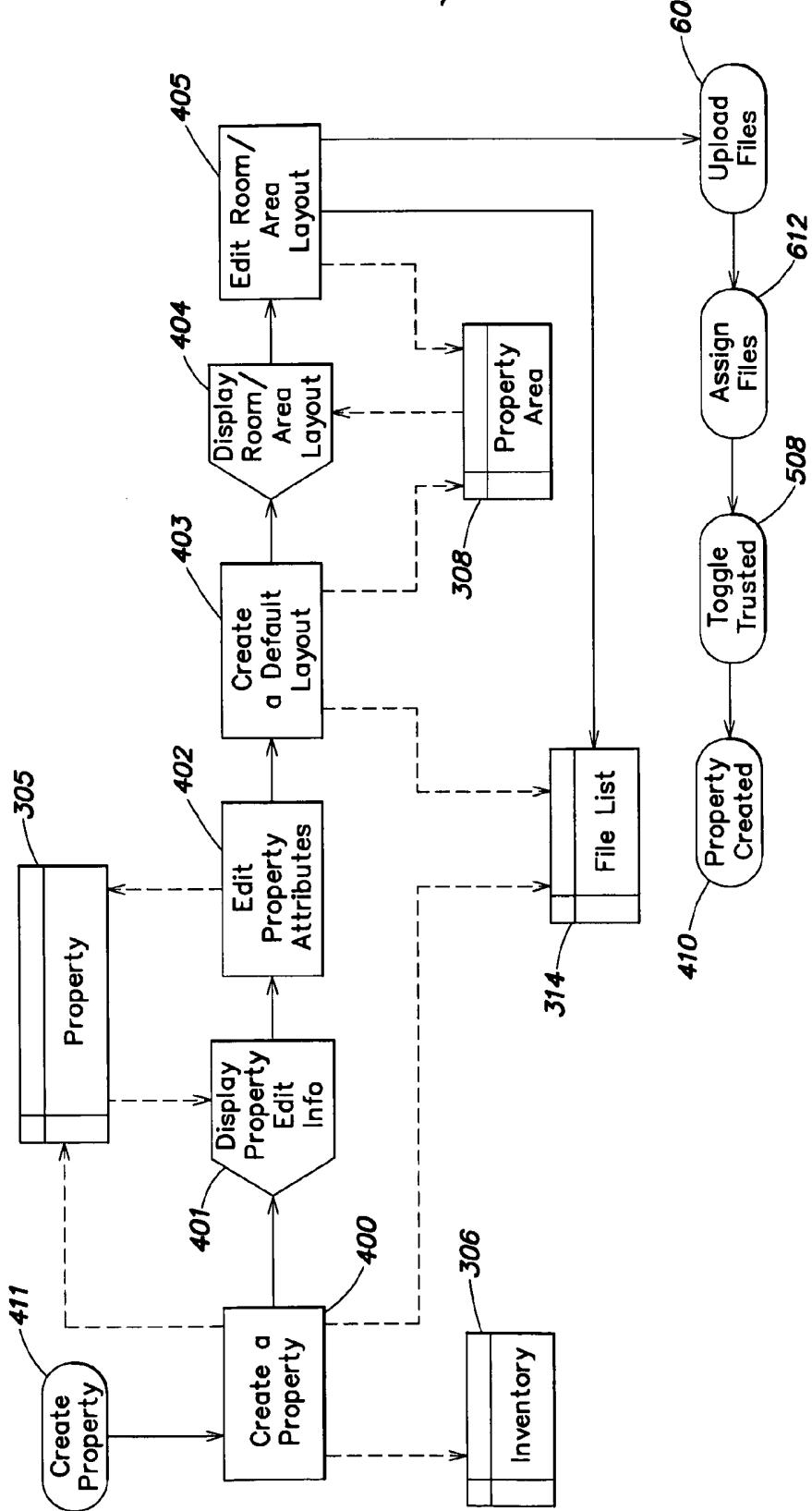


FIG. 4A

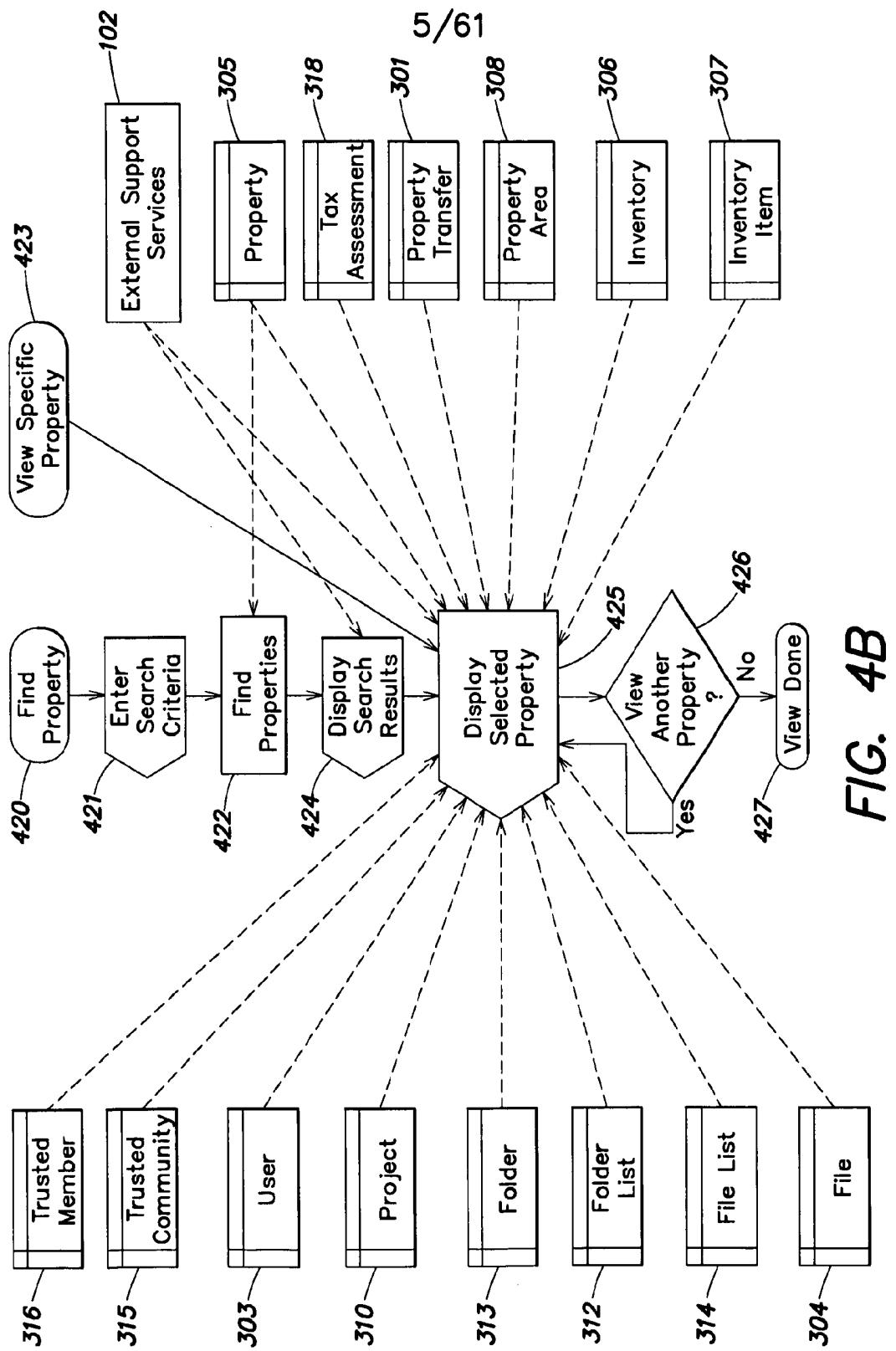


FIG. 4B

6/61

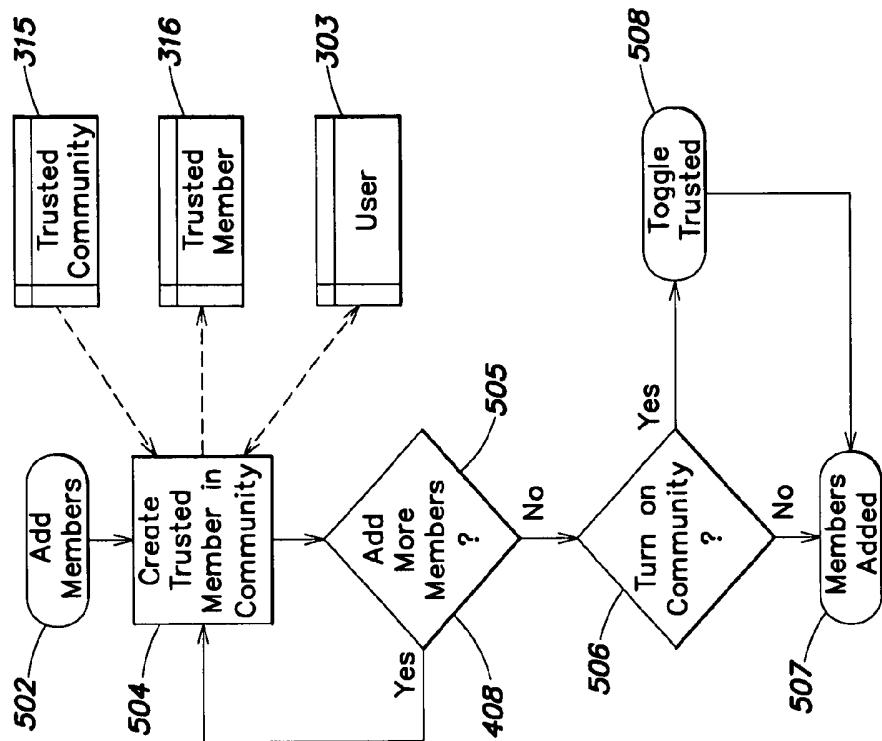


FIG. 5B

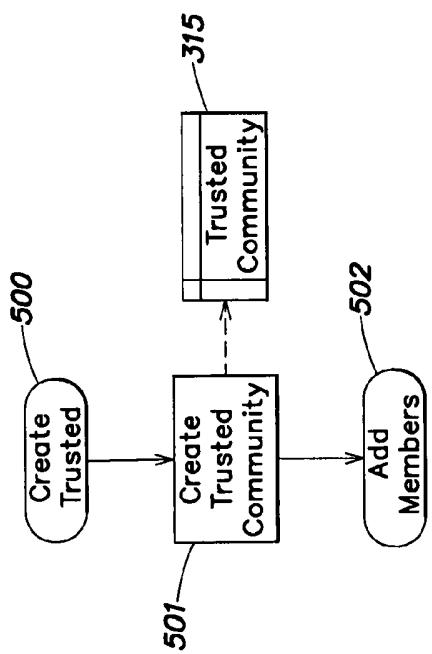


FIG. 5A

7/61

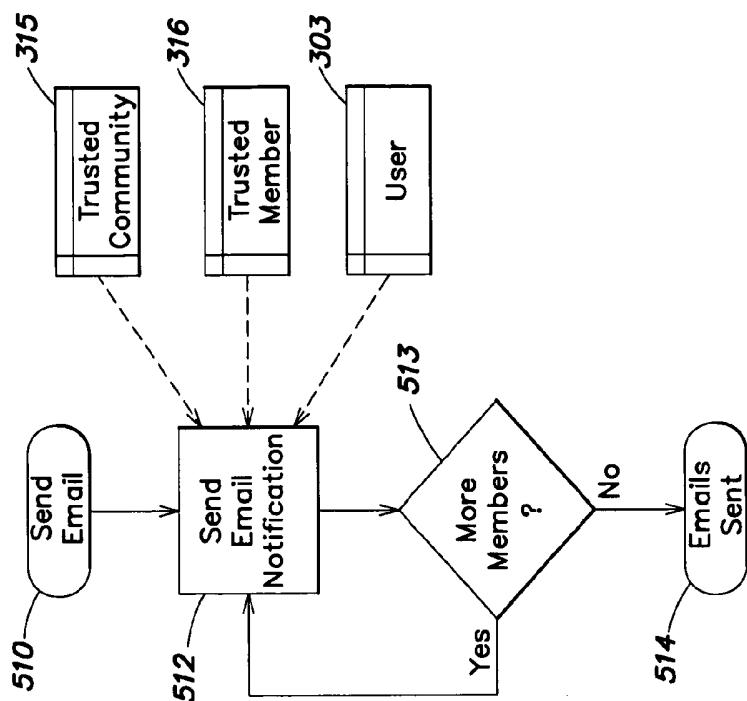


FIG. 5D

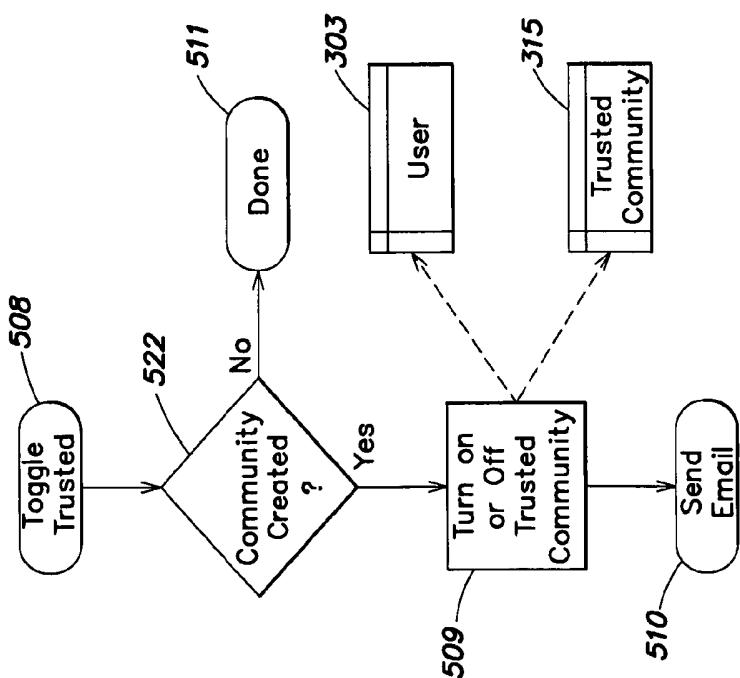


FIG. 5C

8/61

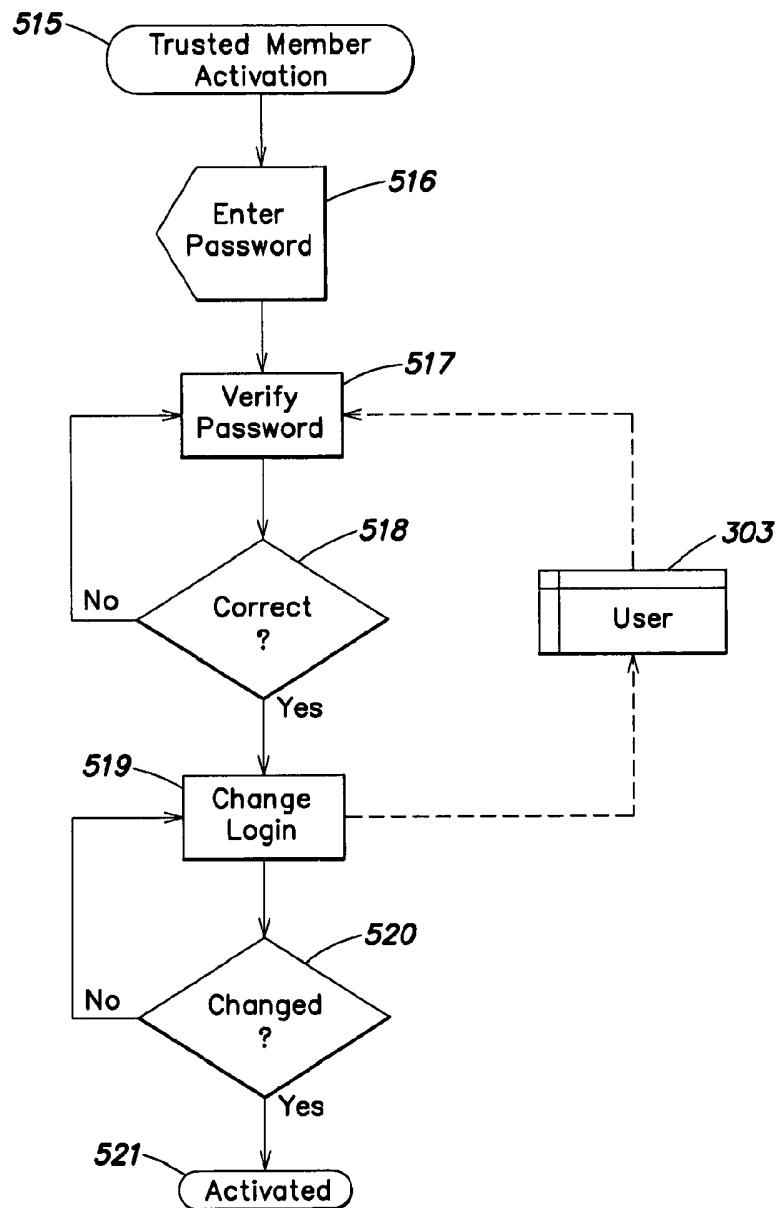


FIG. 5E

9/61

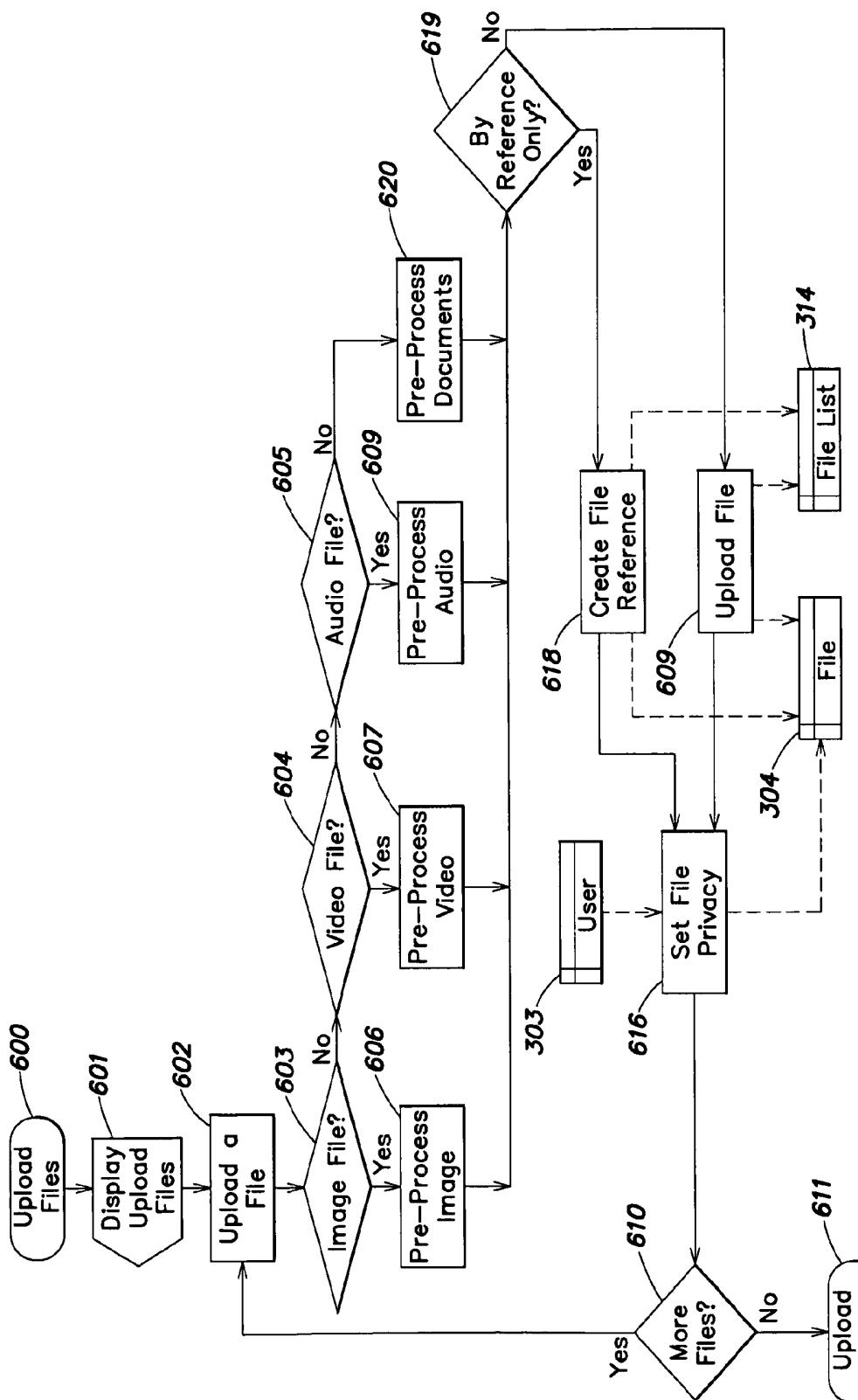


FIG. 6A

10/61

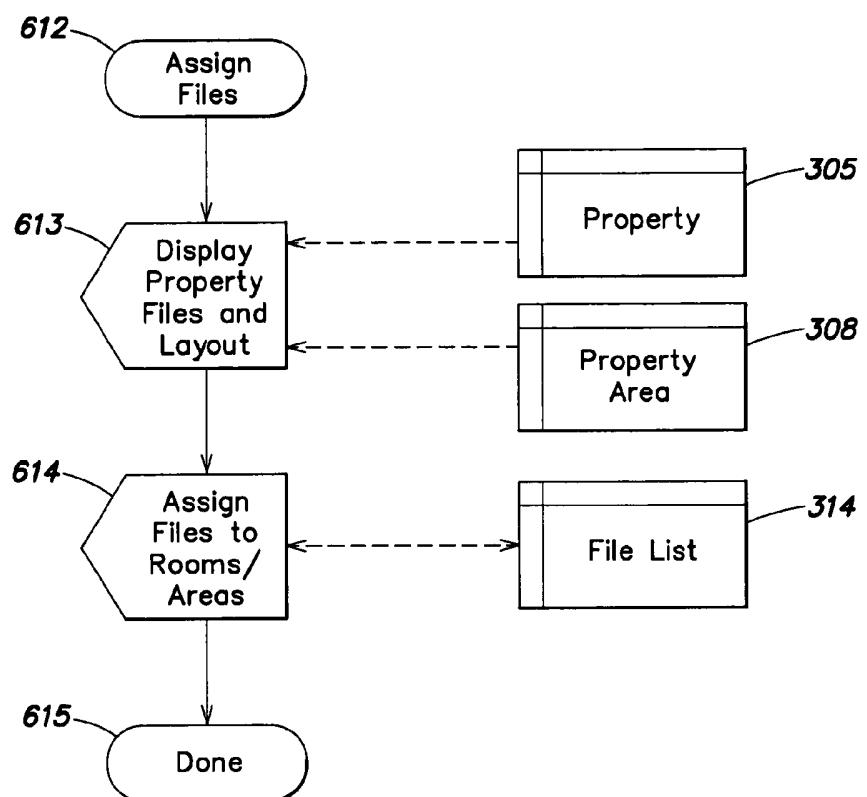


FIG. 6B

11/61

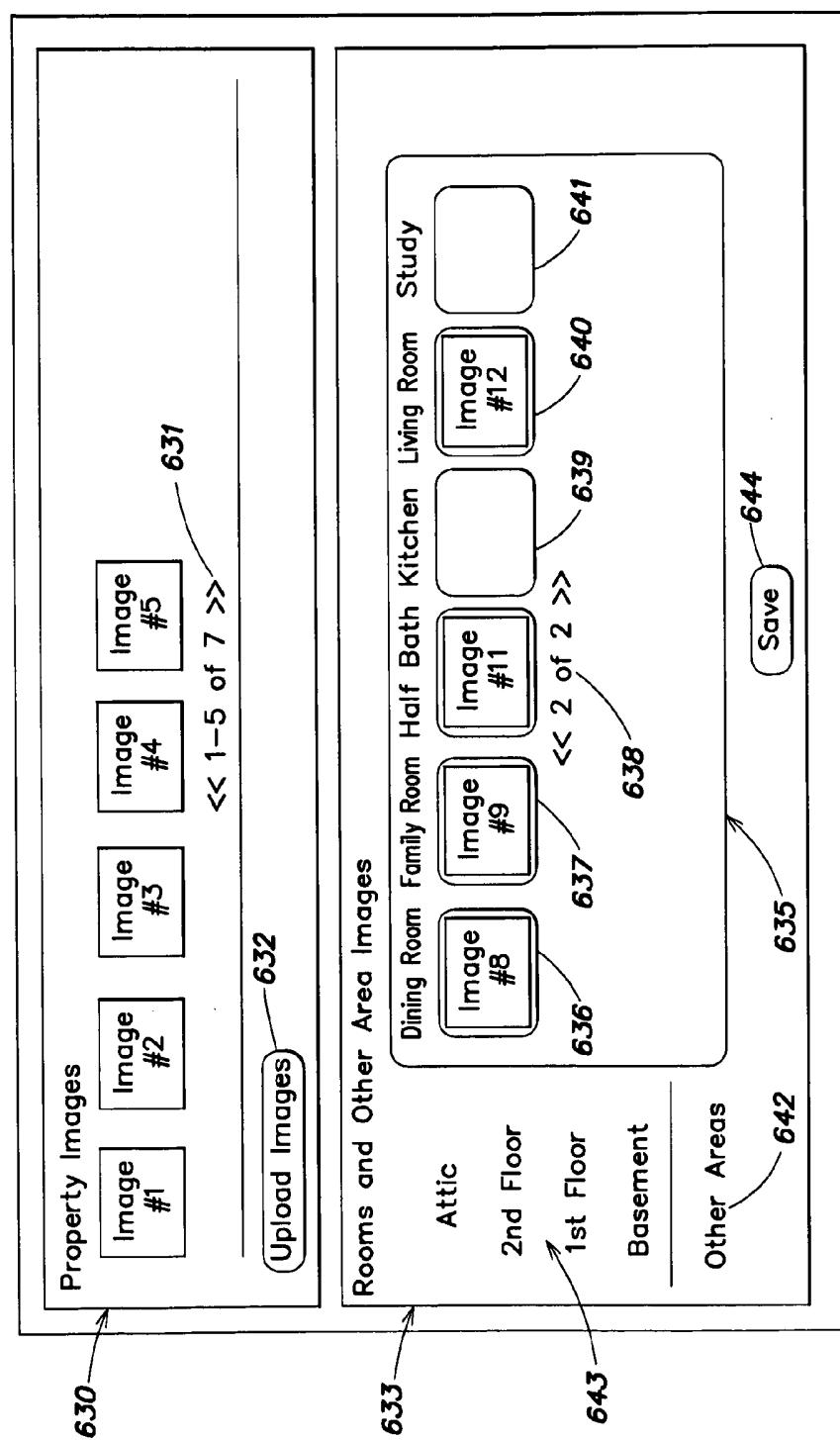


FIG. 6C

12/61

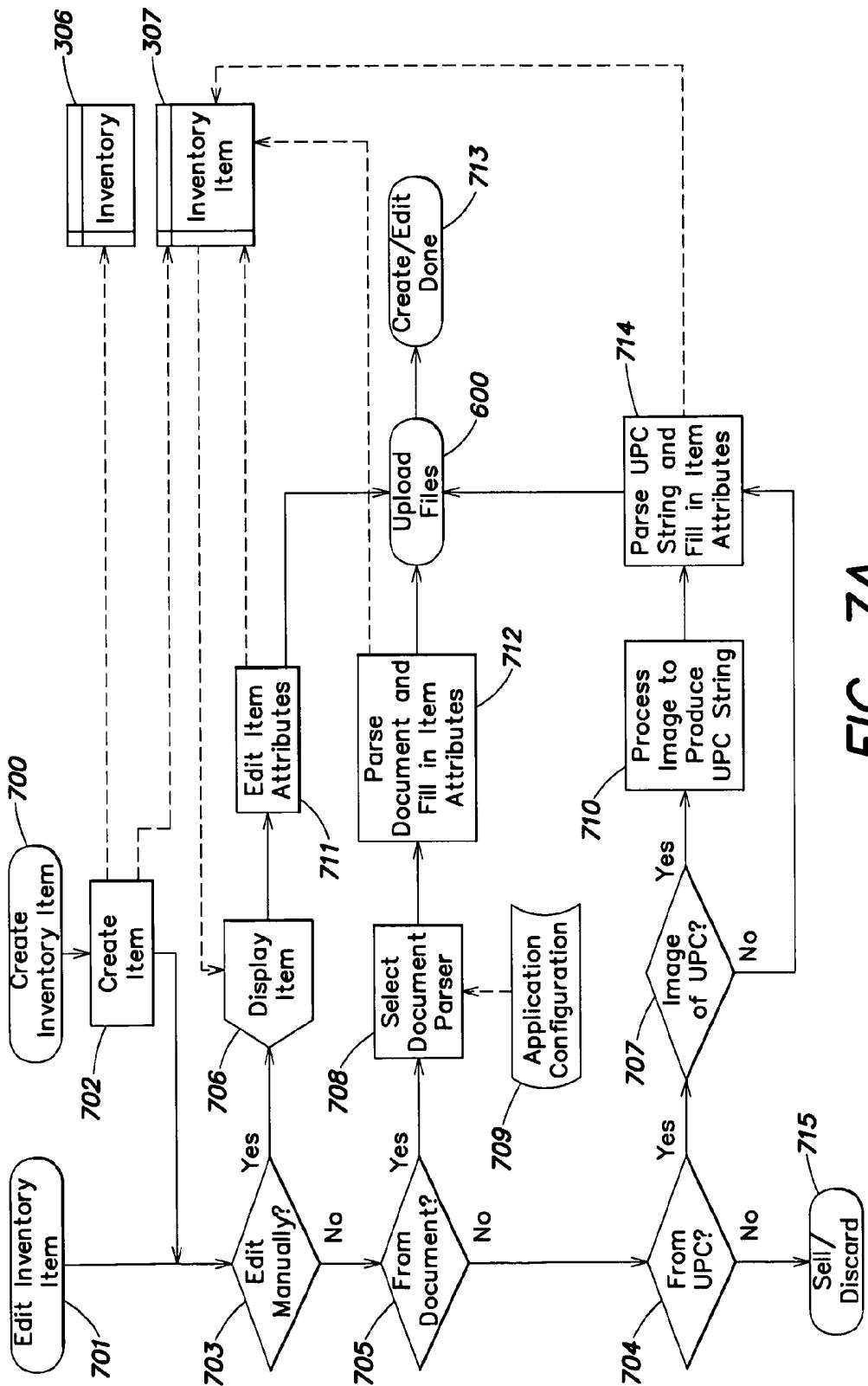


FIG. 7A

13/61

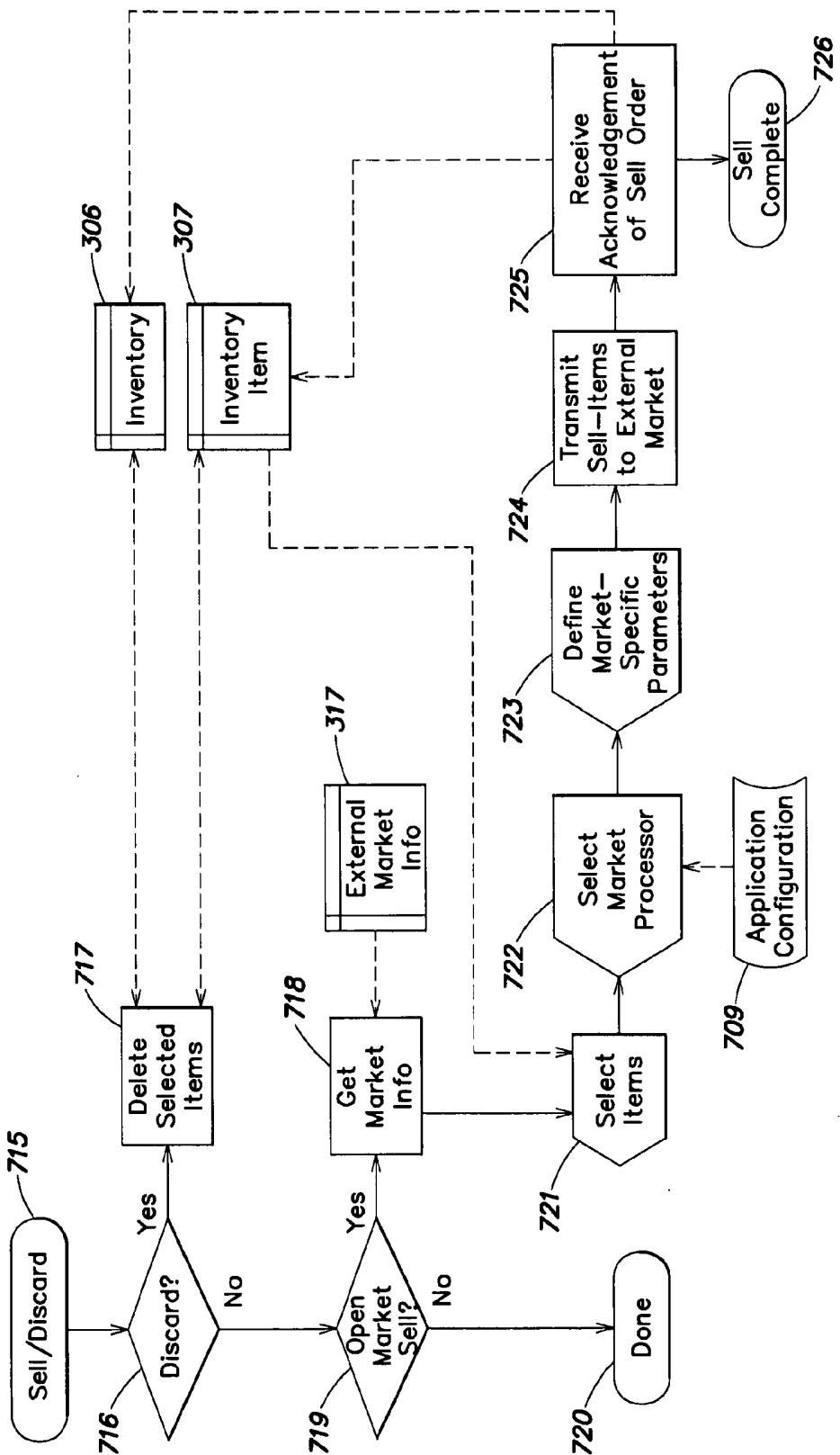


FIG. 7B

14/61

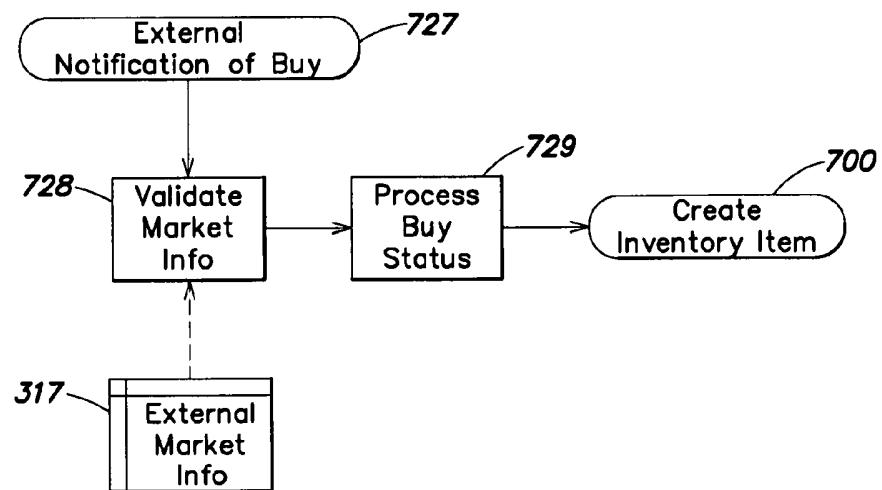


FIG. 7C

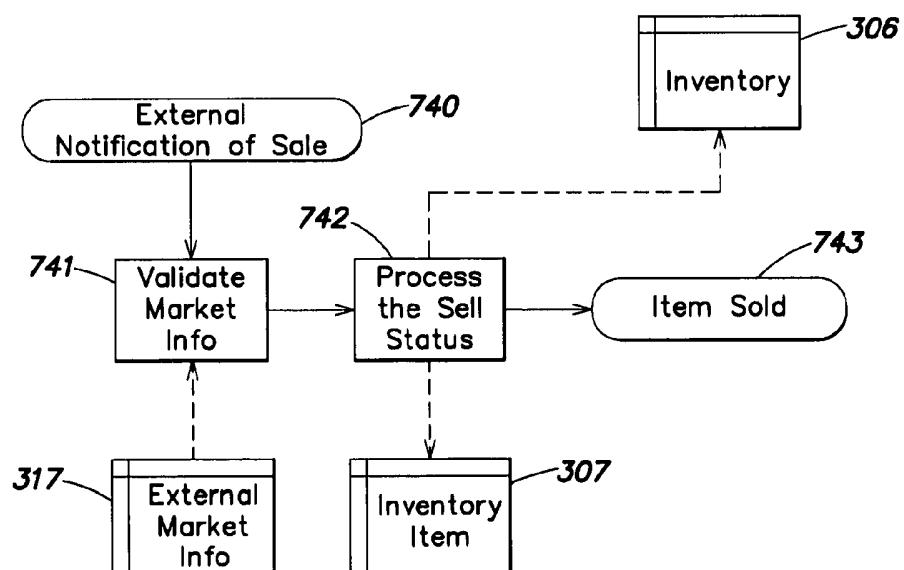


FIG. 7D

15/61

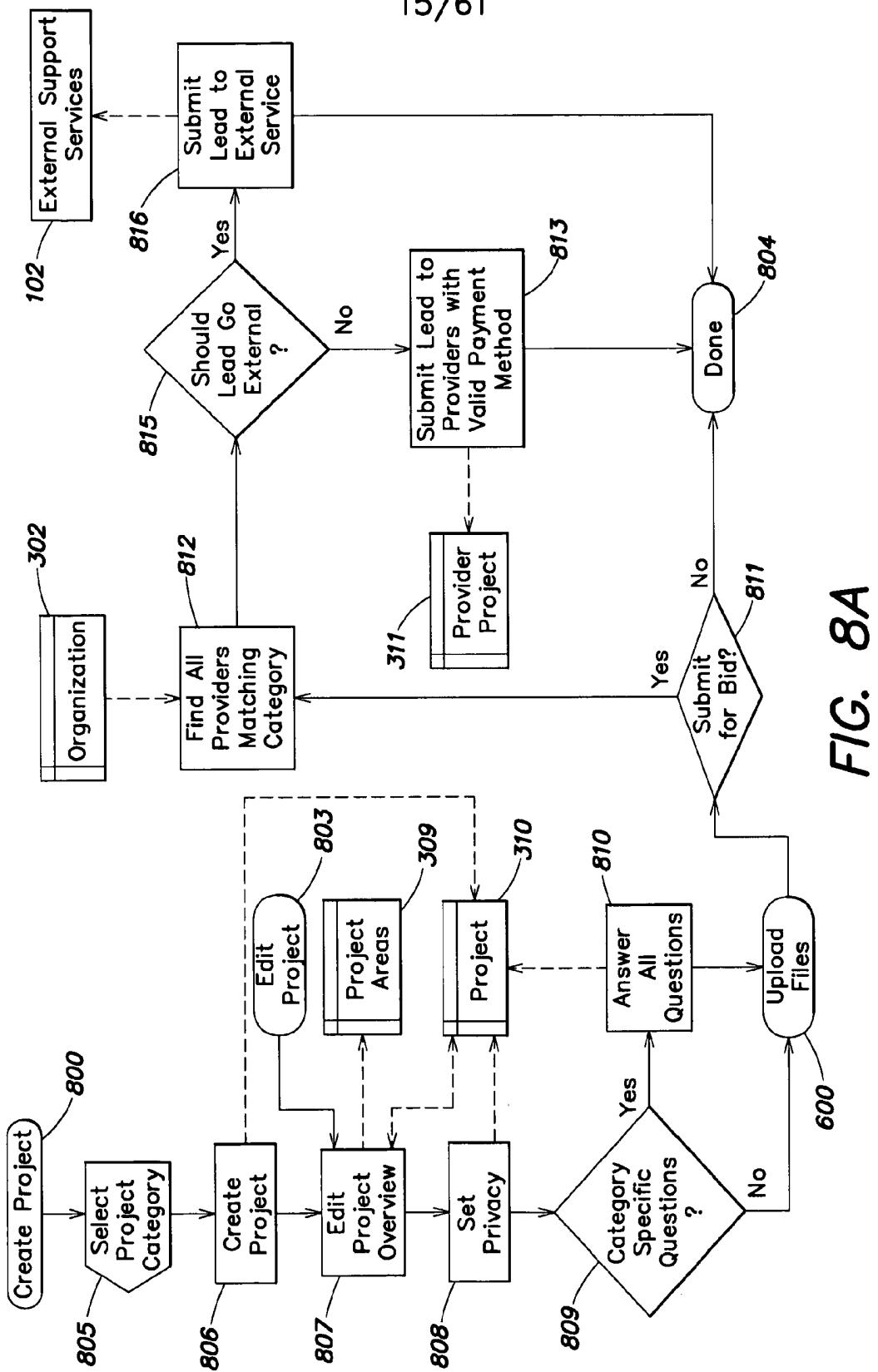


FIG. 8A

16/61

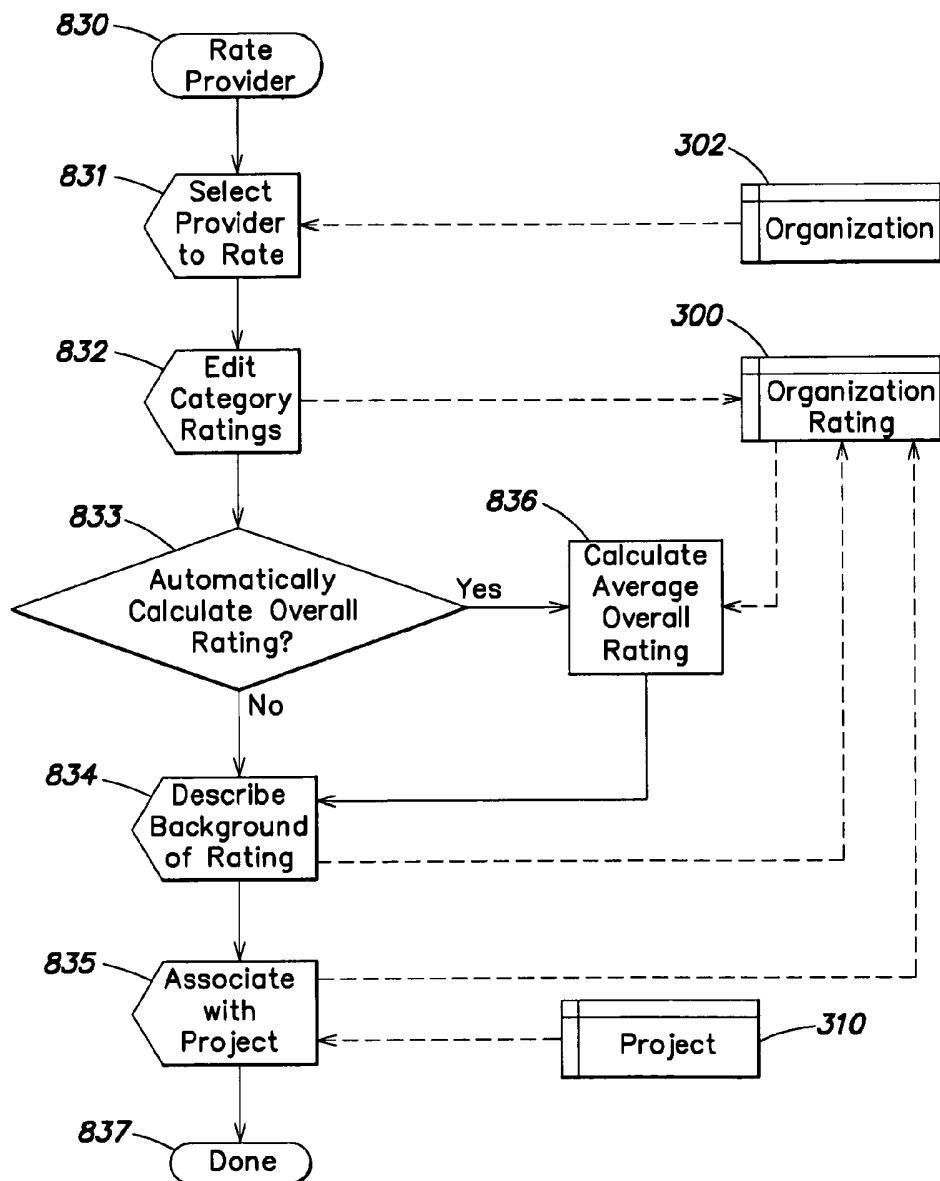


FIG. 8B

17/61

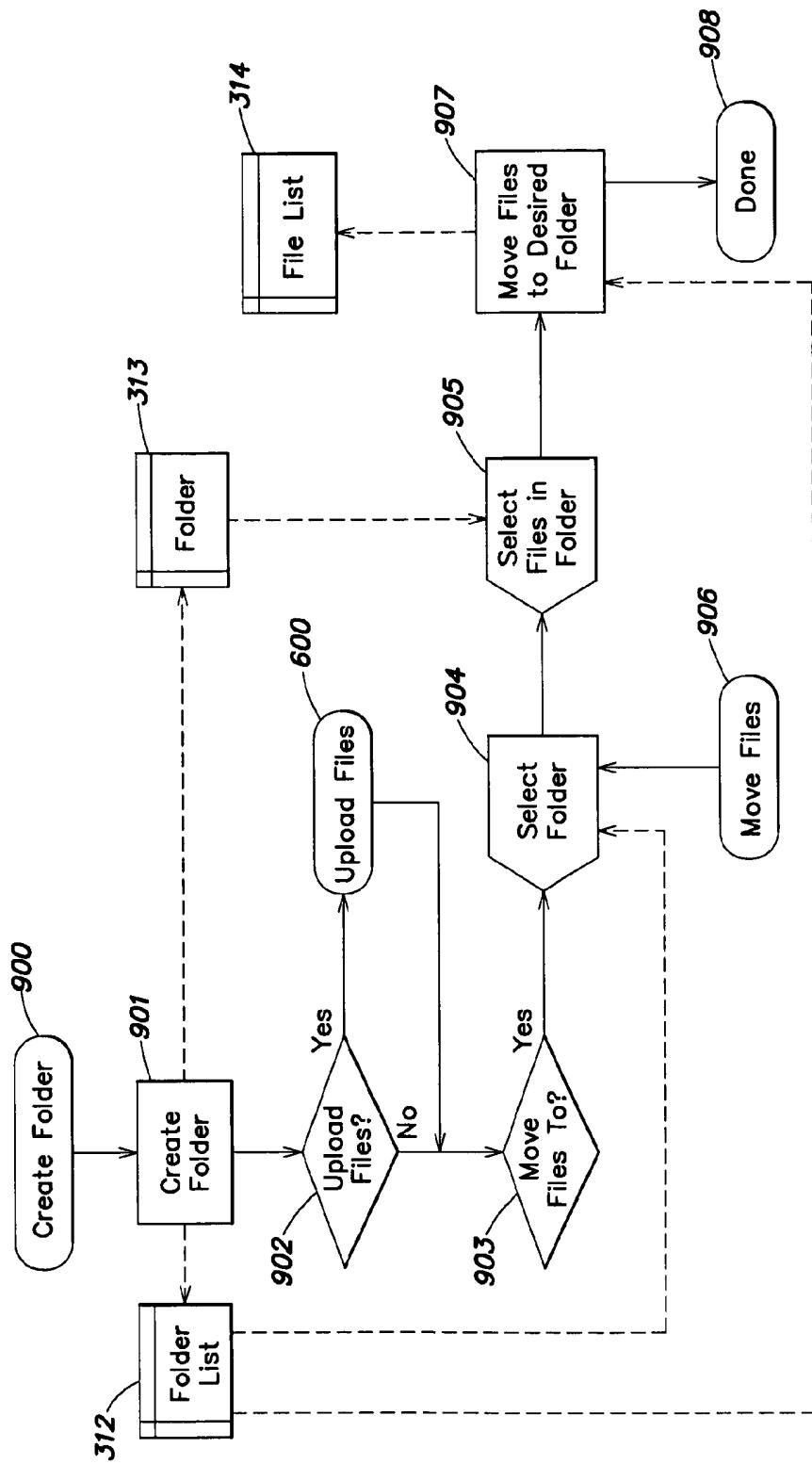


FIG. 9

18/61

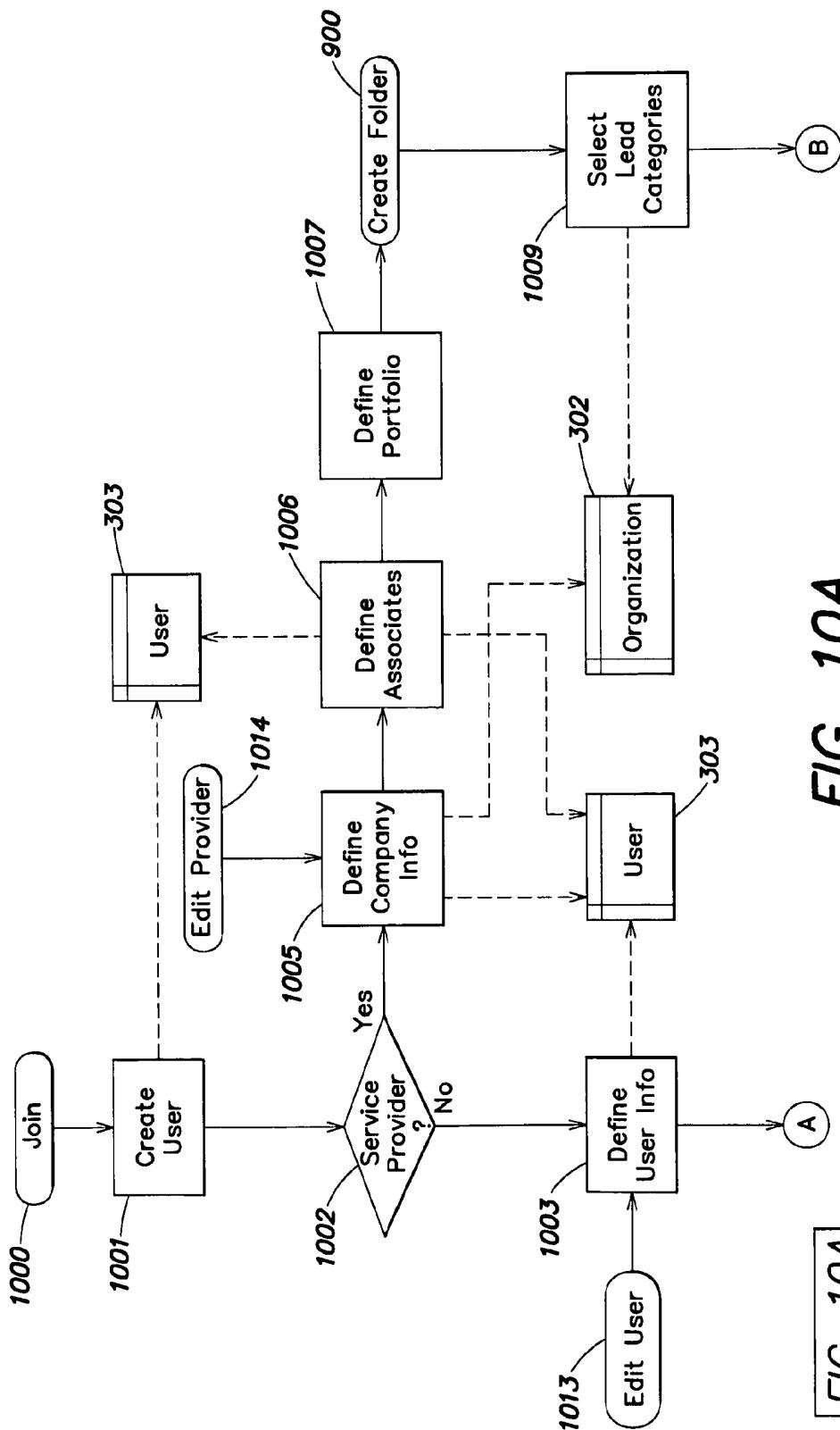


FIG. 10A

FIG. 10A *FIG. 10B*

19/61

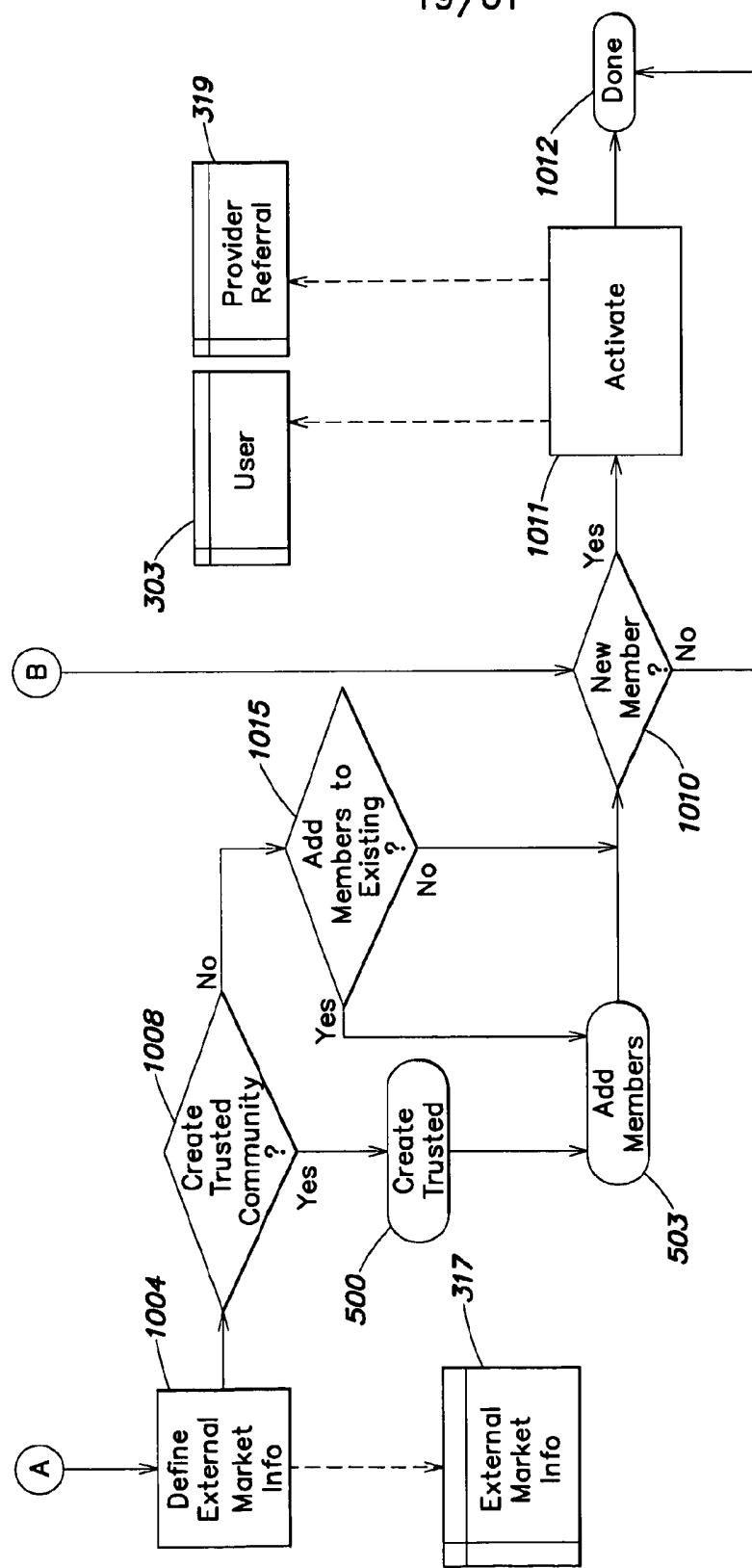


FIG. 10B

20/61

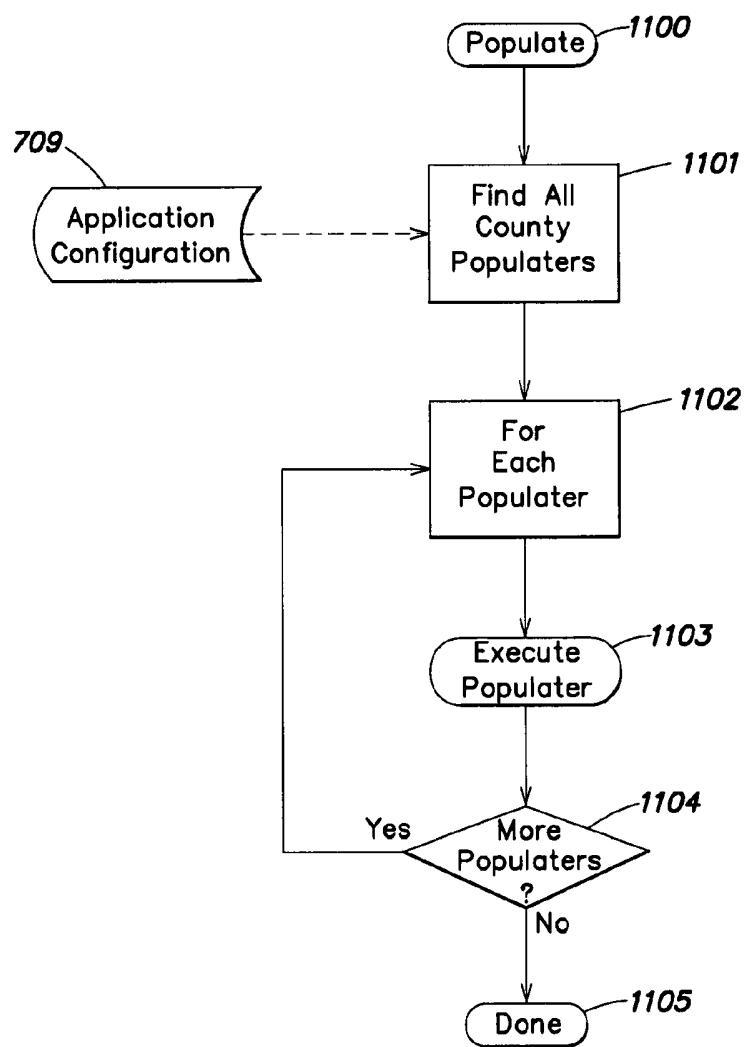


FIG. 11A

21/61

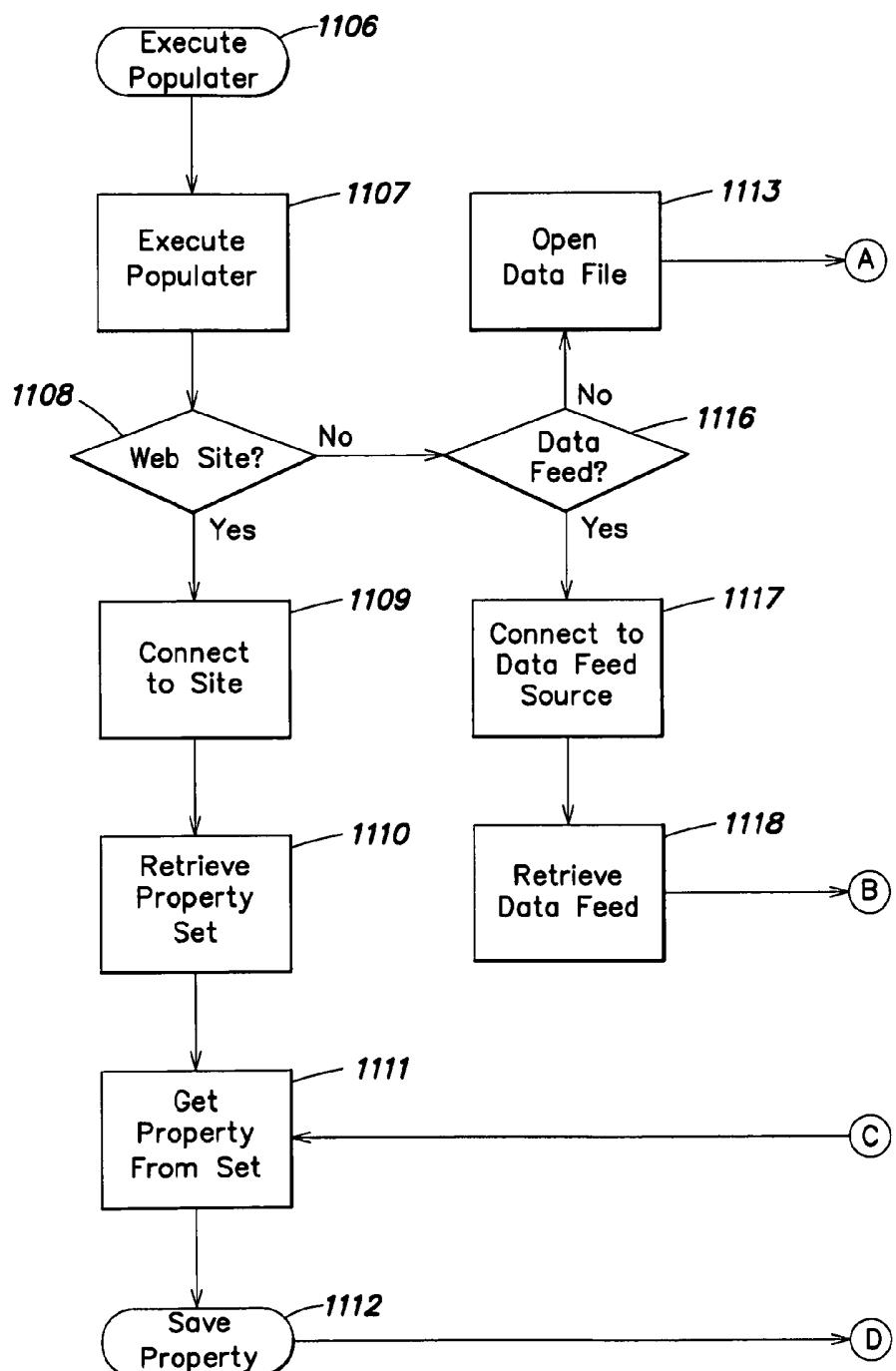


FIG. 11B

FIG. 11B

FIG. 11C

22/61

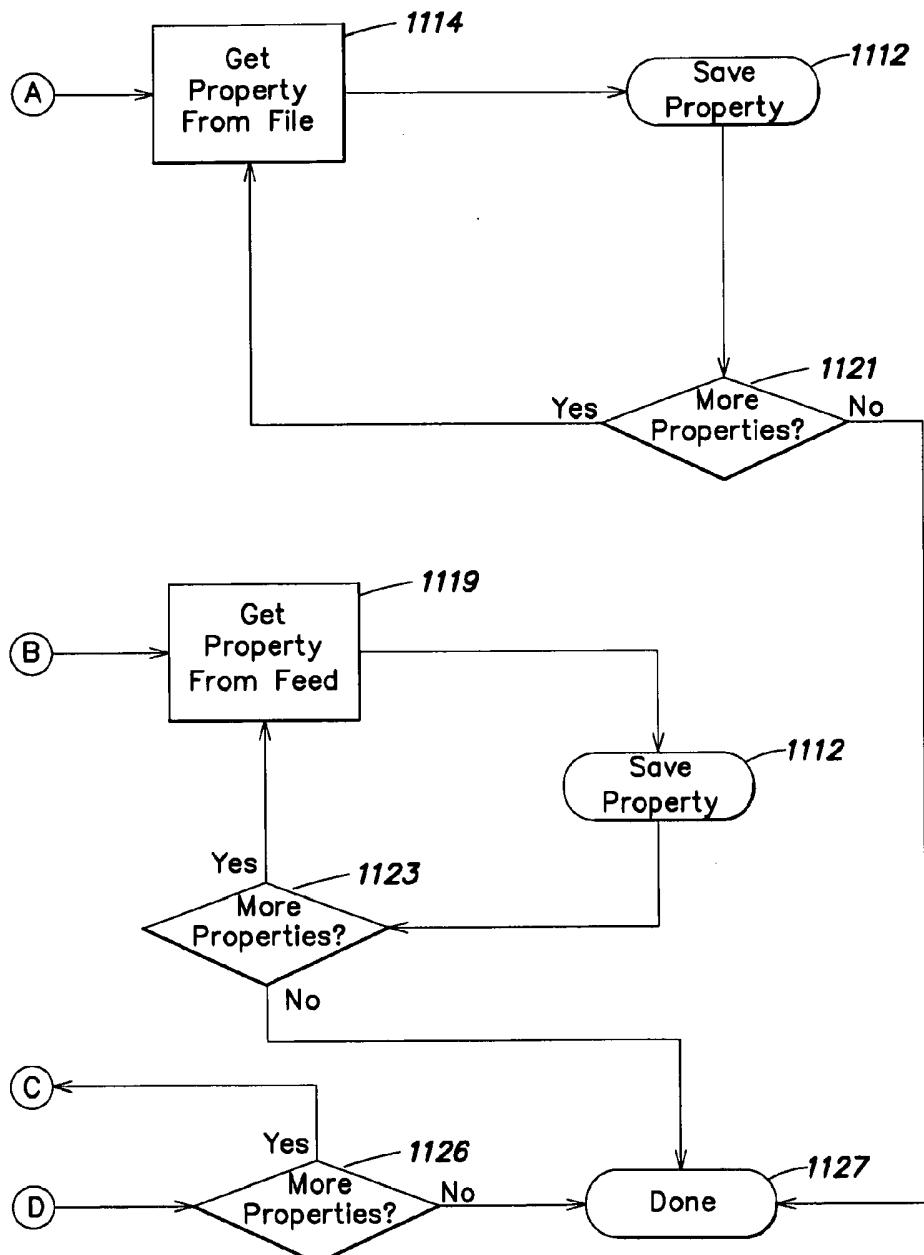


FIG. 11C

23/61

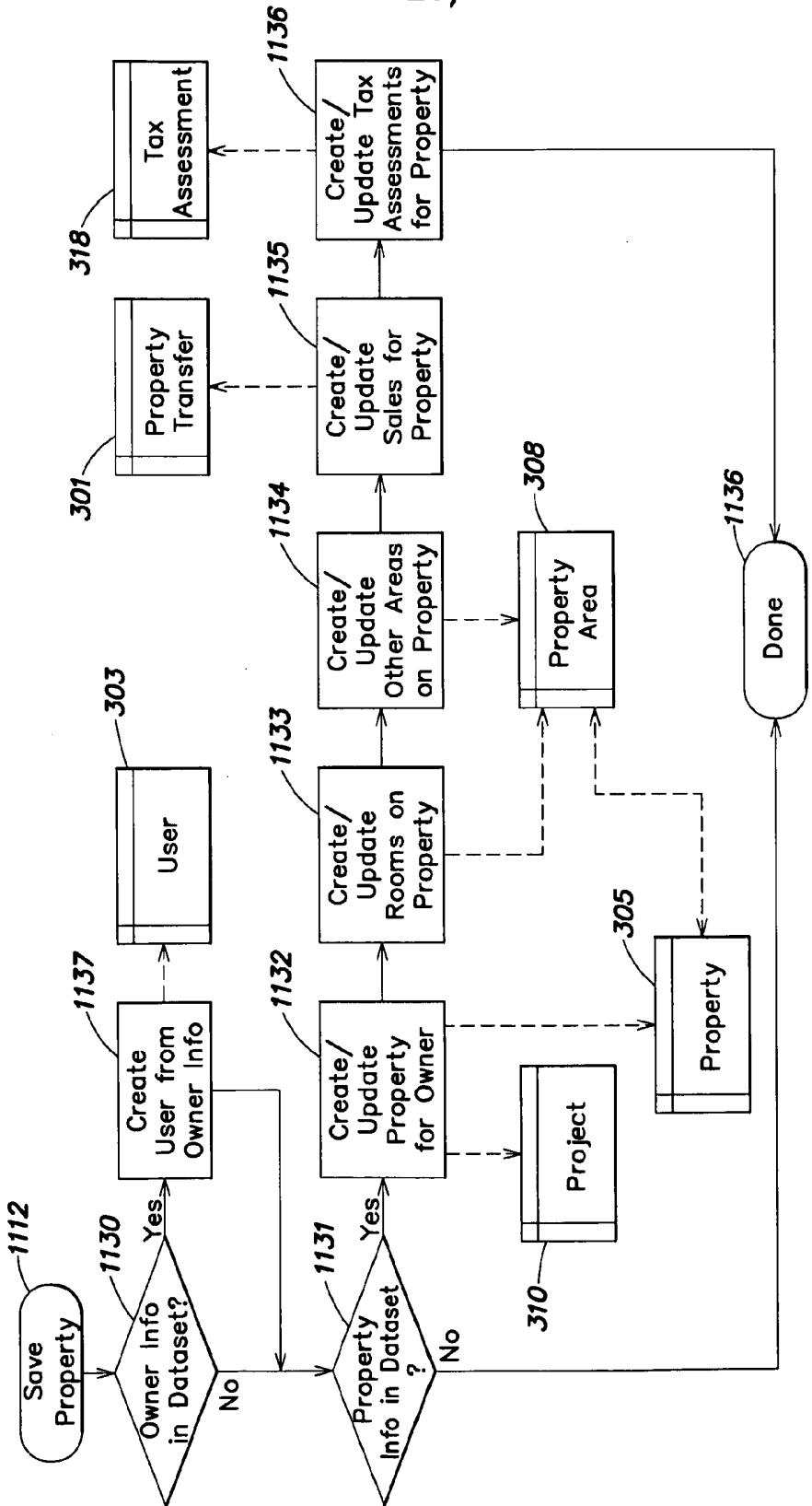
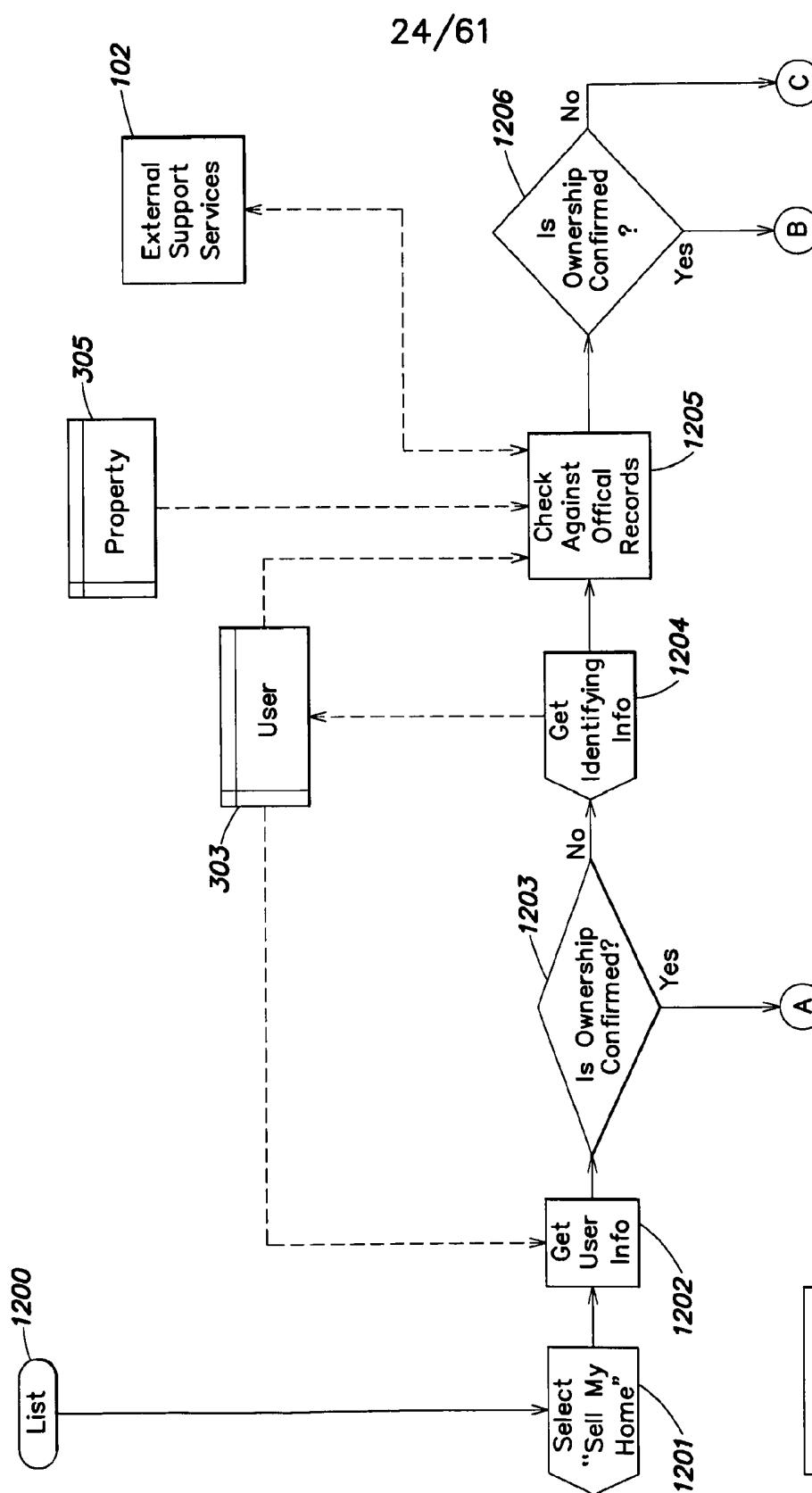


FIG. 11D



25/61

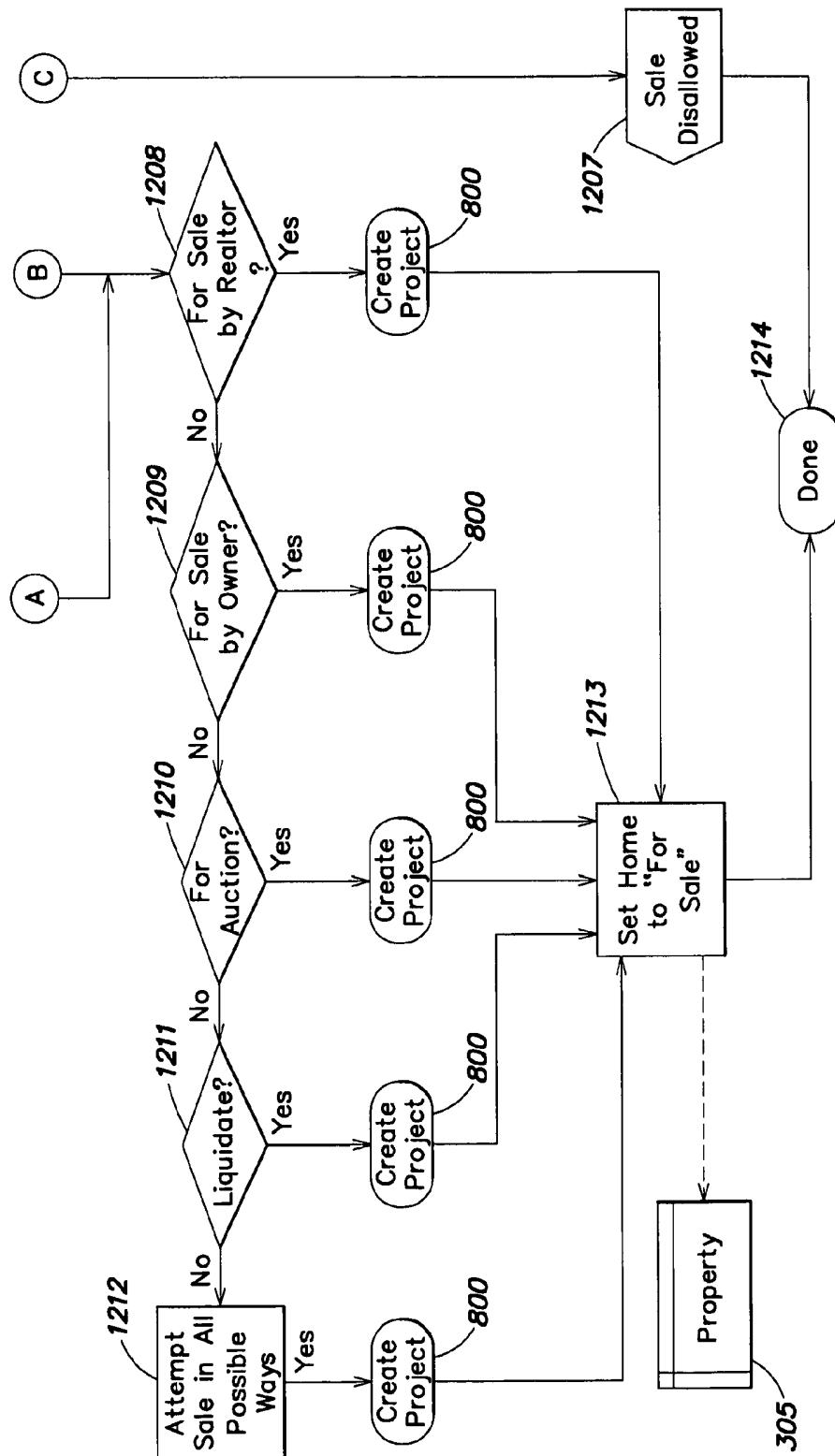


FIG. 12B

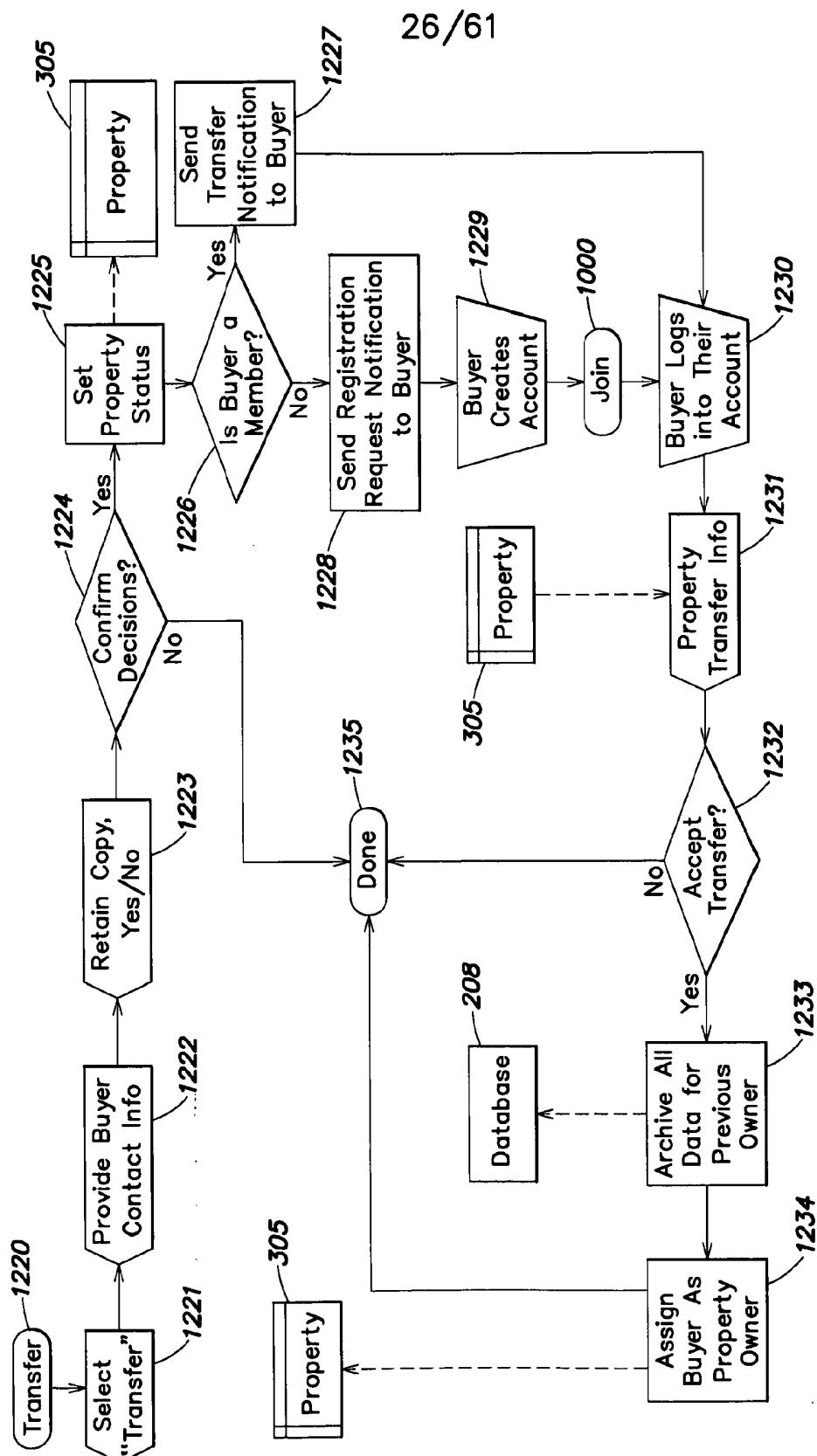


FIG. 12C

27/61

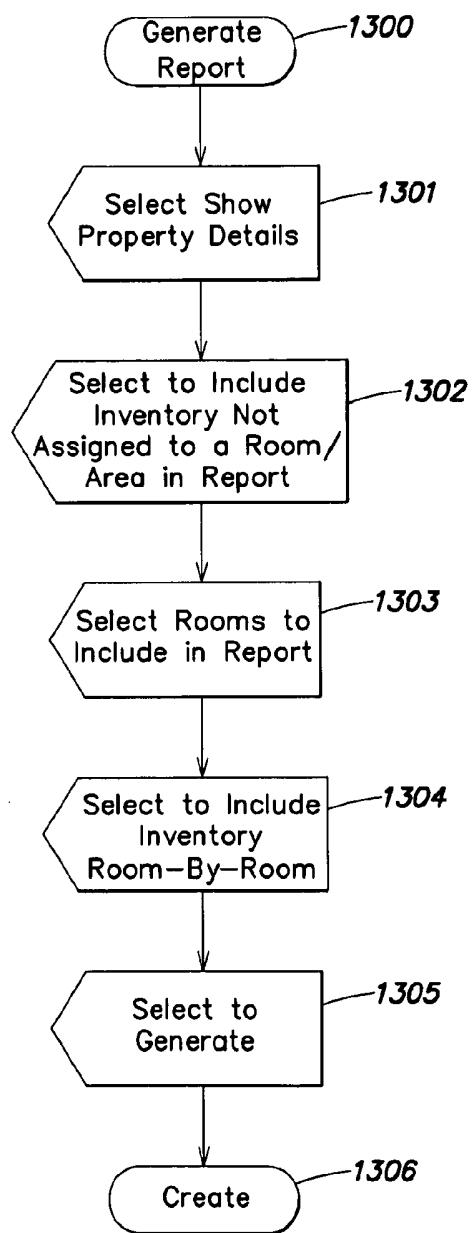
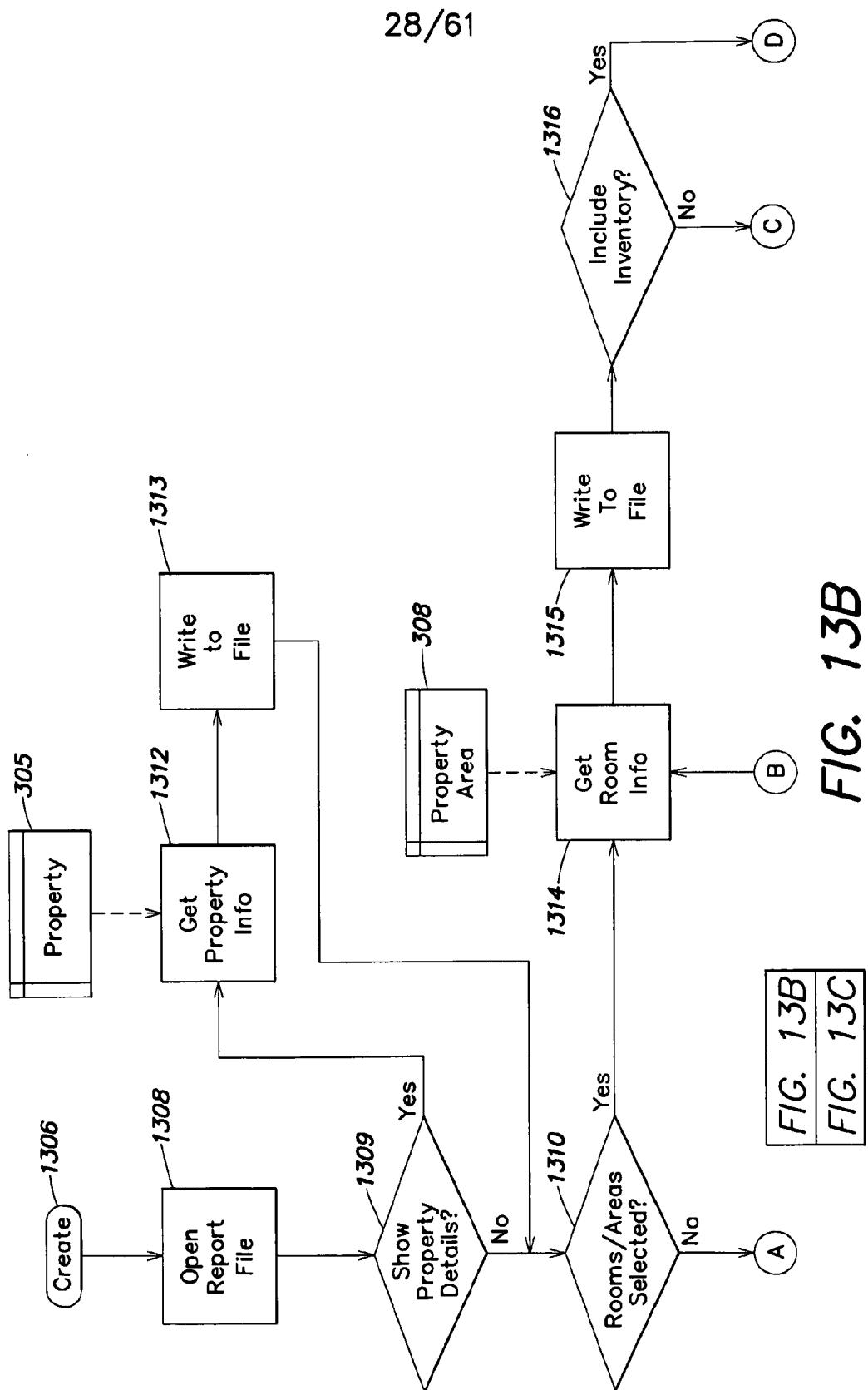


FIG. 13A



29 / 61

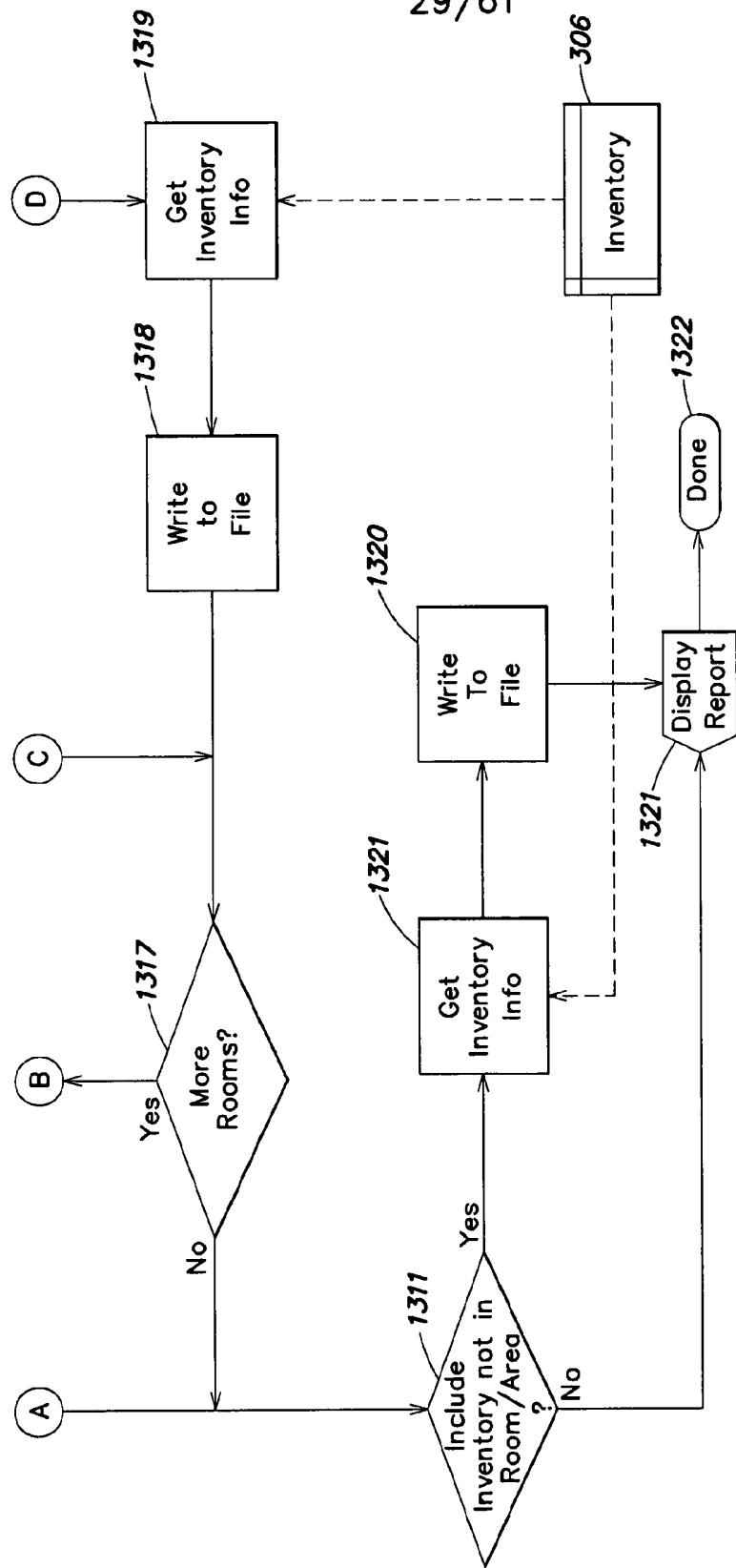


FIG. 13C

30/61

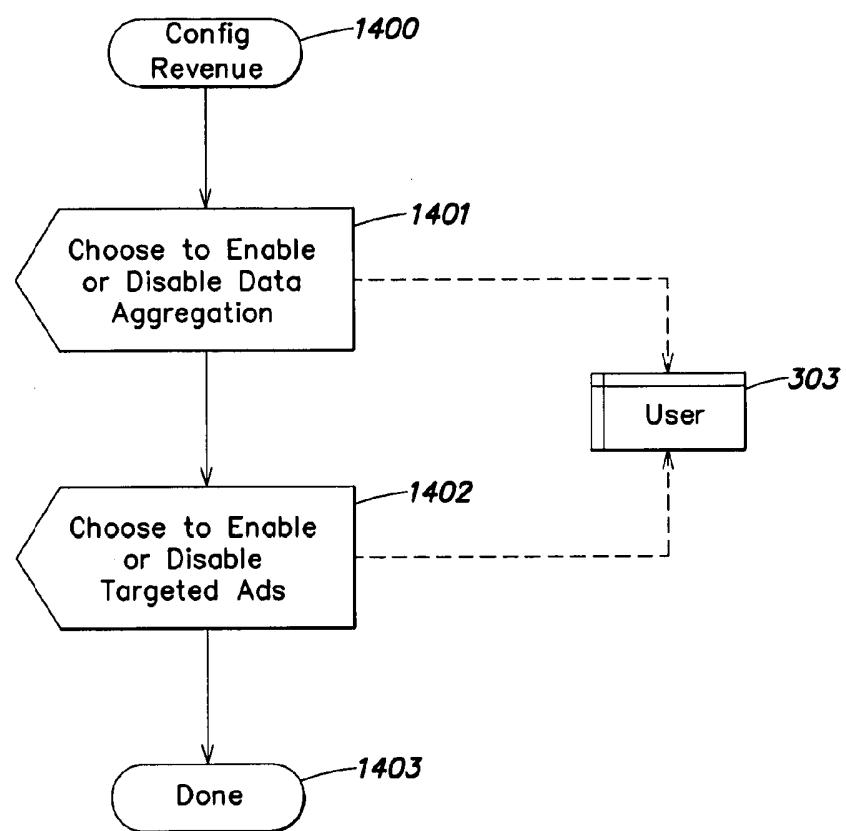


FIG. 14A

31/61

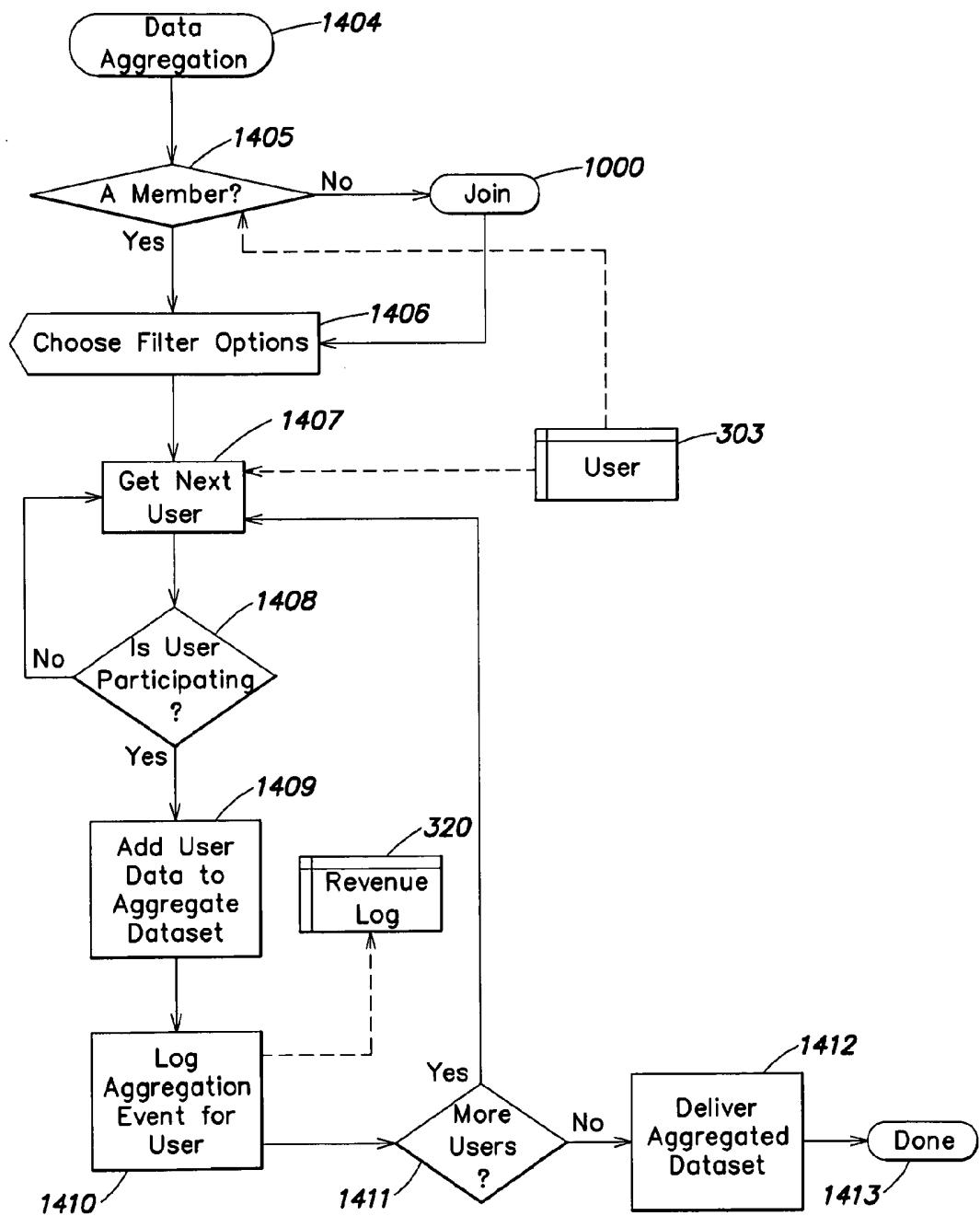


FIG. 14B

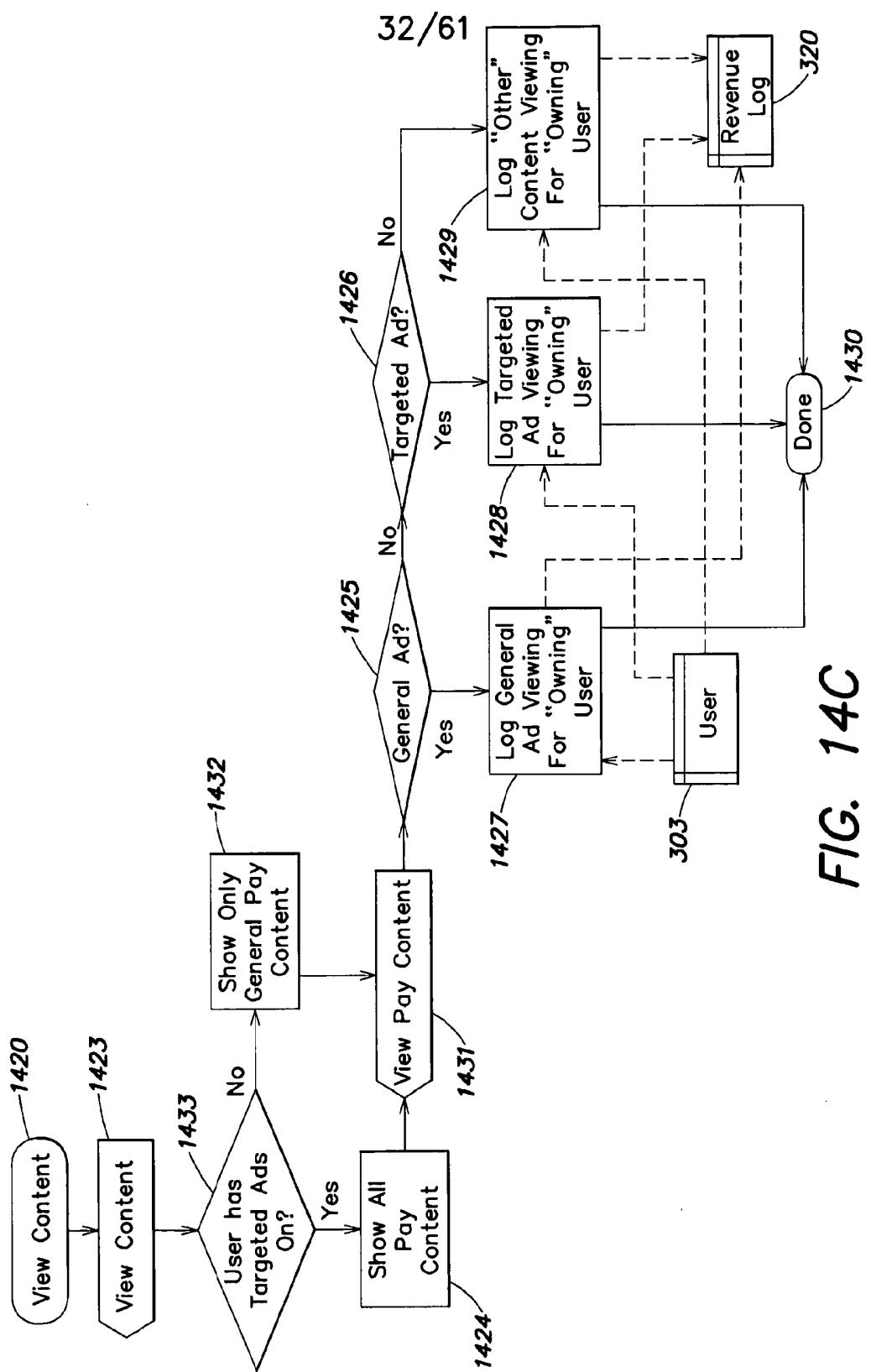


FIG. 14C

33/61

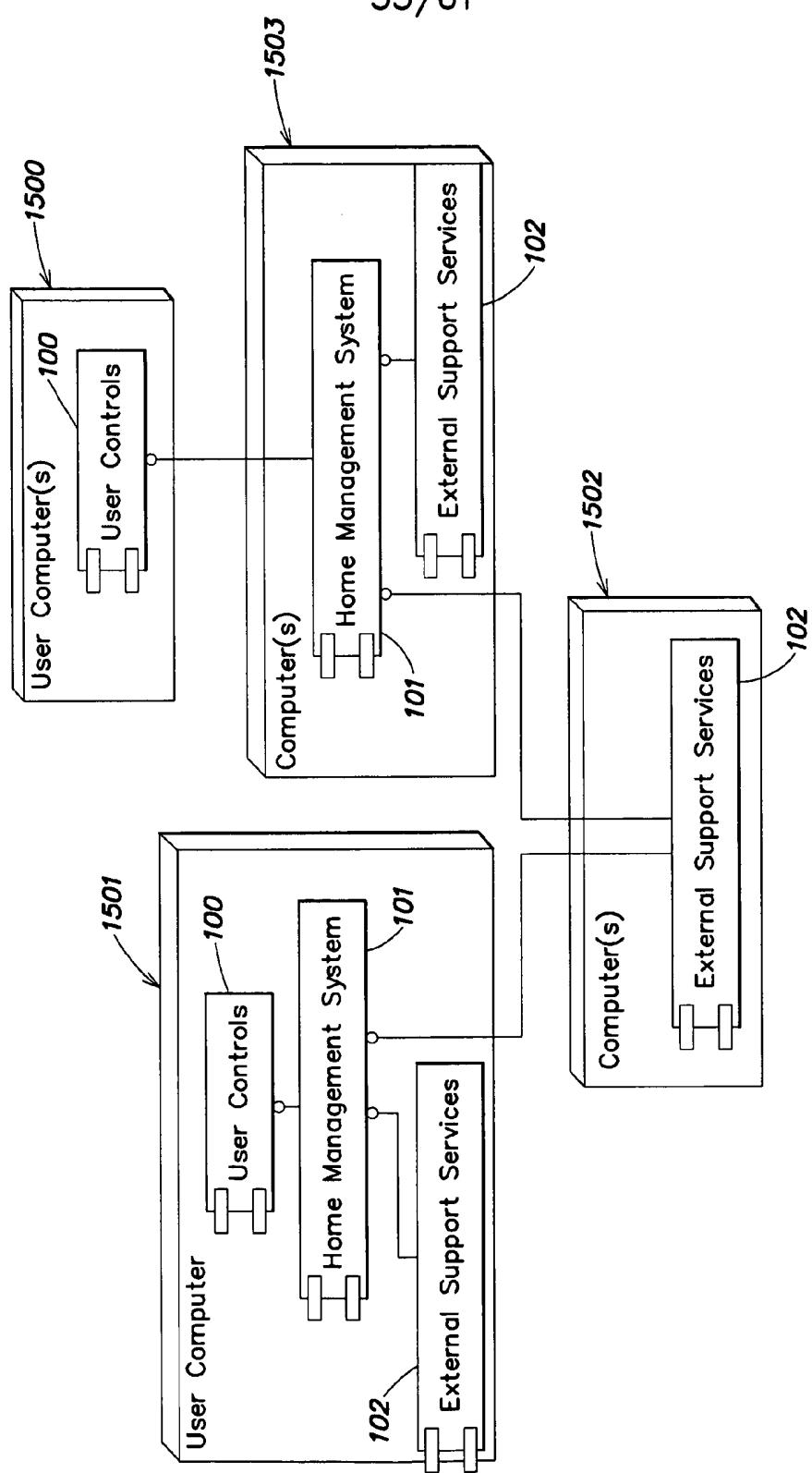


FIG. 15A

34/61

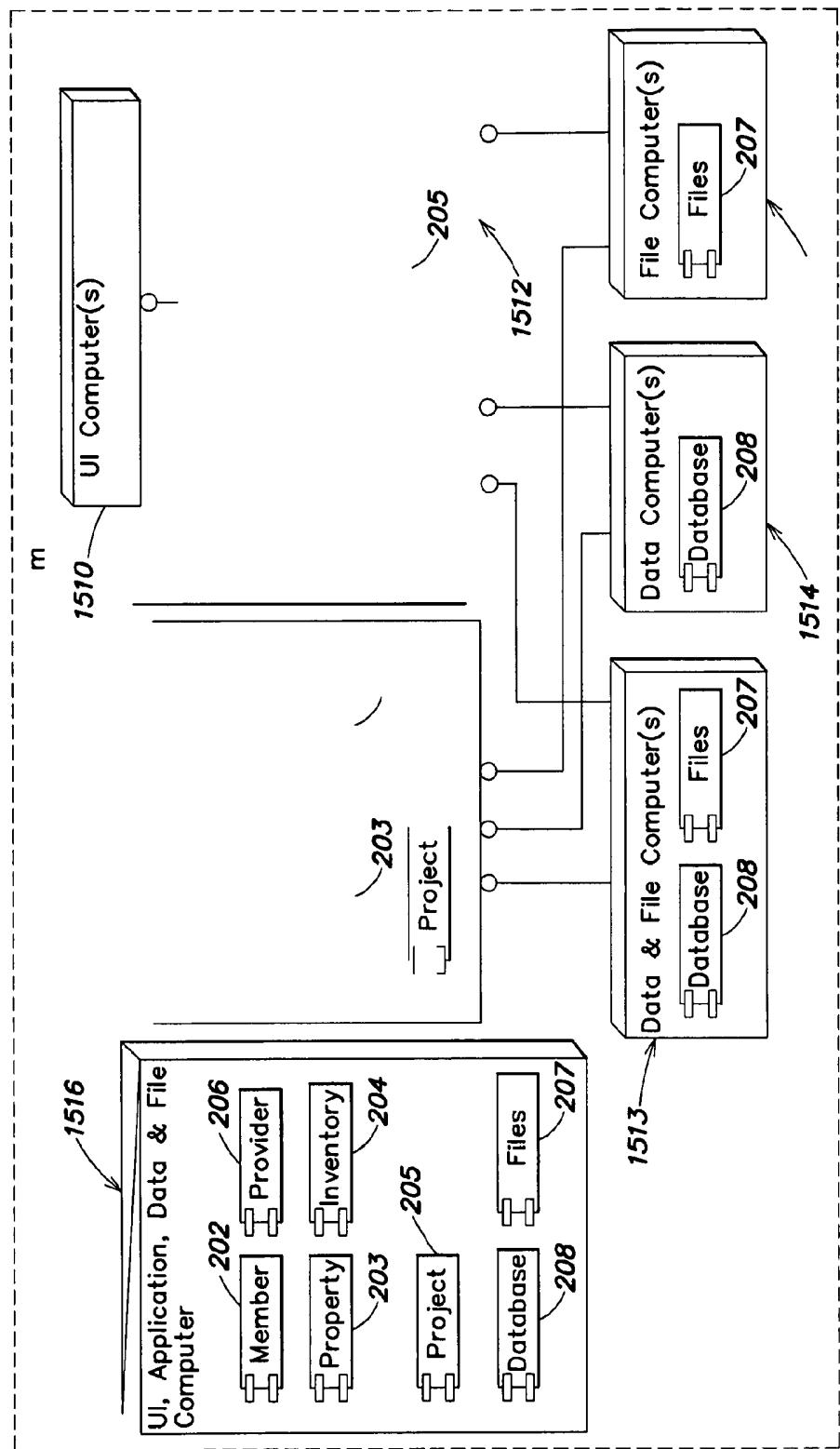
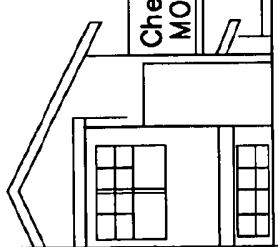
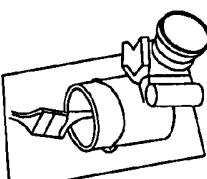
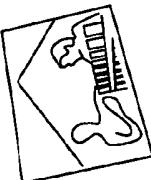
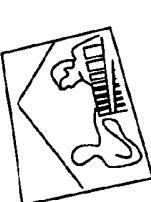
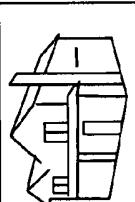


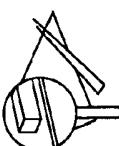
FIG. 15B

35/61

My Homes > Find a Home Providers > Forums

Publish Your Home!  **Manage Home Inventory & Projects!**  **Check out the MODEL HOME!** 

Network with Homeowners  **Want to know more?** **START NOW!** 

Find Homes **Primary Street Address** **City** **State** **Zip Code**  **Show Homes** **More Options**

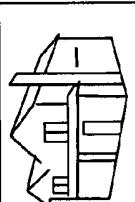
Featured Profiles  **Herdon, VA** **Check out this amazing property!** **View**

FIG. 16

36 / 61

My Homes ▾ Find a Home Providers ▾ Forums

Home Search

Primary Street Address
Location: Zip Code
City State

Home Types: Single Family House Duplex Townhouse Condominium Apartment

To select 2 or more home types hold the CTRL key down

Price Range: to No Maximum

Bedrooms: Any Number

Bathrooms: Any Number

Sort By: Location

Options: Only show listed homes Only show homes with images

Show Homes



FIG. 17A

37/61

FIG. 17B

SUBSTITUTE SHEET (RULE 26)

38/61

Filter by Project Categories Hide ▲

Select All Deselect All Show Homes

Categories

Carpentry
 Cabinets
 Decks
 Installation
 Repair

Flooring
 Carpet
 Hardwood
 Laminate
 Tile
 Ceramic
 Grout Maintenance
 Vinyl

Remodeling
 Bathrooms
 Kitchens

Wood Furniture
 Refinish

Cleaning Services

Carpet Drapery & Upholstery

[Back to Top](#)

FIG. 17C

FIG. 18

40/61

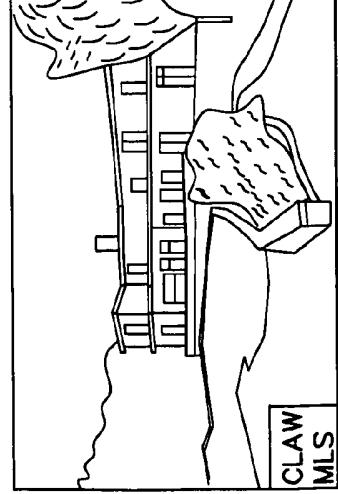
| My Homes ▶ Find a Home Providers ▶ Forums | <input type="checkbox"/> 464 Main St. Edit Transfer Denver, CO 80252 |  CLAW MLS | New Project View All Projects | | | | | | | | | | | | | | | | | | |
|---|---|--|---|---------------|---|--------------------------------------|-------------|-----|-------|-----|----|-------------|-----|-----|------------------|-----|-----|-----------------|-----|-----|---|
| | | Projects | New Project View All Projects | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Name</th> <th>Status</th> <th>Published</th> </tr> </thead> <tbody> <tr> <td>Fireplaces, Inserts & Stoves Project</td> <td>In Progress</td> <td>Yes</td> </tr> <tr> <td>Floor</td> <td>New</td> <td>No</td> </tr> <tr> <td>Fix Railing</td> <td>New</td> <td>Yes</td> </tr> <tr> <td>Recovery Project</td> <td>New</td> <td>Yes</td> </tr> <tr> <td>Gutters Project</td> <td>New</td> <td>Yes</td> </tr> </tbody> </table> | Name | Status | Published | Fireplaces, Inserts & Stoves Project | In Progress | Yes | Floor | New | No | Fix Railing | New | Yes | Recovery Project | New | Yes | Gutters Project | New | Yes | Delete Selected Create a Home |
| Name | Status | Published | | | | | | | | | | | | | | | | | | | |
| Fireplaces, Inserts & Stoves Project | In Progress | Yes | | | | | | | | | | | | | | | | | | | |
| Floor | New | No | | | | | | | | | | | | | | | | | | | |
| Fix Railing | New | Yes | | | | | | | | | | | | | | | | | | | |
| Recovery Project | New | Yes | | | | | | | | | | | | | | | | | | | |
| Gutters Project | New | Yes | | | | | | | | | | | | | | | | | | | |
| | | Projects | New Project View All Projects | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Photo</th> <th>Not Available</th> </tr> </thead> </table> | Photo | Not Available | Delete Selected Create a Home | | | | | | | | | | | | | | | | |
| Photo | Not Available | | | | | | | | | | | | | | | | | | | | |

FIG. 19

41 / 61

My Homes ▾ Find a Home Providers ▾ Forums

464 Main St. > Home Overview

 464 Main St., Denver, CO 80252 

Mr. Roger's Neighborhood
Ownership Confirmed
Price: \$960,000 MLS1310045682
Appraised: \$951,000 Assessment: \$885,000
Single Family House Style: Neoclassical

Tools:                           <img alt="Checkmark icon

42/61

My Homes ▾ Find a Home Providers ▾ Forums

464 Main St. > Home Overview

464 Main St., Denver, CO 80252 

Mr. Roger's Neighborhood
Ownership Confirmed

Price: \$960,000 MLS1310045682 Basis: \$338,000

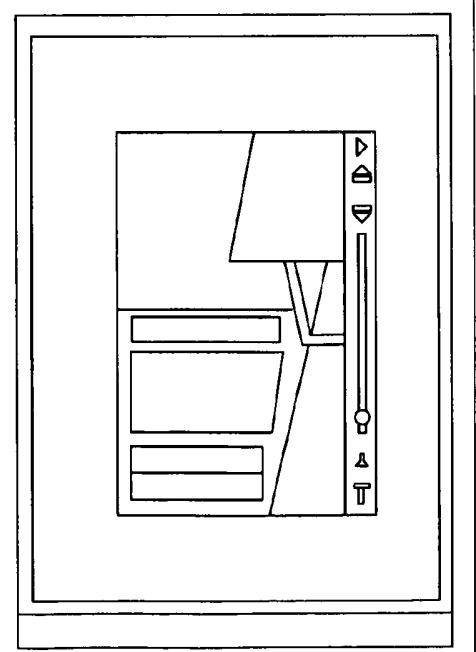
Appraised: \$951,000 Assessment: \$885,000 6 bedrooms Built 1954

Single Family House 2 Full Baths 6,875 Sq. Ft. 48 Acres

Style: Neoclassical

Tools:      \$ 22



► 1.mpeg (0.0 sec)
► 2.mpeg (0.0 sec)
► 03-15-07_1900_3g2.(8.0 sec)
► 03-13-07_1723_3g2 (0.0 sec)

FIG. 20B

43/61

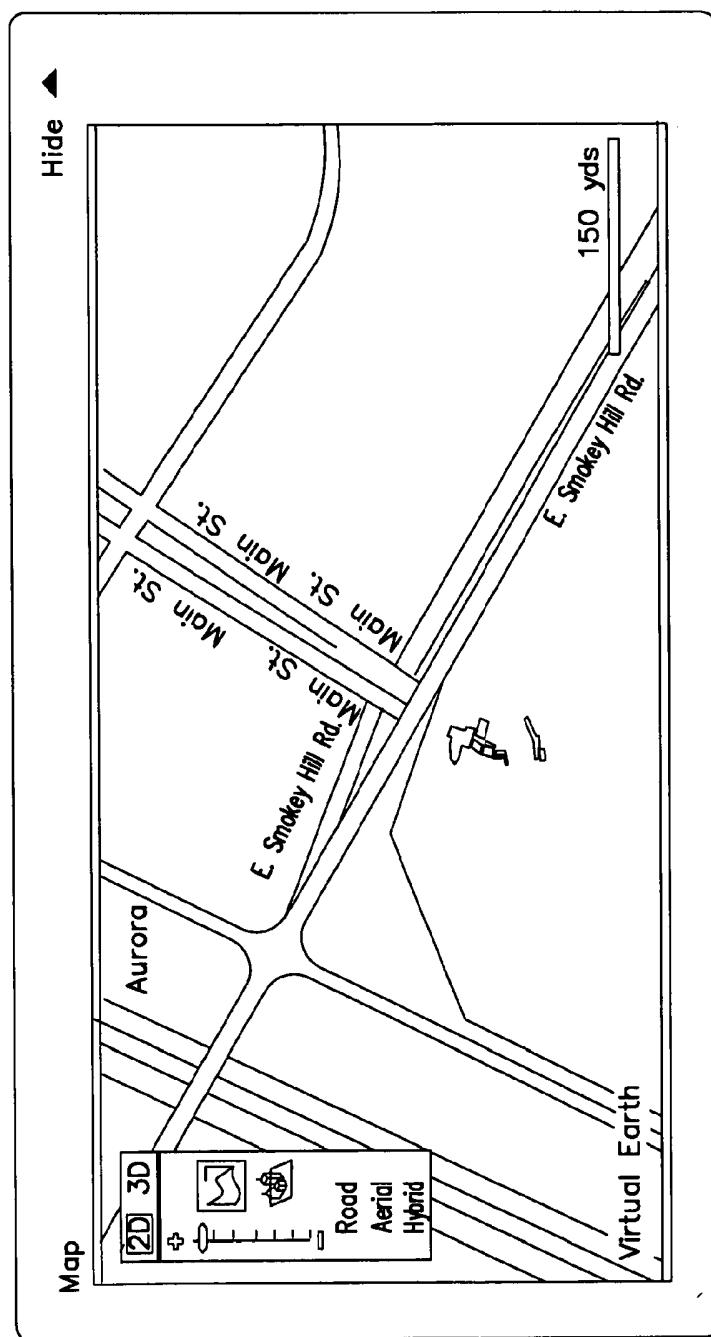
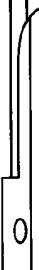
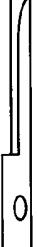
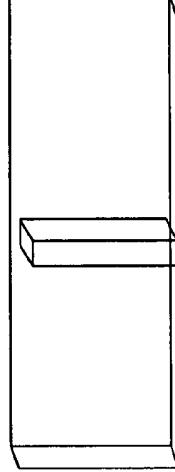


FIG. 20C

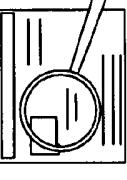
44/61

| | | |
|---|---|---|
| <p><input checked="" type="checkbox"/> Conveying Inventory</p> <p> Stove Table</p> <p></p> | <p><input checked="" type="checkbox"/> Published Projects</p> <p> Gutters Project Fix Railing Recovery Project Gutters Project Fireplaces, Inserts & Stoves Project Outlets, Switches & Wiring Project Interior Designers Project</p> <p></p> | <p><input checked="" type="checkbox"/> Attached Files (e.g., plots, floor plans, etc.)</p> <p> Plot.htm 3/21/2007 11KB [view (3)]</p> <p></p> |
|---|---|---|

Inventory Value (top 5 categories)

| | |
|--|-------------------|
|  | Appliances |
| \$50 | |
| \$40 | |
| \$30 | |
| \$20 | |
| \$10 | |
| \$0 | |

Estimated Value



View a printable overview page with more detailed information for this property.

DETAILS PAGE

FIG. 20D

45/61

2100

| | | | |
|--|-------------|----------------------------------|--------|
| My Homes | Find a Home | Providers | Forums |
| <input type="radio"/> 464 Main St. > Edit Home | | | |
| Address (required) | | | |
| Primary Street Address | | | |
| 464 Main St. | | | |
| Secondary Street Address | | | |
| City | State | Zip Code | 80252 |
| Denver | Colorado | <input type="button" value="▼"/> | 80252 |

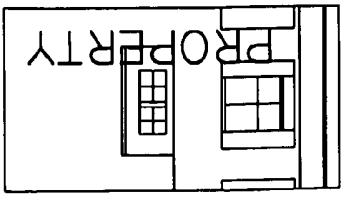
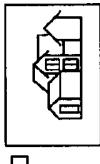


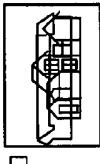
FIG. 21A

46/61

Hide 

Images and Files

Select to mark for deletion  

| | | |
|--|--|--|
| <input type="checkbox"/>  Picture of Single Family House (859) | <input type="checkbox"/> My cool Single Family House (764) | <input type="checkbox"/> My cool Single Family House (801) |
| <input type="checkbox"/> 1.mpeg | 00:00 03/12/2007 445 KB [view (267)] | |
| <input type="checkbox"/> 1.mp3 | 00:00 03/12/2007 86 KB [listen (0)] | |
| <input type="checkbox"/> 2.mpeg | 00:00 03/13/2007 445 KB [view (39)] | |

 [Quote_28376501.htm](#) 03/21/2007 11 KB [view (3)]

Specify additional files to add (allowable file types):

| Caption | Access | File |
|-------------------------------|---|----------------------|
| <input type="text"/> File #1: | <input type="checkbox"/> Public  | <input type="file"/> |
| <input type="text"/> File #2: | <input type="checkbox"/> Public  | <input type="file"/> |
| <input type="text"/> File #3: | <input type="checkbox"/> Public  | <input type="file"/> |

Add More Files

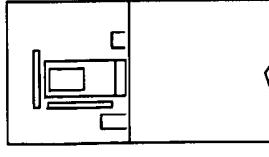
 

FIG. 21B

2102

47/61

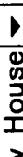
| Details and Features | | Hide  |
|----------------------|---|--|
| Neighborhood: | Mr. Roger's Neighborhood |  2104 |
| Listing Status: | For Sale  | |
| Listing Price: | \$ 960000 | |
| Estimated Value: | \$ 951000 | |
| Tax Assessed Value: | \$ 885000 |  2103 |
| Basis: | \$ 338000 | |
| Home Type: | Single Family House  | |
| Architectural Style: | Neoclassical  | |
| Model Name: | Essington | |
| Builder: | NV Homes | |
| Year Built: | 1954 | |
| Lot Size: | 48.0 Acres | |
| Home Size: | 6875 Square Feet | |
| Description: | Single family house overlooking a man-made pond. | |

FIG. 21C

48/61

| | | |
|--|--|--|
| NOTE: For feature sets supporting more than one selection, to select more than one feature Hold the CTRL key down. | | |
| Air Conditioning: | <input type="checkbox"/> None <input checked="" type="checkbox"/> ▶ | |
| Deck: | <input type="checkbox"/> None <input checked="" type="checkbox"/> ▶ | |
| Exterior: | <input type="checkbox"/> Stucco <input checked="" type="checkbox"/> Vinyl Siding <input type="checkbox"/> Wood <input checked="" type="checkbox"/> ▶ | |
| Heat: | <input type="checkbox"/> Baseboard <input checked="" type="checkbox"/> Forced Air <input type="checkbox"/> Gas <input checked="" type="checkbox"/> ▶ | |
| Parking: | <input type="checkbox"/> Assigned <input checked="" type="checkbox"/> Attached <input type="checkbox"/> Carport <input checked="" type="checkbox"/> ▶ | |
| Plumbing: | <input type="checkbox"/> None <input checked="" type="checkbox"/> ▶ | |
| Roof: | <input type="checkbox"/> None <input checked="" type="checkbox"/> ▶ F/G. 21D(1) | |
| Water: | <input type="checkbox"/> None <input checked="" type="checkbox"/> ▶ F/G. 21D(2) | |
| Closet: | <input type="checkbox"/> Cedar-Lined <input type="checkbox"/> Clothes/Standard <input type="checkbox"/> Coat <input checked="" type="checkbox"/> ▶ | |
| Driveway: | <input type="checkbox"/> Concrete <input type="checkbox"/> Dirt <input checked="" type="checkbox"/> Gravel <input checked="" type="checkbox"/> ▶ | |
| Garden: | <input checked="" type="checkbox"/> Flower <input type="checkbox"/> Herb <input type="checkbox"/> Rock <input checked="" type="checkbox"/> ▶ | |
| Location: | <input type="checkbox"/> Cul-de sac <input type="checkbox"/> End Unit <input checked="" type="checkbox"/> Golf Course <input type="checkbox"/> Front <input checked="" type="checkbox"/> ▶ | |
| Patio: | <input type="checkbox"/> None <input checked="" type="checkbox"/> ▶ | |
| Pool: | <input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor Above-Ground <input type="checkbox"/> Outdoor In-Ground <input checked="" type="checkbox"/> ▶ | |
| Sewer: | <input type="checkbox"/> None <input checked="" type="checkbox"/> ▶ | |
| Windows: | <input type="checkbox"/> Bay <input type="checkbox"/> Casement <input type="checkbox"/> Double-paned <input checked="" type="checkbox"/> ▶ | |

B

A

FIG. 21D(1)

49/61

| | | | | |
|----------|-----------------------|--|--|---|
| A | Miscellaneous: | <input type="checkbox"/> Air Filter | <input type="checkbox"/> Automatic Garage Door | <input type="checkbox"/> Automatic Gates |
| | | <input type="checkbox"/> Basketball Hoop | <input type="checkbox"/> Cable | <input type="checkbox"/> Central Vacuum |
| | | <input type="checkbox"/> Intercom System | <input type="checkbox"/> Porch | <input type="checkbox"/> Putting/Chipping Green |
| | | <input type="checkbox"/> Satellite Dish | <input type="checkbox"/> Security System | <input type="checkbox"/> Shutters |
| | | <input type="checkbox"/> Sidewalk | <input type="checkbox"/> Solar Power | <input type="checkbox"/> Spa/Hot Tub |
| | | <input type="checkbox"/> Sprinkler System | <input type="checkbox"/> Tennis Court | <input type="checkbox"/> Water Filter |
| | | <input type="checkbox"/> Zoned Temperature Control | | |

Save**FIG. 21D(2)**

50/61

| My Homes ➔ Find a Home ➔ Providers ➔ Forums | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|-------------------------------------|------------|-----------|----------------------------------|----------------------------------|--|--|-------------------------------------|--------------------------------------|--------------------------------|---|--|-------------------------------------|---|--|-------------------------------------|--|-------------------------------------|----------------------------------|---|--------------------------------|--------------------------|-------------------------------------|---|---|--------------------------------|--------------------------|-------------------------------------|---|---|--|---|-------------------------------------|---|---|--------------------------------------|--------------------------|-------------------------------------|---|--|--------------------------------|--|-------------------------------------|
| <input type="radio"/> 464 Main st. ➔Project Overview 2201 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Show ➔ Projects <input type="checkbox"/> New Project ➔ 2206 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th colspan="2">Category</th> <th>Start ➔ Date</th> <th>End ➔ Date</th> <th>Published</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> Gutters</td> <td><input type="checkbox"/> Project</td> <td>2202</td> <td>2214</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Fix Railing</td> <td><input type="checkbox"/> Floor</td> <td>Cleaning Services—>Exterior Home—>Gutters</td> <td>2212</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Carpentry—>Decks—>Repair</td> <td><input type="checkbox"/> Carpentry—>Flooring—>Hardwood</td> <td><input type="checkbox"/> Inactive ➔</td> <td>2210</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Gutters</td> <td><input type="checkbox"/> Outlets, Switches & Wiring Project</td> <td><input type="checkbox"/> New ➔</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Electrical—>Outlets—>Switches & Wiring</td> <td><input type="checkbox"/> Fireplaces, Inserts & Stoves Project</td> <td><input type="checkbox"/> New ➔</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> & Wiring Project</td> <td><input type="checkbox"/> Interior Designers Project</td> <td><input type="checkbox"/> In Progress ➔</td> <td>9/12/2006</td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Inserts & Stoves Project</td> <td><input type="checkbox"/> Recovery Project</td> <td><input type="checkbox"/> Submitted ➔</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/> Interior Designers Project</td> <td><input type="checkbox"/> Computers—>Data—>Recovery</td> <td><input type="checkbox"/> New ➔</td> <td>2208</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> | | Category | | Start ➔ Date | End ➔ Date | Published | <input type="checkbox"/> Gutters | <input type="checkbox"/> Project | 2202 | 2214 | <input checked="" type="checkbox"/> | <input type="checkbox"/> Fix Railing | <input type="checkbox"/> Floor | Cleaning Services—>Exterior Home—>Gutters | 2212 | <input checked="" type="checkbox"/> | <input type="checkbox"/> Carpentry—>Decks—>Repair | <input type="checkbox"/> Carpentry—>Flooring—>Hardwood | <input type="checkbox"/> Inactive ➔ | 2210 | <input checked="" type="checkbox"/> | <input type="checkbox"/> Gutters | <input type="checkbox"/> Outlets, Switches & Wiring Project | <input type="checkbox"/> New ➔ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> Electrical—>Outlets—>Switches & Wiring | <input type="checkbox"/> Fireplaces, Inserts & Stoves Project | <input type="checkbox"/> New ➔ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> & Wiring Project | <input type="checkbox"/> Interior Designers Project | <input type="checkbox"/> In Progress ➔ | 9/12/2006 | <input checked="" type="checkbox"/> | <input type="checkbox"/> Inserts & Stoves Project | <input type="checkbox"/> Recovery Project | <input type="checkbox"/> Submitted ➔ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> Interior Designers Project | <input type="checkbox"/> Computers—>Data—>Recovery | <input type="checkbox"/> New ➔ | 2208 | <input checked="" type="checkbox"/> |
| Category | | Start ➔ Date | End ➔ Date | Published | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Gutters | <input type="checkbox"/> Project | 2202 | 2214 | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Fix Railing | <input type="checkbox"/> Floor | Cleaning Services—>Exterior Home—>Gutters | 2212 | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Carpentry—>Decks—>Repair | <input type="checkbox"/> Carpentry—>Flooring—>Hardwood | <input type="checkbox"/> Inactive ➔ | 2210 | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Gutters | <input type="checkbox"/> Outlets, Switches & Wiring Project | <input type="checkbox"/> New ➔ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Electrical—>Outlets—>Switches & Wiring | <input type="checkbox"/> Fireplaces, Inserts & Stoves Project | <input type="checkbox"/> New ➔ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> & Wiring Project | <input type="checkbox"/> Interior Designers Project | <input type="checkbox"/> In Progress ➔ | 9/12/2006 | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Inserts & Stoves Project | <input type="checkbox"/> Recovery Project | <input type="checkbox"/> Submitted ➔ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Interior Designers Project | <input type="checkbox"/> Computers—>Data—>Recovery | <input type="checkbox"/> New ➔ | 2208 | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <input style="border: 1px solid black; padding: 2px; margin-right: 10px;" type="button" value="Save Changes"/> <input style="border: 1px solid black; padding: 2px;" type="button" value="Reset"/> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

FIG. 22

51/61

2302

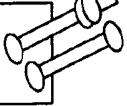
| | | | |
|--|-------------|-----------|--------|
| My Homes | Find A Home | Providers | Forums |
| O 464 Main st. > Projects > Edit Project | | | |
| <p>Project Overview</p> <p>Category: Cleaning Services->Exterior Home->Gutters</p> <p>*Name: Gutters Project </p> <p>*Description: I want what I want and I want it now</p> <p><input checked="" type="checkbox"/> (Allows other members to view this project)</p> <p>Affected Areas: <input type="checkbox"/> Rooms <input type="checkbox"/> Attic <input type="checkbox"/> To select more than one area hold the CTRL key down. <input type="checkbox"/> Dinette <input type="checkbox"/> Dining Room <input type="checkbox"/> Exercise Room</p> <p>Project Status: <input type="checkbox"/> Inactive <input type="checkbox"/> Active</p> <p>Actual Start Date: <input type="checkbox"/></p> <p>Actual End Date: <input type="checkbox"/></p> <p>Desired Start Date: <input type="checkbox"/></p> <p>Desired Completion Date: <input type="checkbox"/></p> <p>Approximate Cost: \$ <input type="checkbox"/> // \$ <input type="checkbox"/></p> <p>Will you provide the materials: <input checked="" type="checkbox"/></p> <p>Service Providers can contact you by: <input type="checkbox"/> Email <input type="checkbox"/> Phone <input type="checkbox"/> Mobile Phone <input type="checkbox"/> Private Message</p> | | | |
|   | | | |

FIG. 23A

52/61

2304

FIG. 23B

53/61

2306

| Specify additional files to add (allowable file types): | | | |
|---|--|---------------------------------------|--|
| Caption | Access | File | |
| File #1 | Private <input type="button" value="»"/> | <input type="button" value="Browse"/> | |
| File #2 | Private <input type="button" value="»"/> | <input type="button" value="Browse"/> | |
| File #3 | Private <input type="button" value="»"/> | <input type="button" value="Browse"/> | |
| <input type="button" value="Add More Files"/> <input type="button" value="Edit Folder"/> <input type="checkbox"/> Delete Folder | | | |
| <input type="button" value="Create Folder"/> | | | |
| <input type="button" value="Save"/> <input type="button" value="Reset"/> | | | |

FIG. 23C

54/61

My homes ▾ Find a Home Providers ▾ Forums

○ 464 Main st. > Inventory Overview

Show Active □ Items

All ▾ ▶

| Image | Name | Location | Manufacturer | Value |
|--------------------------|----------|---------------|--------------|---------|
| <input type="checkbox"/> | Computer | Not Specified | | |
| <input type="checkbox"/> | Table | | Dinette | |
| <input type="checkbox"/> | Stove | Kitchen | | \$50.00 |

✖ \$ ⚡

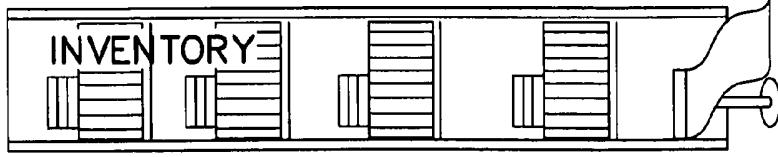
✖ New Item ⚡ Generate Report

FIG. 24

55/61

| | |
|--|--|
| My Homes ▶ Find a Home Providers ▶ Forums | |
| <input type="radio"/> 464 Main st. > Inventory Overview > Stove | |
| Item Definition (required) | |
| Name: <input type="text" value="Stove"/> | Category: <input type="text" value="Appliances"/>  |
| Conveys: <input checked="" type="checkbox"/> Checking this box will make item files public | |
| Images and Files Select to mark for deletion <input type="checkbox"/>  <i>stove.jpg(o)</i> | |
| Specify additional files to add (allowable file types): | |
| Caption <input type="text"/> | Access <input type="text"/>  |
| File #1 <input type="text"/> | File <input type="text"/>  |
| File #2 <input type="text"/> | File <input type="text"/>  |
| File #3 <input type="text"/> | File <input type="text"/>  |
| <input type="button" value="Add More Files"/> | |

INVENTORY


FIG. 25A

56/61

Hide ▲

| | | |
|---------|---------------------------|---|
| Details | Description: | <input type="text"/> |
| | Room/Area: | <input type="text"/> Kitchen  |
| | Location in Area: | <input type="text"/> |
| | Manufacturer: | <input type="text"/> |
| | Model Number: | <input type="text"/> |
| | UPC Code: | <input type="text"/> |
| | Serial Number: | <input type="text"/> |
| | Place of Purchase: | <input type="text"/> |
| | Purchase Date (mm/dd/yy): | <input type="text"/> 02/12/07  |
| | Purchase Price: | <input type="text"/> \$ <input type="text"/> |
| | Market Value: | <input type="text"/> \$ <input type="text"/> |
| | Quantity: | <input type="text"/> 1 |
| | | <input type="button" value="Save Item"/> |

FIG. 25B

57/61

| Rooms | Options | Attic |
|--|---------------------------------|-------------------------------------|
| <input type="radio"/> Attached Garage | <input type="radio"/> Bed | <input checked="" type="checkbox"/> |
| <input type="radio"/> Den | <input type="radio"/> Dinette | <input type="checkbox"/> |
| <input type="radio"/> Dining | <input type="radio"/> Exercise | <input type="checkbox"/> |
| <input type="radio"/> Family | <input type="radio"/> Foyer | <input type="checkbox"/> |
| <input type="radio"/> Full Bath | <input type="radio"/> Half Bath | <input type="checkbox"/> |
| <input type="radio"/> Kitchen | <input type="radio"/> Laundry | <input type="checkbox"/> |
| <input type="radio"/> Library | <input type="radio"/> Living | <input type="checkbox"/> |
| <input type="radio"/> Loft | <input type="radio"/> Media | <input type="checkbox"/> |
| <input type="radio"/> Rec | <input type="radio"/> Study | <input type="checkbox"/> |
| <input type="radio"/> Sun | <input type="radio"/> Utility | <input type="checkbox"/> |
| <input type="checkbox"/> Workshop Other | | |
| <input type="checkbox"/> 464 Main st. > Home Layout To add a room to a floor, first select the floor then click on a room type to add that type of room to the floor. <input type="button" value="Add Floor"/> | | |

| Rooms | Options | 1st Floor |
|--|--------------------------------------|-------------------------------------|
| <input type="radio"/> Master Bedroom | <input type="radio"/> Master Bedroom | <input checked="" type="checkbox"/> |
| <input type="radio"/> Dining Room | <input type="radio"/> Exercise Room | <input checked="" type="checkbox"/> |
| <input type="radio"/> Foyer | <input type="radio"/> Kitchen | <input checked="" type="checkbox"/> |
| <input type="radio"/> Loft | <input type="radio"/> Media Room | <input checked="" type="checkbox"/> |
| <input type="radio"/> Basement | <input type="radio"/> Workshop | <input type="checkbox"/> |
| <input type="checkbox"/> Recreation Room | | |

FIG. 26A

| Area Options | Other Areas |
|--|---------------------------------|
| <input type="checkbox"/> Car Port | <input type="checkbox"/> Closet |
| <input type="checkbox"/> Crawl space | <input type="checkbox"/> Deck |
| <input type="checkbox"/> Detached Garage | <input type="checkbox"/> Garden |
| <input type="checkbox"/> Greenhouse | <input type="checkbox"/> Patio |
| <input type="checkbox"/> Pool | <input type="checkbox"/> Porch |
| <input type="checkbox"/> Shed | <input type="checkbox"/> Yard |
| <input type="checkbox"/> Other | |
| <input type="checkbox"/> Shed <input checked="" type="checkbox"/> Pool <input checked="" type="checkbox"/> Front Yard <input checked="" type="checkbox"/> Front Yard | |
| <input type="checkbox"/> Deck <input checked="" type="checkbox"/> Front Yard <input checked="" type="checkbox"/> Front Yard | |
| <input type="checkbox"/> Other Areas | |

FIG. 26B

59/61

My Homes ▾ Find a Home Providers ▾ Forums

○ 464 Main st. > Rooms/Areas > Dinette

Room/Area Definition (required)

Name: Type:

Images and Files

Hide

Select to mark for deletion

  Side view of my dinette (116)

My dinette (379) Entry view of my dinette (283) Side view of my dinette (116)

Specify additional files to add (allowable file types):

Caption Access

File #1 Private

File #2 Private

File #3 Private

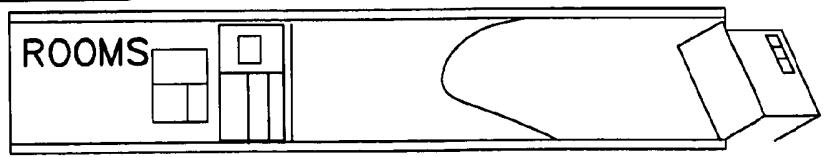


FIG. 27A

60/61

Hide ▲

| Details and Features | |
|----------------------|---|
| Shape: | Hexagonal <input checked="" type="checkbox"/> |
| Length: | <input type="text"/> Feet |
| Area: | <input type="text"/> Square Feet |
| Description: | A smelly and cramped Dinette |

FIG. 27B

61/61

NOTE: For feature sets supporting more than one selection, to select more than one feature hold the CTRL key down.

| | | | | | |
|----------------|--------------|-------|--------------|------------------|-------|
| Bar: | Breakfast | ▲ | Bath/Shower: | Freestanding Tub | ▲ |
| | Dry | ■■■■■ | | Jacuzzi | ■■■■■ |
| | Wet | ■■■■■ | | Stand-up Shower | ▼ |
| Ceiling: | Painted | ▲ | Closet: | Coat | ▲ |
| | Popcorn | ■■■■■ | | Linen | ■■■■■ |
| | Tray | ■■■■■ | | Pantry | ▼ |
| Communication: | Antenna | ▲ | Door: | Pet | ▲ |
| | Cable | ■■■■■ | | Screen | ■■■■■ |
| | Ethernet | ■■■■■ | | Single/Standard | ▼ |
| Fireplace: | Faux | ▲ | Floor: | Carpeted | ▲ |
| | Gas | ■■■■■ | | Concrete | ■■■■■ |
| | Wood Burning | ■■■■■ | | Hardwood | ▼ |
| Lighting: | Chandelier | ▲ | Oven: | Double | ▼ |
| | Fluorescent | ■■■■■ | | | |
| | Halogen | ■■■■■ | | | |
| Sink: | Pedestal | ▼ | Walls: | Painted | ▲ |
| Windows: | Bay | ▲ | | Panelled | ■■■■■ |
| | Casement | ■■■■■ | | Tiled | ▼ |
| | Double-paned | ■■■■■ | | | |

Miscellaneous:

| | | |
|--|---|--|
| <input type="checkbox"/> Balcony | <input type="checkbox"/> Bidet | <input type="checkbox"/> Built-in Shelves |
| <input type="checkbox"/> Butler's Pantry | <input type="checkbox"/> Carbon Monoxide Detector | <input type="checkbox"/> Ceiling Fan |
| <input type="checkbox"/> Clothes Dryer | <input type="checkbox"/> Clothes Washer | <input type="checkbox"/> Dehumidifier |
| <input type="checkbox"/> Dishwasher | <input checked="" type="checkbox"/> Exhaust Fan | <input type="checkbox"/> Garbage Compactor |
| <input checked="" type="checkbox"/> Garbage Disposal | <input type="checkbox"/> Humidifier | <input type="checkbox"/> Ice Maker |
| <input type="checkbox"/> Indoor Pool | <input checked="" type="checkbox"/> Island | <input type="checkbox"/> Radon Detector |
| <input type="checkbox"/> Smoke Detector | <input type="checkbox"/> Washer/Dryer Hookups | <input type="checkbox"/> Wine Cooler |

Save

FIG. 27C

SUBSTITUTE SHEET (RULE 26)