

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 February 2002 (07.02.2002)

PCT

(10) International Publication Number
WO 02/11012 A2

(51) International Patent Classification⁷: **G06F 17/60**

(21) International Application Number: PCT/US00/21697

(22) International Filing Date: 9 August 2000 (09.08.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/630,514 2 August 2000 (02.08.2000) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— with declaration under Article 17(2)(a); without abstract; title not checked by the International Searching Authority

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR FACILITATING THE SALE OF COM-MODITY-LIKE GOODS/SERVICES

(57) Abstract:

WO 02/11012 A2

SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR FACILITATING THE SALE OF COMMODITY-LIKE GOODS/SERVICES

Technical Field

5 The present invention relates generally to systems and methods for facilitating the sale of retail goods and/or services that are not easily or readily delivered to the consumer, or where the prices of such goods and/or services are not readily determined except at the retail outlet, such as vehicle fuels.

Background of the Invention

10 Various retail goods/services cannot be purchased/performed other than at the outlet of the retailer of such goods/services. Goods such as gasoline, diesel fuel, propane and a variety of other fuels, as well as services including vehicle repair or servicing , laundry and dry cleaning services, food service and the like, must generally be physically acquired at the retail outlet.

15 As with most items for sale, consumers of retail goods/services that are generally not deliverable to the consumer are interested in finding them at convenient and/or nearby locations, and/or finding them while traveling for other reasons, such as work, recreation, and/or other shopping. Unfortunately, the consumer presently has only limited ways to determine if a particular retailer of such goods/services has additional goods/services that
20 may be of interest. For example, vehicle fuel or like retailers often have convenience store items available at their outlet, or provide vehicle repair or servicing, but the consumer may generally be unaware of these other goods/services unless/until they actually visit the outlet. In addition, vehicle fuel or like retailers have other features that are of interest to consumers, such as hours of operation, acceptance of credit cards, and
25 automated teller machines (ATMs). From the point of view of both consumers and retailers, it would be worthwhile to provide consumers with information relating to the array of goods/services provided by the retailer without the consumer having to visit the outlet.

30 Additionally, retail consumers of goods/services that are subject to frequent, volatile, and/or asynchronous (meaning non-uniform over time or without a consistent pattern between various retailers) price fluctuations, are interested in finding the most attractive price for such goods/services. For example, a vehicle owner typically purchases fuel about 1.2 times per week, and the price of the fuel may vary within this period. The most attractive price is not necessarily the lowest price, but it is that price which the

consumer judges to be best in terms of a variety of factors, including those such as quality, convenience, and other subjective factors. Unfortunately, in the case of these types of goods/services, the consumer often has to drive around to assess the prices of competing retailers in order to determine which retailer has the most attractive price. As a result, much time, vehicle operating expense, and effort can be expended in trying to determine the most attractive price. Further, because of the frequent, volatile, and/or asynchronous price fluctuations of such goods/services, consumers find that prices can change between the time that they are observed and the time that the purchase is consummated. From the point of view of both consumers and retailers, it would be worthwhile to have the ability to provide consumers with information relating to the pricing of the goods/services without the consumer having to visit the outlet, and to assure that the price information communicated to consumers was honored by the outlet, for at least a specified period of time.

Further, retailers attempt to attract customers through costly advertising on television, radio, or in print, but again limitations exist as to what information can be conveyed to the consumer. In some cases, the prices of these goods/services are so volatile that it is impractical to advertise them other than at the outlet where they are purchased. A retailer must also promote and advertise its other secondary goods/services such as convenience store items or vehicle repair, which are often purchased in tandem with a product such as vehicle fuel. It would be worthwhile to retailers to have other media, and/or lowest cost media, for communicating with consumers.

However, advertising is a passive form of communication and it does not allow the retailer of these commodity-like goods or services to compile current, actual demographic data of its customers. Without this data, a retailer can only infer what the needs of his consumers are. As a result, the retailer may offer goods/services that do not precisely meet the needs of the consumer, or the retailer may miss out on revenue opportunities by not providing the goods/services that consumers are interested in purchasing. It would be worthwhile to retailers to be able to collect better information about the interests of their consumers.

It is also difficult for retailers, relative to their competition, to assess pricing and other variables for these types of goods/services. Retailers of these types of goods/services incur additional expenses, such as the labor and vehicle expense associated with driving around, in order to ascertain the current prices of such goods/services sold by

their competitors. This is particularly true when the price of such goods/services may be subject to rapid, volatile, and asynchronous price fluctuations in the marketplace. Further, retailers are sometimes limited in collecting this information because of work schedules, distances between competitors, traffic, and other factors. It would be worthwhile to
5 retailers to reduce the expenses associated with gathering information about the current prices of such goods/services sold by their competitors, and/or to be able to collect such information more frequently and/or more easily.

It would thus be of great value to provide systems and methods which better allow the consumers and retailers of such goods/services to communicate and acquire
10 information relating to such goods/services without having to travel to the retail outlet(s).

Summary of the Invention

Based upon the foregoing deficiencies in the prior art, it is an object of the present invention to provide systems and methods for facilitating the sale of commodity-like goods/services. The commodity-like goods/services at which the invention is directed, are
15 of a type that are relatively indistinguishable from one brand, identity and/or outlet to another in end-use functionality and features. These types of goods/services are many times sold at retail under various brands or identities at multiple locations, to the final end user. Such goods/services may also or separately be of a type that are repeatedly purchased at intervals, and/or for which the price varies between purchases, from outlet to
20 outlet or brand to brand. The goods/services may also be of a character such that they are not deliverable to the consumer, but require the consumer to travel to the retailer outlet.

It is also an object of the invention to provide systems and methods for facilitating the sale of goods/services which are subject to rapid, volatile, and/or asynchronous price fluctuations.

25 The present invention is also directed to providing information relating to the consumers and competitors of a retailer of such goods/services.

The present invention establishes methods and procedures to define, organize, collect, distribute, and maintain information that can be used by the owner of a business selling commodity-like goods/services as well as by its customers. This information may
30 include, but is not limited to, name brand of the product, location of the retailer, price of the product, other related goods/services available and their prices, and promotions.

These processes may be performed and implemented on a computer network that is accessible in real time via a suitable communication device, such as a computer, wireless

communication device, telephone or the like. The invention is directed to creating a database of such information, and allowing the consumer and other retailers to query the database using various search criteria. The consumer has the opportunity to obtain information about retailers of commodity-like goods/services that meet the consumer's requirements. The consumer then has the opportunity to evaluate which retailer to purchase items from. The pricing information the consumer is presented with for such goods/services may be guaranteed by the retailer. Other retailers have the opportunity to obtain information about retailers of commodity-like goods/services with whom they compete. They then have the opportunity to evaluate the scope of goods/services that the other retailers offer, their prices, and other terms and conditions.

Based upon the foregoing, in one aspect of the invention, there is provided a system for acquiring and disseminating information related to goods/services comprising a user interface having at least one input device to enable a user to input predetermined information relating to predetermined goods or services. The predetermined goods/services may have pricing which is subject to substantial variations, or are not deliverable to a consumer. There is also provided a method for generating a database relating to goods/services sold via retail outlets, comprising the steps of prompting a user to input information related to a retail outlet selected from the group of vehicle fuel outlets, vehicle servicing outlets, convenience food stores and combinations thereof. The input information is selected from the group consisting of location of the retail outlet, brand information, price information, goods sold, services offered, special promotions on goods or services, price guarantees on goods or services or combinations thereof.

Additionally, a method of providing a guaranteed price in the sale of goods/services is set forth. Firstly, the consumer is provided with predetermined information relating to at least the price of goods/services presently being offered. The consumer is also provided with a predetermined guarantee related to at least the price of goods/services, for some pre-authorized period of time, which guarantee can be authenticated and redeemed at the outlet where said goods/services are offered for sale. Other methods and a computer program product are also set forth.

Brief Description of the Drawings

Other aspects, advantages and attributes of the invention will become apparent upon a reading of the description of embodiments thereof along with the figures, wherein:

Fig. 1 is a schematic illustration of an embodiment of the present invention, implemented via a site on a global information system, i.e. a website on the World Wide Web.

Figs. 2 - 9 show pages associated with a site on a global information system such as shown in Fig. 1, according to an embodiment of the invention.

Fig. 10 shows a block diagram of an Interactive Voice Response (IVR) subsystem according to an embodiment of the invention.

Figs. 11 - 15 show further pages associated with a site on a global information system according to an embodiment of the invention.

Fig. 16 shows a block diagram of a further embodiment according to the invention.

Detailed Description of the Preferred Embodiment

The present invention is fully described hereinafter with reference to the drawings, in which preferred embodiments of the invention are shown. The invention may also be embodied in many different forms and should not be construed as limited to only the disclosed embodiments. The provided embodiments are included so the disclosure will be thorough, complete and will fully convey the scope of the invention to persons of ordinary skill in the art.

A person of ordinary skill in the art would appreciate that the present invention may be embodied as a method, data processing or acquisition system, or computer program product. As such, the present invention may take the form of an embodiment comprised entirely of hardware; an embodiment comprised entirely of software or an embodiment combining software and hardware aspects. In addition, the present invention may take the form of a computer program product on a computer-readable storage medium having computer-readable program code means embodied in the medium. Any suitable computer readable medium may be utilized including hard disks, CD-ROMs, optical storage devices, or magnetic storage devices.

The present invention is described with reference to flowcharts and/or diagrams that illustrate methods, apparatus or systems and computer program product. It should be understood that each block of the various flowcharts, and combinations of blocks in the flowcharts, can be implemented by computer program instructions. Such computer program instructions can be loaded onto a general-purpose computer, special purpose computer, or other programmable data processing device to produce a machine, such that

the instructions that execute on the computer or other programmable data processing apparatus create means for implementing the functions specified in the flowcharts. The computer program instructions can also be stored in a computer-readable memory that directs a computer or other programmable data processing device to function in a particular manner, such that the instructions stored in the computer-readable memory produce an article of manufacture including instruction means which implement the function specified in the flowcharts or diagrams. The computer program instructions may also be loaded onto a computer or other programmable data processing apparatus to cause a series of operational steps to be performed on the computer or other programmable apparatus to produce a computer implemented process such that the instructions which execute on the computer or other programmable apparatus provide steps for implementing the functions specified in the flowcharts or diagrams.

It will be understood that blocks of the flowcharts support combinations of systems for performing the specified functions, combinations of steps for performing the specified functions and program instructions for performing the specified functions. It is also to be understood that each block of the flowcharts or diagrams, and combinations of blocks in the flowcharts or diagrams, can be implemented by special purpose hardware-based computer systems which perform the specified functions or steps, or combinations of special purpose hardware and computer instructions.

The present invention could be written in a number of computer languages including, but not limited to, C++, Basic, Visual Basic, Fortran, Cobol, Smalltalk, Java, and other conventional programming languages. It is to be understood that various computers and/or processors may be used to carry out the present invention without being limited to those described herein. The present invention runs on standard computers such as IBM or IBM-compatible or Apple/Macintosh personal computers, utilizing suitable operating systems. However, it should be understood that the present invention could be implemented using other computers and/or processors, including, but not limited to, mainframe computers and mini-computers.

Currently consumers of price sensitive or commodity-like retail goods/services often drive to the outlet at which the commodity-like goods/services are being sold in order to determine the current selling price of the particular item or service. Specifically, both private and commercial consumers are interested in the price of commodity-like goods/services such as vehicle fuels because the product's price is often subject to rapid,

volatile, and asynchronous fluctuations. Furthermore, operators of fleet and cargo transportation companies must constantly scrutinize the price of these fuels because of the impact that vehicle fuel prices have on their cost structure. However, even though fuel prices affect a vast array of business and personal decisions, there is presently no method or system for tracking prices in real-time, reserving a price in advance for commodity-like goods/services, such as vehicle fuels, and/or accessing competitor information relating to such commodity-like goods/services. Commercial and private consumers of these and similar goods/services often drive to the outlet at which the commodity-like goods/services are sold to determine the price, expending valuable time, effort, and resources. It would therefore be desirable to provide a method and system for compiling prices of commodity-like goods/services in one central location, such as a web site or other easily accessible location. The present invention provides this ability, by allowing a user to determine the current price of commodity-like goods/services among various competitors. This creates a tremendous breakthrough from a buyer's perspective. However, the invention builds on its foundation of centralized commodity-like goods/services price data and has increased the utility of its system to the user, by creating a method where a consumer can receive a price guarantee on particular commodity-like goods/services for a fixed amount of time. Commercial and private consumers of vehicle fuel as an example, would then be able to save time, money and effort by simply accessing the interface of the invention, such as a web site, comparing the prices of the commodity-like goods/services among various retailers, and then printing a price guarantee for that item. Furthermore, by allowing a commercial consumer to be able to "lock into" commodity-like goods/services at a specific price, the business can take advantage of market conditions to make a large purchase for its entire fleet. As a result, the invention can be an essential tool in the competitive fleet and transportation industries which purchase hundreds of thousands of gallons of fuel each year. By having the ability to instantly determine the most attractive vehicle fuel price among competing vehicle fuel retailers prior to purchasing, commercial entities can budget and reduce costs. Thus, the invention can be/can become a valuable tool for accessing price information of commodity-like goods/services, that is easy to use and will save both private and commercial consumers time, effort and money.

As a further aspect of the invention, fleet operators have the ability to plan a route in which fleet trucks will be able to get extended term fuel price guarantees to provide for

the long distance that the trucks will be traveling. Therefore, as the truck goes from vehicle fuel retailer to retailer, the truck operator will have in advance, established a guaranteed price along the travel route.

It is also a distinct advantage of the present invention to provide the retailer with an enhanced ability to monitor its competition. This enhanced ability will allow the business owner to monitor price movement of a product or service over time, and trends relating to competitors and consumer purchasing activities. Additionally, the business owner now has a tool to inform the consumer of its attributes, specials or other information, which will facilitate drawing the consumer to their facility.

Referring now to FIG. 1, a diagram of a preferred embodiment of an interactive commodity-like goods/services price reservation and data collection/dissemination system and computer network is shown. The system may be embodied in a computer network comprising an input/output system **10** that allows consumers a simple and convenient method of determining what the price of certain commodity-like goods/services in a certain user-defined area. Retailers of commodity-like goods/services are also able to input current price data and other advertising or service information into the system as well as receive information on what price competitors are selling their goods/services. This input/output system **10** may comprise any modality of communication, such as a telephone **11**, a computer **12**, and a wireless type of communication device **13** (e.g., a personal data assistant, in-vehicle communication device or cell phone as merely examples), or combination of any of these. Further devices such as in-vehicle wireless communication devices may provide a communication link by which data can be entered and/or received from the system, including possibly location information. The computer **12** and wireless communication device **13** may use a global information network, such as the Internet, to present an interface to the user, such as a web site having web pages **14** to allow the users to access the system. The web pages **14** provide information and access to information for the computer user, with the information stored or accessed via a web server **16**. The user of a wireless device has their information transferred through a Wireless Application Protocol Service Provider **15** via the web server **16**. The system may further include a network application server **17** which coordinates access to the Structured Query Logic (SQL) backup server **18** that accesses an SQL database **19**. The SQL backup server may be utilized to store and retrieve data in the event that SQL server **20** goes offline. The network server **17** may also communicate with a (SQL) server **20**

which uses an (SQL) database **21** to store and retrieve queried data. In the embodiment shown, web server **16** and network application server **17** may coordinate information through a Microsoft Transaction Server (MTS) **30**. The network application server **17** may communicate via an encrypt/decrypt connection **22** and through an Internet Server Applications Protocol Interface (ISAPI) **23**, which utilizes a Secure Socket Layer (SSL) security protocol in order to interface with the Interactive Voice Response (IVR) system **24**, which may include an IVR processor **24(a)**, an encrypt/decrypt connection **24(b)** and an IVR database **24(c)**. The IVR system **24** may be supplied by an outside vendor as shown in FIG. 1, or could be made part of the system if desired. The IVR capability allows interface with the system via a normal telephone connection or the like, wherein voice data is interpreted and recognized via the IVR system **24**. Thus, even a business owner or consumer who does not own a computer may access and use the system and methods according to the invention to their advantage. As a further aspect of the invention which could be provided by an outside vendor, the system according to the invention desirably obtains location specific information for a consumer and/or business owner. Commercial mapping databases already exist, which could be easily accessed via the system according to the invention, or alternatively such information could be resident upon the system in the invention. As shown in FIG. 1, the web server **16** communicates through ISAPI **27** which uses Hypertext Transfer Protocol (HTTP) **28** to communicate with the mapping process or **29(a)**. The mapping process or **29(a)** has the capability of accessing mapping database **29(b)** in order to retrieve map data concerning a specified location.

FIG. 2 refers to the interface with a user, such as a web site, and more particularly the welcome page **40** that will greet users of the invention. This graphical user interface provides several features to increase the user's efficiency in finding commodity-like goods/services, such as vehicle fuels, in the user's target area. More specifically, the system allows the owners of businesses offering commodity-like goods/services to communicate information about price or the like, as well as location information to a consumer. In addition, this page provides a method in which the user can store information for future access so that a search of relevant businesses may be stored and more easily accessed later. Welcome page **40** consists of menu bar **41** which spans horizontally across the top of the web page. This menu bar **41** may comprise convenient options that allow the user to easily navigate and locate appropriate information, as well

as manipulate information where needed. These buttons may include home **42**, retailers profile **43**, motorist profile **44**, customer service **45**, public interest **46**, tutorial **47**, and site map **48** links to further information or pages in the system. These options may be active HTTP links that take the user of the site to the corresponding area when the user places his mouse cursor over the hypertext option and clicks the left mouse button.

More specifically, the options in the menu bar **41** allow both retail and consumer users to build user profiles, gain access to customer service information, access information concerning public interest, and complete a tutorial of how to use the invention. The hypertext button entitled "Home" **42** allows the user to return to the welcome page **40** from any web page that the user is currently viewing. Customer service option **45** provides the user a wide variety of resources in the event a problem arises when using the system. This information will include items such as the site mailing address, phone numbers to access both general and technical information, email addresses to access general and technical information, a privacy statement, and a Frequently Asked Questions (FAQ) section with the most commonly asked questions regarding the use of the system. The public interest option **46** will provide Internet links to various web sites associated with travel and vehicle maintenance, such as motel/hotel web sites, car enthusiast web sites, tourist information or other information. The tutorial option **47** will contain information and assistance on the protocol and procedures required in establishing registration on the system, how to receive and print a price guarantee in addition to basic general tips for novice computer users. The site map option **48** will transfer the user to the site map web page **70** as shown in FIG. 3. Referring to Fig. 3, the site map page may comprise a complete set of links that will allow an experienced user to directly access a specific web page on the web site. Some specific links that will be included on the site map web page include customer service **71**, contact information **72**, forget password **73**, public interest **75**, motorist registration **76**, retailers registration **77**, and tutorial **78**.

Returning to FIG. 2, on the left side of the welcome web page **40** resides an area for registered users or those retailers/consumers that wish to become registered users. In this embodiment, a registered user may store, retrieve, and/or update information in their user profiles. A registered user may access the system via a Username **49**, and Password **50**. The username text box **49** and password textbox **50** allow the user of the system to enter their unique username and password into the web site. After entering this data, the user then clicks their mouse cursor on the "GO" button **51** in order to gain access to their

user profile, which is displayed on search results page **110** as shown in Fig. 6, that comprises the information contained in the user's profile. The user registration area may also contain active hypertext transfer protocol links entitled "Forget Password?" **52** and "Register Here" **53**. Upon clicking on the "Forget Password?" link **52** the registered user is transferred to a web page as shown in FIG. 4. This page allows the user that has forgotten their unique password to be prompted with a short key phrase that the user has specified in his user profile as a clue in remembering the user's password. In order to do this, the user must enter their user name in the username text box **90**, and then click the "Submit" button **91** with his computer mouse. The user will then be prompted with his key phrase **92** that the user has previously defined in his user profile. The user is then required to enter the answer to the key phrase in the "key phrase value" text box **93** and then click the "KeyPhrase" button **94**. After completing these steps successfully, the user's password will be displayed. The "Register Here" link **53** transfers the web site user to a user registration web site called "motorist profile" **85** where the user will be given a unique user identification and password and asked to enter other specified information. Unregistered users who attempt to access a feature reserved exclusively for registered users will be transferred to a web page as shown in FIG. 5. This web page gives the user two options; registered users must use their computer mouse and clicking the link "here" **100** and be transferred to a web page where they can log into the system to access features reserved for registered users. Unregistered users are given the hypertext link "here" **101** to be transferred to a web page to initiate the registration process.

Returning to FIG. 2, located in the center of the welcome web page **40**, are text boxes that include address **54**, city **55**, state **56**, zip code **57**, intersection **58(a)** and **58(b)**, radius **59**, and a "go" button **60**. These text boxes allow any user of the system to enter their corresponding information and search for locations of vehicle fuel stations or other commodity-like goods/services retailers that meet these criteria. After entering the search criteria, the user clicks on the "go" button **60** to initiate the search. Upon completion of the search, the user is taken to a search results page **110**, as shown in FIG. 6, that comprises the information found in relation to the user's search.

FIG. 6 refers to a search results web page **110**. The search results page **110** contains a tremendous wealth of information of interest to both consumers and retailers, particularly in times where prices are subject to rapid, volatile, and asynchronous fluctuations. Keeping ease of use in mind, the menu bar **41** is conveniently placed

horizontally at the top of the web page as well as all of the web pages in the web site. Furthermore, the search results page **110** consists of a web site path **111** that shows the user the path of web sites that he has come through in arriving at the currently viewed web page. Just below the site path **111**, is a search term area **112**, which indicates what criteria were used in order to complete the search on the web site. A graphical map window **113** is located in the center of the search results page **110**. This map **113** provides a visual depiction of where the vehicle fuel stations that met the user's search criteria are located. Alternatively, or in addition, written or spoken directions may be provided to any desired location. In addition, the map window **113** provides selection arrows **114(a)**, **114(b)**, **114(c)**, and **114(d)** in which the map may be moved in the North, South, East, and West directions to further locate vehicle fuel stations or the like, that are not readily viewable in the map window **113**. Below the map window **113**, there may be provided zoom buttons **115(a)** and **115(b)**, that allow the user to zoom in **115(a)** on a specified area contained in the map window or to zoom out **115(b)** from an area delimited by the map window **113**. After a search has been completed, information pertaining to brand name **116**, miles **117**, grade **118** or other desired information relating to various retailers are shown in chart or other suitable form at the bottom of the search results page **110**. The brand name **116** is a section that contains hypertext links that will transfer the consumer to the retailer's web page (Fig. 7). The retailer page may contain other helpful information that will facilitate determining what promotions, and services that the retailer is offering. The miles section **117** refers to the distance between the user's searched location and that of the retail outlet. The grade section **118** lists the price per gallon of a specific type or grade of vehicle fuel. This allows the user to easily compare and select the retailer that has the most attractive price while simultaneously determining how far from the consumer the retailer is. Finally, a consumer may also choose to add a particular retailer to their user profile by clicking his mouse cursor on the "+" symbol **119** located in the "Add to Profile" column. This feature of the site is beneficial in that a registered consumer does not have to complete a new search to retrieve the same retailer's information when the consumer wants to locate the retailer on a subsequent visit to the web site.

FIG. 7 refers a specific retailer page **139** that is accessed when a consumer selects and clicks on a particular brand name hypertext link **116**. This page contains brand information **71** and the corresponding grade price for each specific grade of fuel or the

like at **72**. The customer also has the option of clicking on the “Refresh Prices” hypertext link **131** to update the prices that are presently being viewed on the web page to reflect the most up to date prices that have been specified by the retailer. After viewing the retailer’s web page, the consumer can add the retailer into their personal profile by clicking on the
5 “Add to Profile” hypertext link **132**.

Another feature of the system and methods herein relates to the ability of being able to provide a price guarantee for specific commodity-like goods/services, where price is sensitive and volatile, such as with the purchase of fuel according to this embodiment. Thus, when a consumer using the invention finds a particular brand, grade, and price of
10 vehicle fuel that they wish to purchase, the consumer will get a guarantee on that price for a specific period of time set by the retailer. The consumer may receive the price guarantee by selecting the “Print Guarantee” hypertext option **133** with his mouse, or other suitable methods. By selecting “Print Guarantee” **133** the consumer is transferred to the price guarantee web page to be described hereafter. The page shown in FIG. 7 may
15 also be provided with a section entitled “Features” **134** that details any special services that the retailer may have to offer a consumer such as an ATM, Car Wash, Oil Change, Credit Cards, etc. Located in the center of the web page is the retailer’s “Address” **135** that includes items such as outlet address, phone number, email address, and world wide web address if available. Just below the retailer’s address **135**, is a “Special Messages”
20 section **136** that gives information concerning promotions and items for sale by the retailer. This “Special Messages” section **136** could allow the consumer to click on the promotional hypertext bulletin and print out a money saving coupon for an item or service.

Other features that could be offered to a consumer as a further aspect of the
25 invention, such as the ability to schedule automotive services on the retailers page on the web site. A consumer that is interested in a particular service could click his mouse on the applicable service in either the “Features” section **134** or “Special Messages” section **136** and be transferred to a service scheduling web page. This scheduling web page may contain the openings for when the consumer could bring his car in for service (i.e., tune-
30 up, oil change, etc.). Upon selecting a convenient time, the consumer would enter their personal information into the scheduling web page to complete the reservation for those services.

Turning to FIG. 8, the price guarantee **150** in this embodiment contains specific information about the retailer from which the consumer has selected to purchase vehicle fuel or other commodity-like goods/services or the like. The form of the guarantee may be of any suitable type, and that shown in this Fig. is merely an example. In the upper left corner the retailer's name **151**, address **152**, and phone number **153** are indicated. The grades of vehicle fuel **155** and corresponding prices per gallon **156** are shown as they occurred in the market when the consumer received the price guarantee. The price guarantee also indicates the date and time **157** in which the consumer printed the price guarantee **150**. The price guarantee **150** also states when the guarantee will expire **158**. If desired, the retailer could also place other limits or conditions on the guarantee, such as with respect to the volume of vehicle fuel which can be purchased at the guaranteed price as an example

Other methods of providing the price guarantee are also contemplated, such as through the use of barcode scanning technology. After the consumer has selected the particular brand and type of vehicle fuel, they will be given the opportunity to print a barcode that will contain the consumer's unique user ID, the location of the retail outlet, the time at which the consumer selected the vehicle fuel, and the guaranteed price itself. The consumer would then take this printed bar code to a bar code scanner that is placed on the retailer's vehicle fuel pump. The bar code would then charge the consumer's credit card with the applicable guaranteed price. This would drastically decrease the time that it would take to have a printed price guarantee verified by a retail associate. Furthermore, the bar code scanning technology would increase the traffic at the pump, which is at a premium when vehicle fuel prices are at higher than typical prices and the retailer has an attractive price. Finally, this technology provides speed and efficiency that many consumers demand because people do not enjoy waiting in lines to pay for basic, essential commodity-like goods/services. Other suitable methods are also contemplated, such as through the use of smart cards, flash memory cards or other suitable interfaces.

Turning to FIG. 9, the "Motorist Profile" web page **160** is shown. This page is accessed through the motorist profile hypertext button **44** or "Register Here" hypertext link **53**. The consumer is then prompted to enter basic user information **161** into the following text boxes that may include for example: first name **162**, last name **163**, consumer's street address **164**, street address #2 **165**, city **166**, state **167**, zip code **168**, phone number **169**, email address **170**. Next, the user is prompted to enter login

information **170**, which may comprise username **172**, password **173**, and verify password **174** text boxes. These pieces of information are unique to the user and provide a means to keep the consumer's user profile private. The next section is the key phrase information section **175**. This information is collected to assist a person that has forgotten their password. The key phrase information section **175** contains the Key Phrase text window **176** and Key Phrase Value window **177**. The consumer is prompted to enter a key phrase that will trigger the consumer's memory into remembering his correct key phrase value **177**. Upon entering this value, the consumer will be given his password, so that they may access their user profile. The next element of the motorist profile **160** is the list of stored outlets **178** which contains a listing of retail outlets that the consumer has chosen to keep in their user profile. The information stored on retail outlets may be comprised of the outlet's address **179**, brand name **180**, and types of vehicle fuel and corresponding price **182** of the competing retailers. The consumer can also choose to remove a specific retailer from his stored outlets section by using his mouse and clicking on the "Remove" button **183**. The consumer can also choose how he wishes to sort the stored outlets list **178** by choosing an option in the sorting preference selection box **184**. The motorist profile web page **160** also allows the consumer to use the IVR listening preference box **185**, to select what brand and grade of vehicle fuel that the consumer wishes to get information on over the IVR telephone system. Once the user has selected or updated the information on the motorist profile **160**, the user selects and click the submit button **186**.

In FIG. 10, there is shown a flow chart that describes the steps in which a consumer that has registered with system uses the IVR system. The IVR system allows a consumer to use their phone, such as by use of the touch tone phone keypad as an input device, as a means to answer pre-defined questions posed by the system. This system affords registered consumers the ability to use a standard telephone to ascertain the price of a particular brand and grade of vehicle fuel or other commodity-like goods/services which the consumer has previously selected by using the IVR Listening Preference drop box **185** via the motorist profile web page **160**. To access the IVR system, the consumer must dial a telephone number **190** that is determined by the system. Upon accessing the system, the consumer is required to enter their unique user identification and password **191**. The IVR system then determines what type of user that the caller is at **192**. This is done by either asking the caller to identify themselves as either a consumer or a retailer or by using the user's ID. After the caller is determined to be a customer **194**, the IVR

system may be used to retrieve the specific brand, type, and price of vehicle fuel **195** that the consumer has selected in their IVR listening preference drop box **185** which resides on the system data store **200**. Finally, after the price information is retrieved, it is replayed over the phone to the customer in the form of an automated voice **196** or other suitable method.

Alternatively, the consumer IVR user could be given a unique numerical code that could be used to identify the consumer, verify the outlet where the consumer wants the price guarantee, and the time at which the consumer received the price guarantee. Now the consumer can proceed to the retail store, where many vehicle fuel pumps have numeric touch pads at the pump (point of purchase), and input this code and receive the vehicle fuel at the guaranteed price which in turn is charged to the consumer's credit card. This process may again accelerate the transaction process at the pumps and allows greater turnover or throughput for each pump. Other commodity-like goods/services could also be purchased or arranged in a suitable fashion to that described with reference to vehicle fuel.

The capabilities offered by the system to the retailer are also made available through the telephone via an IVR system as shown in FIG. 10, and detailed later in this document.

FIG. 11 refers to the retailer profile web page **205**. This page is provided in order to allow retailers to register as subscribers to the system. The retailer profile page **205** consists of basic user information **206** that is to be entered by the retailer. This information may include the following as an example: first name **207**, last name **208**, retail outlet name **209**, vehicle fuel name **210**, brand name **211**, street address **212**, street address #2 **213**, city **214**, state **215**, zip code **216**, phone number **217**, fax number **218**, and email address **219**. The retailer is further prompted to choose whether to display their email address **220**, and/or prompted to enter his web site address **221**, and their retail outlet/company motto **222**. Next, the user may be prompted to enter his login information **223**, comprising username **224** and clerk's username **225**. These pieces of information provide security for the retailer so that only authorized personnel are able to update or change information that is contained in the retailer's profile. The retailer is also required to enter key phrase information so that if the retailer or retailer's clerk forgets their password, can be recalled it after giving an answer to a user determined question. Thus, the retailer must enter their key phrase **227**, such as a short question that only the retailer should know the answer to. The key phrase value **228** is the answer to the key phrase

227. A key phrase is also provided for the retail clerk so that they can access the retailer's user profile so that they can update the content of the retailer's web page if the retailer desires such access. The clerk's key phrase data is entered in the clerk's key phrase text box 229 and the answer to the key phrase is made in the clerk's key phrase value text box 230.

FIG. 12 is a continuation of the retailer profile web page 205 that contains a section called "Billing Info" 231 which must be completed before a retailer can be registered with the inventive service. This section requires the retailer to select the type of method in which the retailer will pay the site for the services provided. This is done by clicking with left mouse button one of two options; either credit card 232, or electronic funds transfer 241. If the retailer selects credit card billing 232, the retailer is prompted to select from a drop box entitled "credit card type" 233 the type of credit card that the retailer is going to use as payment. The retailer is also prompted to enter the credit card number 234, the card's expiration date 235, and the name on the credit card 236. The user is also prompted to specify which address the billing information should be sent. This task is completed by clicking the mouse on either the "above address" option 237 or on "new address" option 238. If the "new address" option 238 is selected, then the retailer is required to input the new billing address 239 and the new billing zip code 240. However, if the retailer selects electronic fund transfer 241, then the retailer must input the bank routing number 242, bank account number 243, bank name 244, name on the bank account 245, and customer security code 246.

The next section of the retailer profile web page 205 is called retail outlet information 247. This section allows the retailer to enter information about goods/services that it provides, which the retailer wants posted on its site web page 139 to be viewed by consumers. Further, this section provides boxes in which the retailer can identify the amenities and services that the retailer offers to the consumer. These items may include an ATM 249, car wash 250, auto repair 251, restaurant 252, bathrooms 253, etc. This information will be shown on the retailers web page if the retailer clicks the corresponding check box. The retailer also has the opportunity to place advertisements 256 on their web page by entering a title 257 and a message 258 in the retailer advertisements section 256 of the retailer profile web page 205. This feature of the service allows competitors to be highly responsive to another competitor's business decisions. The retailer is also given the opportunity to post special messages 259 to its

customers regarding specials or limited offers by entering a title for the message **260**, and entering a message **261**. FIG. 13 is a continuation of the retail outlet information section that is contained in the retailer profile web page **205**. The next section of retail outlet information pertains to the commodity-like goods/services that are being sold by the retailer and price guarantee information. This section allows the retailer to enter the number of hours or other time increment that the consumer has to redeem a price guarantee starting from the time the price guarantee is issued until the price guarantee expires. This is done by entering the length of time that the retailer wants to make the guarantee valid in the price guarantee box **262**. Next, the retailer is prompted to select what type or grade of vehicle fuel **265** that a price will be provided for on the web site by clicking on the corresponding "selection" box **264**. After selecting a type of good/service, such as vehicle fuel, the retailer must enter the corresponding price **266** for the particular commodity-like goods/services.

The method and system according to the invention also provides a unique opportunity for retailers to access real-time data relating to selling of commodity-like goods/services and particularly which may relate to data of competitors. The invention provides registered retailers a means of collecting and sorting current real-time data as well as the capability to access historical trend data of competitors. The system also collects raw price and purchasing data and can be used to produce custom marketing trend reports for retailers. This data may include information such as the brand name of goods, grades of goods/services, the location of goods, and the timing and frequency in which a consumer has purchased the goods/services. Traditionally, retailers must physically obtain the price data first hand or pay various third parties to gather the data, which is not often comprehensive in scope. Therefore, the system and methods are a tremendous asset to any business that participates in the competitive commodity-like goods/services market or in other business environments. The retailer profile web page **205** also allows the retailer to store and track a list of competitors. By selecting which competitors the retailer wishes to track, the retailer can view the competitors' prices for each grade or type of vehicle fuel **271**, the distance that a competitor is from the retailer **270**, the name brand of the competitor **269**, and the address of the competitor **268**, or other information. However, if a retailer is no longer interested in tracking a competitor then the retailer may remove the corresponding competitor by selecting the remove button **272**. This remove button **272** could bring up a further web page to finalize the removal of a competitor or it

could instantaneously remove the competitor's listing that is correspondingly adjacent to a particular remove button **272**. Once a retailer has selected all of the competitors that it wishes to track, they may sort them according to various criteria such as price, competitor name, and distance from retailer by selecting a criteria using the sorting preference drop box **273**. The retailer is also given the option of which types of vehicle fuel that it wishes to hear on the IVR telephone system by choosing an option in the IVR listening preference drop box **274**. Once the retailer has entered all applicable information into the retailer profile **205**, the "Submit" button **275** will forward the information to the web site and store the information for subsequent access.

The information compiled by the site relating to information on possible competitors and demographic information relating to customers may also be analyzed using appropriate software products. This information can then be presented in a useful fashion on an updated basis, such as reports, graphs or other forms to allow the user to use the data in their business planning. In this manner, the retailer can obtain information on their consumers and competitors, as well as trends or other market factors that will facilitate business operations. The capabilities offered by the system to the retailer are also made available through the telephone via an IVR as shown in FIG. 10. In order for a registered retailer to access the IVR system, they must dial a predetermined access number **190**. The retailer is then prompted for his user ID and password **191**. Next, the IVR system determines whether the user is a retailer or a consumer **192**. After ascertaining that the IVR user is a retailer **193**, the IVR system retrieves all of the types and prices of vehicle fuel that the retailer specified in the IVR listening preference drop box **274** on the retailer profile web page **205**. This data is accessed from the IVR data store **197** and the system data store **200**, which utilizes corresponding database update tools **198** and **199**. Once the retailer's IVR preferences are retrieved, the corresponding types and prices of vehicle fuel are transmitted over the phone line by using an automated voice **201**. If the retailer chooses, they may change or edit their web page, such as the prices of the types of vehicle fuel they sell, by using the telephone touch pad to enter the new price information. This new, updated information is automatically updated on the retailer's web page **139**.

FIG. 14 refers to the "Clerk Profile" web page **281**. This web page requires that the clerk enter the following information as an example: clerk's first name **282**, last name **283**, retail outlet name **284**, vehicle fuel name **285**, brand name **286**, retailer's street

address **287**, street address #2 **288**, city **289**, state **290**, zip code **291**, phone number **292**, fax number **293**, and email address **294**. Next, the clerk is asked to click a “yes” or “no” button **295** with his mouse to determine whether the clerk wishes to display his email address on their web page **139**. In addition, the clerk is prompted to enter his web site address **296**, and retail outlet/company motto **297**. The next section of the clerk profile web page is called “login information” **298** which consists of the clerk’s user name **299**, clerk’s password **300**, and a second text window called verify clerk’s password **301**. This information is required to establish and maintain security on the retailer’s web page **139** so that an unauthorized user cannot access the retailer’s web page and make unwanted changes. In the event that a retail clerk has forgotten their password, the clerk can answer a predetermined question that is established by the retail clerk which the clerk enters into the text window entitled clerk’s key phrase **303**. The clerk must then enter the corresponding answer or key phrase value **304**.

FIG. 15 is a continuation to the clerk’s profile web page **281**. In the text box entitled price guarantee **306**, the retailer may enter how long he wishes the price guarantee to be in effect. The retailer can also select which types of vehicle fuel he wants displayed on the system. The retail does this by using his mouse button and clicking a specific check box **308** in the column entitled “select” that is adjacent to the corresponding type of vehicle fuel **309**. In addition, the retailer may change or update the prices of commodity-like goods/services; or as in the embodiment shown, the price of vehicle fuels. These prices will be automatically updated on the retailer’s web page **139**. A final section of the clerk profile web page **281** called “stored outlets” **311** contains the address **312**, the brand name **313**, the miles the competitor is from the retailer in the “miles” column **314**, and the corresponding price for each type of vehicle fuel **315** sold by each competing retailer that the clerk has chosen to add to his clerk profile **281**. In addition, the clerk can sort the chart of competitors by various criteria that are listed in the sorting preference drop box **316**. The clerk may also update or change the types of vehicle fuel that are posted on the IVR telephone system by choosing the appropriate option in the IVR listening preference drop box **317**. After all changes or updates have been made to the clerk profile **281**, the clerk must then use his computer mouse and click a button entitled “submit” **318** so that the changes can take effect to the retailer’s web page **139**.

An alternate embodiment of the present invention may be implemented using a combination of a user locating system, such as the Global Positioning System (GPS), cell

phone locating or other suitable method, and mobile web browsing electronics as shown in FIG. 16. In this embodiment, a consumer that is navigating their vehicle can determine the location of vehicle fuel stations, service stations, convenience stores, hotel, restaurants, auto supply stores or other desired locations that are in proximity to the user. Specifically, the consumer will have a locating system, such as GPS navigation receiver 326 on-board the vehicle that will ascertain the consumer's location coordinates from GPS satellites 327. The system may then use a wireless method of transmission to access the system or other network 328 and upload the user's GPS location coordinates. The system may then transmit the consumer's positional data via the Internet to a mapping service 329, which has access to a system database 330 that contains the locations of various vehicle fuel stations, hotels, restaurants or other desired locations. The mapping service queries the system database 330 for the specific entity being searched and then places the locations that meet the consumer's requirements (such as distance) on a user-friendly electronic map. This map information is then transferred back to the system at 332 in HTTP form where it is then transmitted through a wireless application service provider to the customer's in-vehicle wireless device for display 331.

Furthermore, the system and methods of the invention can be easily applied and adapted to a host of other business models such as the hotel, restaurant, and medical industries. The retail consumer's ability to search, find, and locate various commercial entities which are in a close proximity to the consumer is of a very high utility. As wireless communication advances, the system of the present invention can be used by consumers and retailers or other entities to facilitate locating, selecting and purchasing goods/services.

Although the principles, particular embodiments and operation of the present invention have been described in detail, the foregoing should not be construed as being limited to the particular illustrative forms of the invention as disclosed. It will become apparent to those skilled in the art that various modifications of the embodiment shown herein can be made without departing from the spirit or scope of the invention as defined in the following claims.

What is Claimed is:

1. A system for acquiring and disseminating information related to goods/services comprising:

a user interface having at least one input device to enable a user to input information relating to predetermined goods/services, said predetermined goods/services being of a type that are relatively indistinguishable from one brand to another in end-use functionality,

a processing system to which said input information is supplied, said processing system supplying, locating and extracting information relating to said goods/services from a database, said database comprising information including at least pricing information related to said predetermined goods/services being sold at a predetermined location.

2. The system according to claim 1, wherein said goods/services are offered at a retail outlet selected from the group consisting of vehicle fuel outlets, vehicle servicing outlets, convenience food stores and combinations thereof.

3. The system according to claim 1, wherein said database includes information selected from the group consisting of type of retail outlet, location of said retail outlet, brand information, price information, goods sold, services offered, special promotions on goods/services, price guarantees on goods/services or combinations thereof.

4. The system according to claim 1, wherein said user interface is a global information system.

5. The system according to claim 1, wherein said user interface is a telephone.

6. The system according to claim 1, wherein said user interface allows a user to input said information by voice.

7. The system according to claim 1, wherein said user interface allows a user to create a profile relating to at least one factor selected from the group consisting of type of retail outlet, specified locale of said retail outlets, brand information related to goods/services, price information on goods/services sold at said outlets, services offered at said outlets, special promotions on goods/services, price guarantees on goods/services or combinations thereof.

8. The system according to claim 1, wherein said user interface allows a user to create a profile relating to at least one factor selected from the group consisting of retail outlet, brand information, price information, goods sold, services offered, special

promotions on goods/services, price guarantees on goods/services or combinations thereof.

9. The system according to claim 1, wherein said user interface allows a user to create a profile relating to at least one factor selected from the group consisting of competitor outlets of goods/services, competitor services offered, consumer demographic information, locale of outlets offering said goods/services, price of said goods/services offered by competitor outlets, market information relating to said goods/services or combination thereof.

10. The system according to claim 1, wherein said user interface is accessed by at least one communication device selected from the group consisting of a computer, wireless communication device, telephone or combination thereof.

11. The system according to claim 1, wherein said user interface is accessed by a communication system onboard a vehicle which supplies said database with information on the location of said vehicle, said system providing information on outlets of said goods/services in relative proximity to said vehicle.

12. The system according to claim 1, wherein said user interface allows a user to create a profile relating to at least one factor selected from the group consisting of retail outlet, brand information, price information, goods sold, services offered, special promotions on goods/services, price guarantees on goods/services or combinations thereof along a projected route of travel.

13. The system according to claim 1, wherein said user interface is accessed by a communication system onboard a vehicle which supplies said system with information on the location of said vehicle, said system providing information on outlets of said goods/services in relative proximity to said vehicle based upon said location.

14. The system according to claim 1, wherein said information relating to said goods/services includes a price guarantee offered by a retail outlet offering said goods/services.

15. The system according to claim 14, wherein said price guarantee is offered for a specified time period.

16. A system for acquiring and disseminating information related to goods/services comprising:

a user interface having at least one input device to enable a user to input information relating to predetermined goods/services, said predetermined goods/services

being of a type that are repeatedly purchased at intervals from retail outlets and are not generally deliverable to a consumer,

a processing system to which said input information is supplied, said processing system supplying, locating and extracting information relating to said goods/services from a database, said database comprising information including at least pricing information related to said predetermined goods/services being sold at a predetermined location.

17. A system for acquiring and disseminating information related to goods/services comprising:

a user interface having at least one input device to enable a user to input information relating to predetermined goods/services, said predetermined goods/services being sold at retail under various brands by a plurality of outlets at multiple retail locations, to the final end user,

a processing system to which said input information is supplied, said processing system supplying, locating and extracting information relating to said goods/services from a database, said database comprising information including at least pricing information related to said predetermined goods/services being sold at a predetermined location.

18. A system for acquiring and disseminating information related to goods/services comprising:

a user interface having at least one input device to enable a user to input information relating to predetermined goods/services, said predetermined goods/services being sold at retail under various brands by a plurality of outlets at multiple retail locations, and wherein the goods/services are offered at a price which varies between purchases by a consumer,

a processing system to which said input information is supplied, said processing system supplying, locating and extracting information relating to said goods/services from a database, said database comprising information including at least pricing information related to said predetermined goods/services being sold at a predetermined location.

19. A system for acquiring and disseminating information related to goods/services comprising:

a user interface having at least one input device to enable a user to input information relating to predetermined commodity-like goods/services sold at a predetermined outlets, said information including a specified locale,

6 a processing system to which said input information is supplied, said processing
7 system being adapted to supply, locate and extract said predetermined information from a
8 database, said database comprising said predetermined information including at least
9 location of said outlets in a said locale providing said goods/services.

1 20. A method for generating a database relating to goods/services sold via retail
2 outlets, comprising the steps of:

3 a) prompting a user to input information related to a retail outlet selected from the
4 group consisting of vehicle fuel outlets, vehicle servicing outlets, convenience food stores
5 and combinations thereof,

6 b) storing said input information selected from the group consisting of location of
7 said retail outlet, brand information, price information, goods sold, services offered,
8 special promotions on goods/services, price guarantees on goods/services or combinations
9 thereof in a computer readable storage medium.

1 21. The method of claim 20, further comprising the step of creating a profile relating
2 to at least one factor selected from the group consisting of type of retail outlet, specified
3 locale of said retail outlets, brand information related to goods/services, price information
4 on goods/services sold at said outlets, services offered at said outlets, special promotions
5 on goods/services, price guarantees on goods/services or combinations thereof.

1 22. The method of claim 20, further comprising the step of creating a profile relating
2 to at least one factor selected from the group consisting of competitor outlets of
3 goods/services, competitor services offered, consumer demographic information, locale of
4 outlets offering said goods/services, price of said goods/services offered by competitor
5 outlets, market information relating to said goods/services or combination thereof.

1 23. A method of providing a guaranteed price in the sale of goods/services,
2 comprising the steps of:

3 a) providing predetermined information to a consumer relating to at least the
4 price of goods/services presently being offered,

5 b) receiving an offer to purchase said goods/services from said consumer,

6 c) providing to said consumer a predetermined guarantee related to at least the
7 price of goods/services, which is authenticated at the location said
8 goods/services are offered for sale.

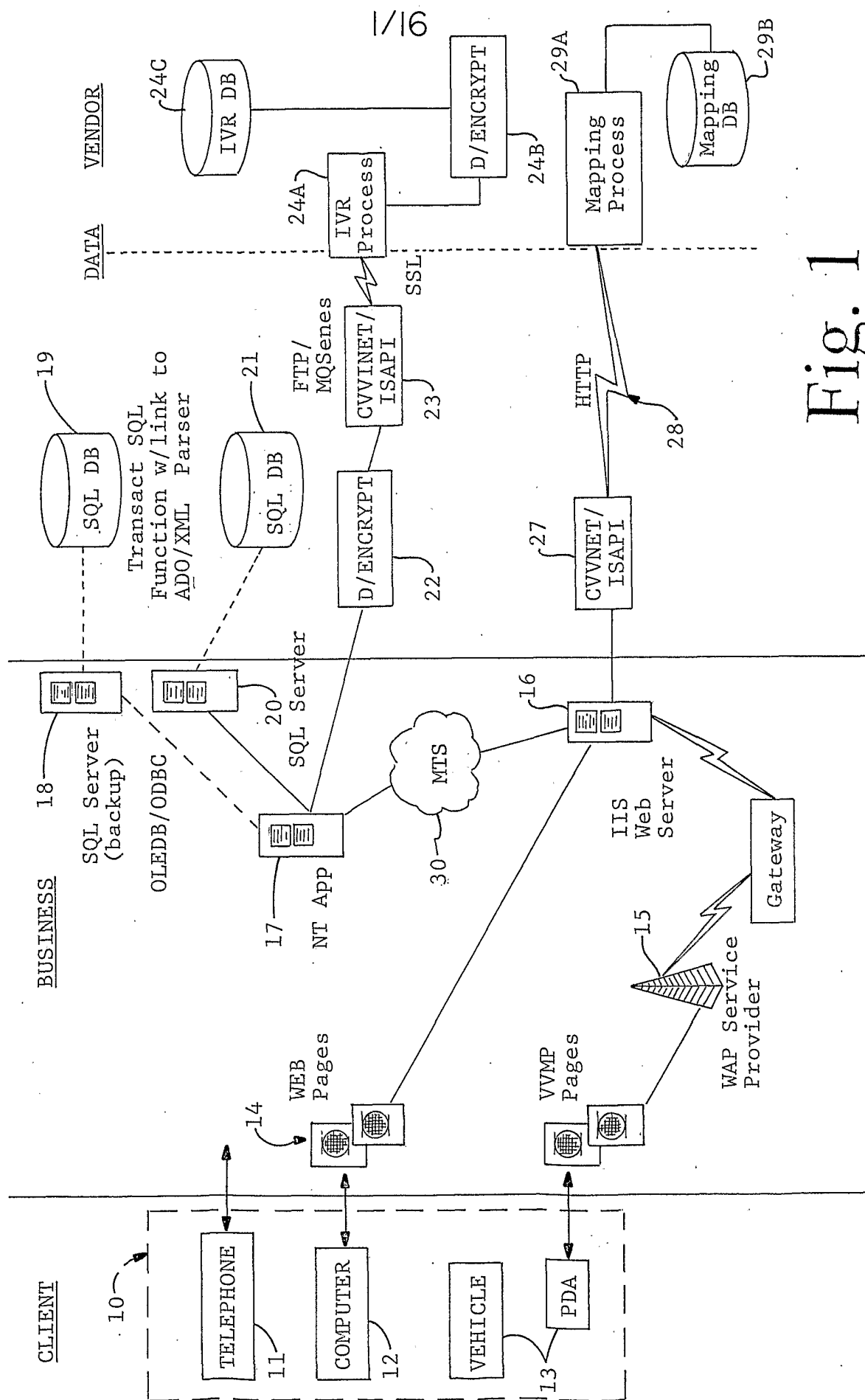


Fig. 1

2/16

The screenshot shows the zipGas.com website. At the top is a navigation bar (41) with links: Home (42), Retailers Profile (43), Motorists Profile (44), Customer Service (45), Public Interest (46), Tutorial (47), and Site Map (48). Below the navigation bar is a welcome message (49) and a search instruction (50). The search section (51) includes a search button (52) and several input fields: Address (54), City/State (55), City (56), State (57), ZIP Code (58A), Intersection (58B), and Radius (59). A 'go' button (60) is next to the search fields. Below the search section is a 'registered users' section (61) with fields for Username (50) and Password (51), a 'go' button (52), and links for 'Forgot Password?' (53) and 'Register Here' (54). To the right of the search section is a sidebar (62) with links: infoUSA.com Business Leads, PetPlanet.com Visit our Pet Family!, and travelScape.com Guaranteed Lowest Rates. At the bottom of the page is a footer (63) with links: Guaranteed Lowest Hotel Rates, travelScape.com, and Vacation Packages for Less!

Fig. 2

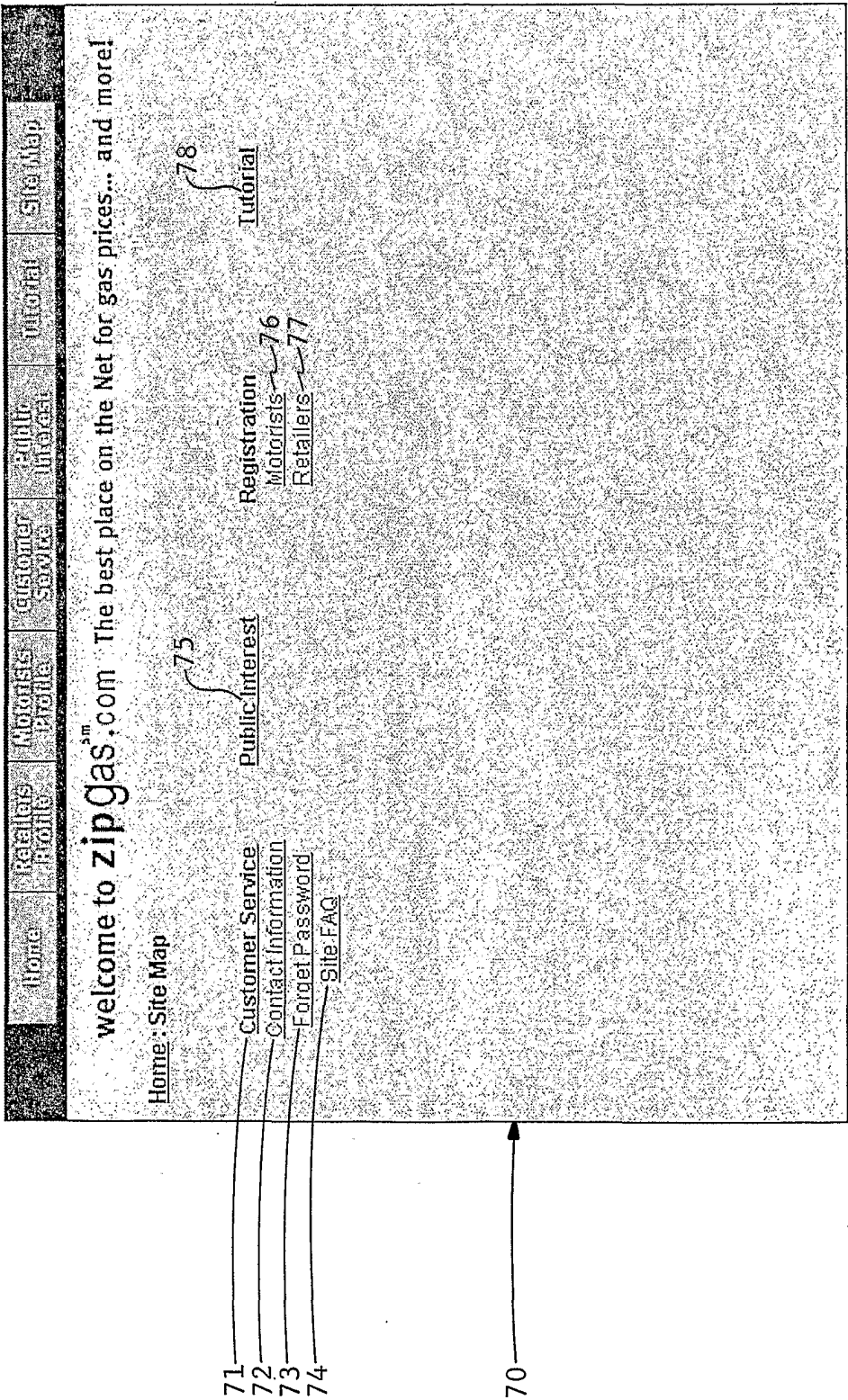


Fig. 3

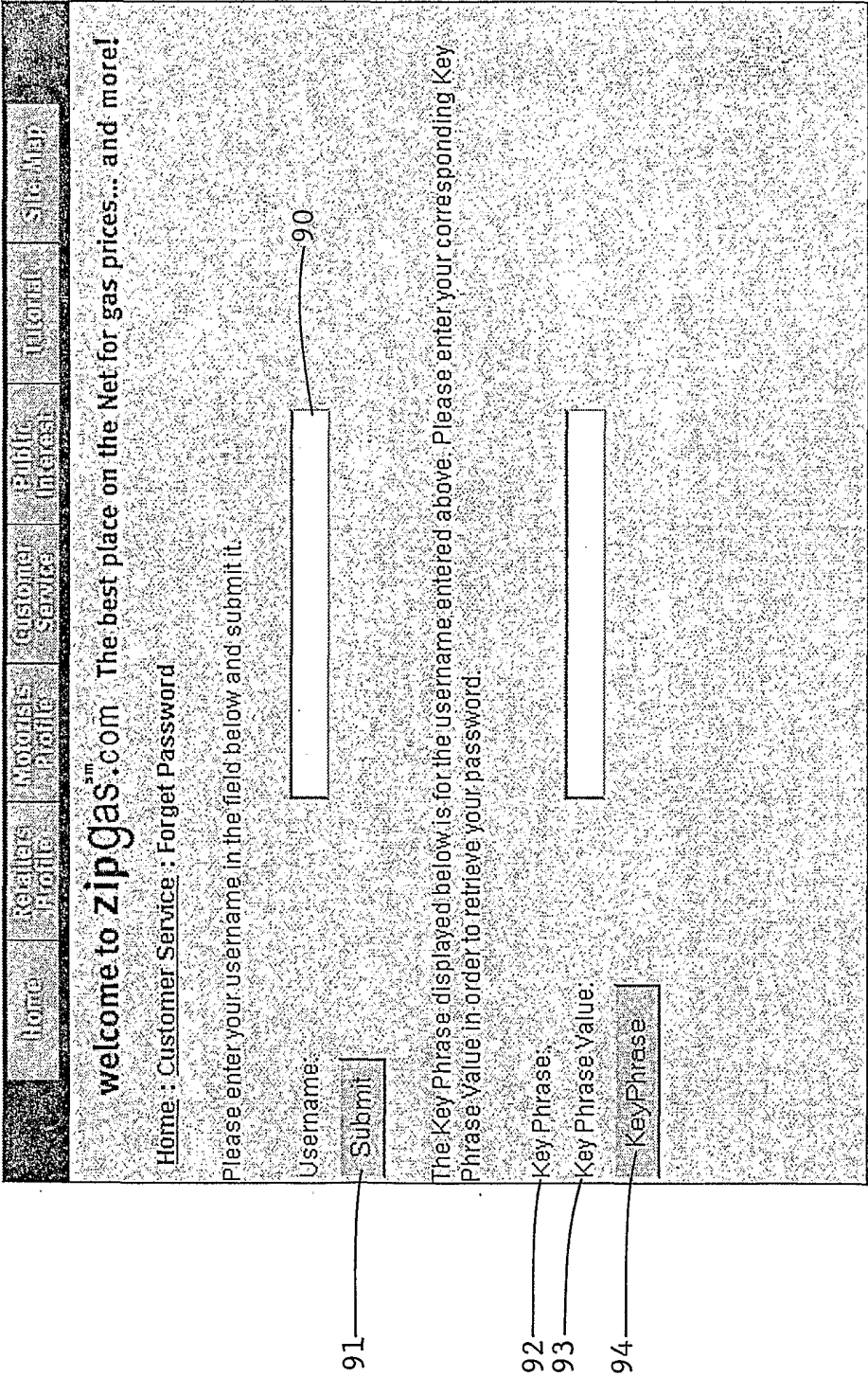


Fig. 4

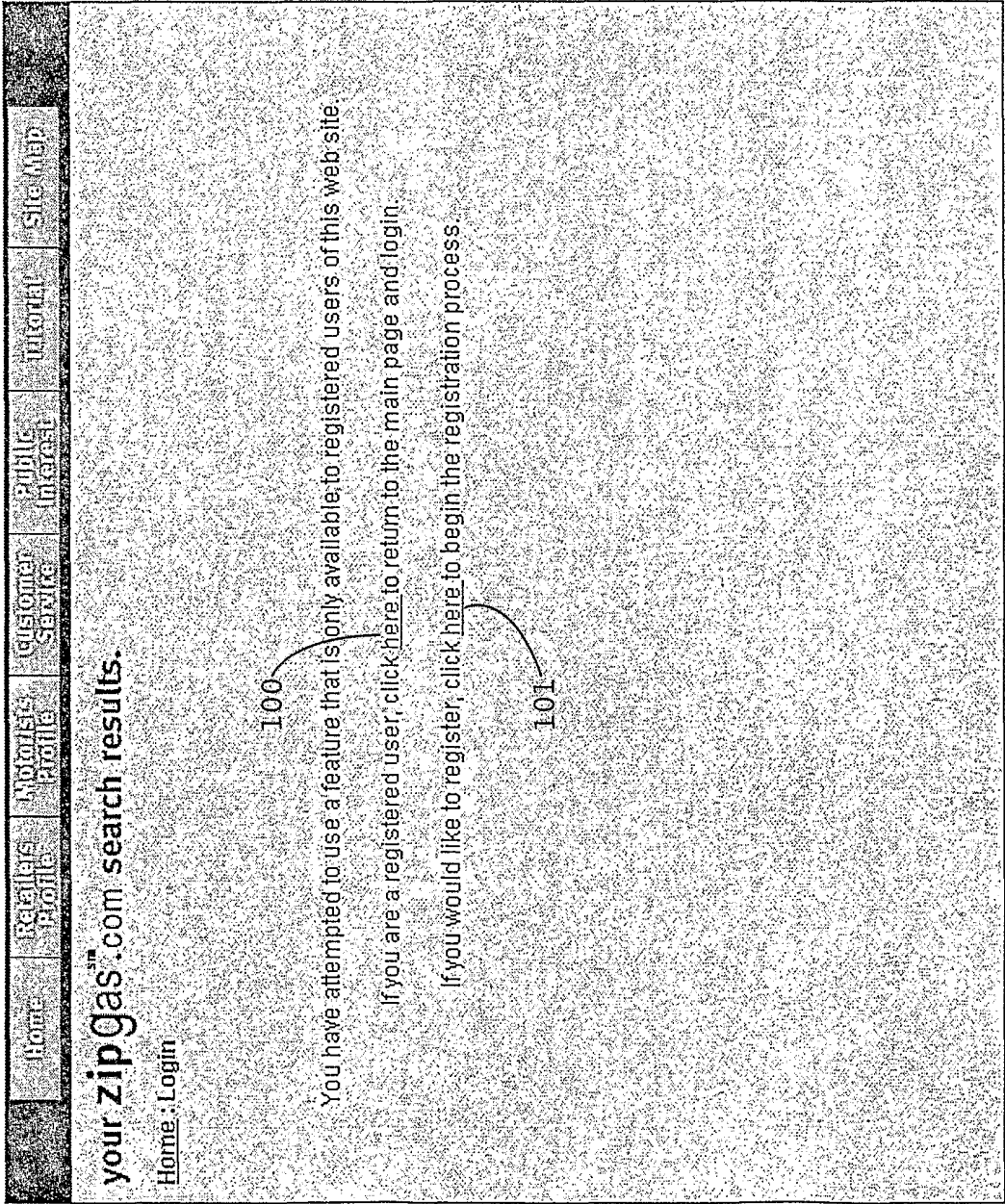


Fig. 5

6/16

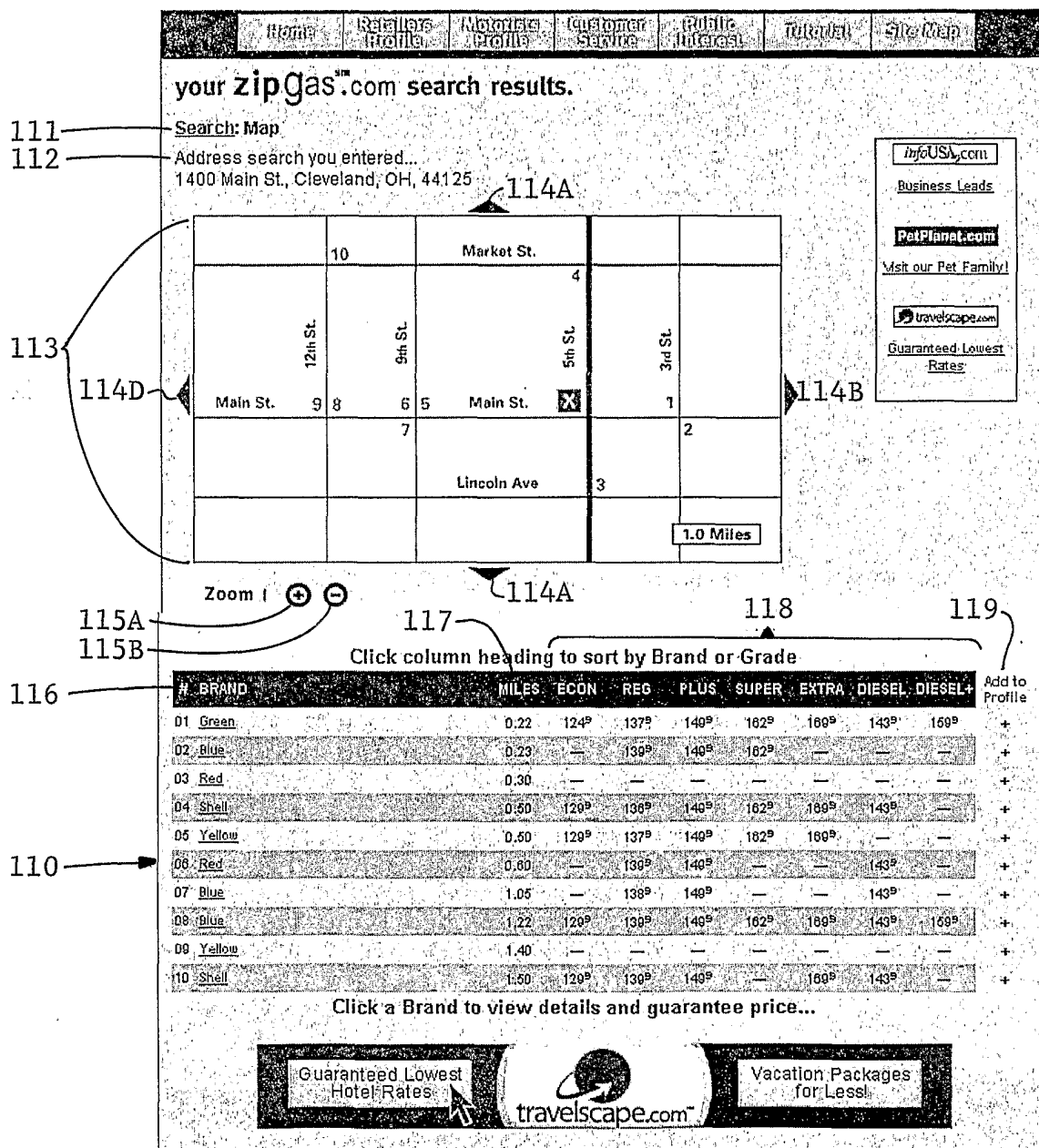


Fig. 6

7/16

[Home](#)
[Rates & Promo](#)
[About Us](#)
[Customer Service](#)
[Public Inquiries](#)
[Tutorial](#)
[Site Map](#)

zipGas.com welcomes... Fred's Super Green Service
 In your neighborhood since 1970

Search: [Map](#) [Retailer](#)

BRAND	ECON	REG	PLUS	SUPER	EXTRA	DIESEL
Green	124 ⁹	137 ⁹	140 ⁹	102 ⁹	160 ⁹	150 ⁹

[Refresh Prices](#)
[Add to Profile](#)
[Print Guarantee](#)

Features:
☐ ATM
☐ Open 24 Hrs.
☐ Car Wash
☐ Oil Change
☐ Visa/MC/Discover
☐ Towing
☐ Snack Shop

Address:
 12300 Market Street, Anytown, ST: 54451-0001
 Phone: 800-330-0033
 email: fred@supergreen.com
<http://www.brandnames.com>

Special Message(s):
 \$99.00 Tune- up
 Includes: Spark plugs, rotor, condenser and cap, set timing, carburetor adjustment, fuel and air filters. (Prices may vary for 8 cylinder vehicles.)
 \$29.00 Oil Change
 Includes: Liquid refills; filter change, tire fills. Oil change in ten minutes or less or your money back. Prices may vary with different vehicles and older models. Come in to the shop for details.

2 Hotdogs for 2 Bucks
 Good thru July
[Print Coupon](#)

No Charge ATM's
 Take out only.
 No deposits.

10% off Car Washes
 Good thru Summer 2000
[Print Coupon](#)

130

131

132

133

134

139

Fig. 7

151

152

153

154

welcome to zipgassm.com

Fred's Super Green Service

12300 Market Street, Anytown, ST. 54451-0001

Phone: 800-330-0033

155

156

157

158

150

159

	ECON	REG	PLUS	SUPER	EXTRA	DIESEL	DIESEL+
Green	124 ⁹	137 ⁹	140 ⁹	162 ⁹	169 ⁹	143 ⁹	159 ⁹

It is now.....

Your price is guaranteed until

*** Operator Disclaimer ***

June 01, 2000

9:30 AM

10:30 AM

Fig. 8

9/16

160

Home Retailer Profile Motorist Profile Customer Service Public Information Tutorial Site Map

welcome to zipgas.com The best place on the Net for gas prices... and more!

Home : Motorist Profile

Please enter/update your profile information as detailed below:

161 Basic User Information:

162 First Name:

163 Last Name:

164 Street Address:

165 Street Address #2:

166 City:

167 State:

168 Zip code:

169 Phone Number: -

170 Email address:

171 Login Information:

172 Username:

173 Password:

174 Verify Password:

175 Key Phrase Information:
The purpose of the key phrase is to assist you if you've forgotten your password. If you ever forget your password the "Key Phrase" will be displayed. Then you will be asked to enter the "Key Phrase Value". Upon successfully entering the value, you will be given your password.

176 Key Phrase:

177 Key Phrase Value:

178 Stored Outlets:

179 ADDRESS	BRAND	MILES	ECON	REG	PLUS	SUPER	EXTRA	DIESEL	DIESEL+	Remove
no outlets to display										

180 181 182 183

184 Sorting Preference:

185 VR Listening Preference:

186 Submit

Fig. 9

10/16

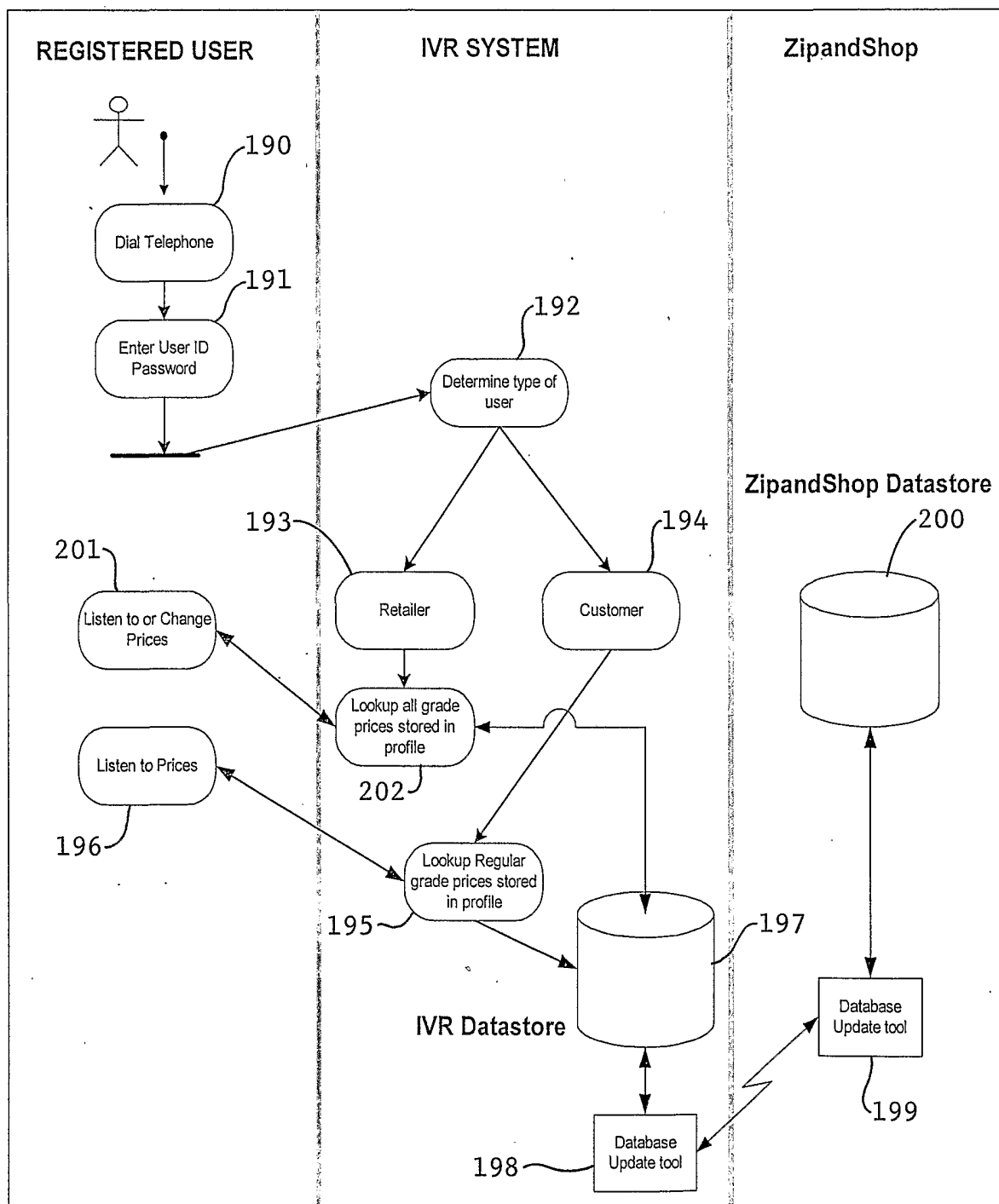


Fig. 10

11/16

205

welcome to zipGassm The best place on the Net for gas prices... and more!

Home : Retailer Profile

Please enter/update your profile information as detailed below:

206 Basic User Information:

207 First Name:

208 Last Name:

209 Retail Outlet Name:

210 Gas Name:

211 Brand Name:

212 Street Address:

213 Street Address #2:

214 City:

215 State:

216 Zip code:

217 Phone Number: -

218 Fax Number: -

219 Email address:

220 Display email address: Yes ☒ No ☐

221 Web Site Address: http://

222 Retail Outlet/Company Motto:

223 Login Information:

Your initial password and the clerk's initial password will be mailed to you using the above address. Once you receive the passwords in the mail you will have the opportunity to change them here.

224 Username:

225 Clerk's Username:

226 Key Phrase Information:

The purpose of the key phrase is to assist you if you've forgotten your password. If you ever forget your password the "Key Phrase" will be displayed. Then you will be asked to enter the "Key Phrase Value". Upon successfully, entering the value, you will be given your password.

227 Key Phrase:

228 Key Phrase Value:

229 Clerk's Key Phrase:

230 Clerk's Key Phrase Value:

Fig. 11

12/16

231

Billing Info:
 The following information is necessary for subscribing to the ZipandShop web site.
 \$XX.XX will be charged to your account on the first of the month after enrolling and every month thereafter, or until you choose to cancel your account.

☒ Credit Card
 Credit Card Type: Choose 1
 Credit Card Number:
 Expiration Date: Month Year
 Name on Credit Card:
☒ Above Address
☐ New Address
 Billing Address:
 Billing Zip Code:
☐ Electronic Fund Transfer
 Bank Routing Number:
 Bank Account Number:
 Bank Name:
 Name on Bank Account:
 Customer Security Code:

Retail Outlet Information:
 Retail Outlet Features and Amenities:
☐ ATM
☐ Car Wash
☐ Auto Repair
☐ Restaurant
☐ Bathrooms
☐ Other
☐ Other

Retailer Advertisements:

Title	Message
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Special Messages:

Title	Message
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Fig.12

262

Price Guarantee: hours

263

Product Prices:

264

Select

265

Gas Type

266

Gas Price

<input type="checkbox"/>	Economy	\$
<input type="checkbox"/>	Regular	\$
<input type="checkbox"/>	Plus	\$
<input type="checkbox"/>	Super	\$
<input type="checkbox"/>	Extra	\$
<input type="checkbox"/>	Diesel	\$
<input type="checkbox"/>	Diesel+	\$

267

Stored Outlets:

268

ADDRESS

269

BRAND

270

MILES

271

ECON

272

REG

273

PLUS

274

SUPER

275

EXTRA

276

DIESEL

277

DIESEL+

278

Remove

279

no outlets to display

280

Sorting Preference:

281

Choose 1

282

VR Listening Preference:

283

Choose 1

284

Submit

Fig. 13

14/16

281

Home	Retailers Profile	Wholesale Profile	Customer Service	Public Interest	Internet	Site Map
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welcome to zipgassm.com The best place on the Net for gas prices... and more!

Home : Clerk Profile

Please enter/update your profile information as detailed below:

282 First Name:

283 Last Name:

284 Retail Outlet Name:

285 Gas Name:

286 Brand Name:

287 Street Address:

288 Street Address #2:

289 City:

290 State:

291 Zip code:

292 Phone Number: -

293 Fax Number: -

294 Email address:

295 Display email address: Yes ☒ No ☐

296 Web Site Address: http://

297 Retail Outlet/Company Motto:

298 **Login Information:**

299 Clerk's Username:

300 Clerk's Password:

301 Verify Clerk's Password:

302 **Key Phrase Information:**
 The purpose of the key phrase is to assist you if you've forgotten your password. If you ever forget your password the "Key Phrase" will be displayed. Then you will be asked to enter the "Key Phrase Value". Upon successfully entering the value, you will be given your password.

303 Clerk's Key Phrase:

304 Clerk's Key Phrase Value:

Fig. 14

15/16

305—Retail Outlet Information:

306—Price Guarantee: hours

307—Product Prices:

308—Select

309—Gas Type

310—Gas Price

Gas Type	Gas Price
<input checked="" type="checkbox"/> Economy	\$ 1.249
<input checked="" type="checkbox"/> Regular	\$ 1.379
<input checked="" type="checkbox"/> Plus	\$ 1.499
<input checked="" type="checkbox"/> Super	\$ 1.629
<input checked="" type="checkbox"/> Extra	\$ 1.699
<input checked="" type="checkbox"/> Diesel	\$ 1.439
<input checked="" type="checkbox"/> Diesel+	\$ 1.599

311—Stored Outlets:

312—ADDRESS BRAND MILES ECON REG PLUS SUPER EXTRA DIESEL DIESEL+

ADDRESS	BRAND	MILES	ECON	REG	PLUS	SUPER	EXTRA	DIESEL	DIESEL+
5500 Franklin St	Yellow	1.40	129 ⁹	140 ⁹	149 ⁹	162 ⁹	169 ⁹	143 ⁹	—
342 South St	Green	0.23	—	139 ⁹	149 ⁹	162 ⁹	—	—	—
3465 S. Third Ave	Red	0.30	—	—	—	—	—	—	—
9812 Center Rd	Shell	0.60	129 ⁹	139 ⁹	149 ⁹	162 ⁹	169 ⁹	143 ⁹	—
9813 Center Rd	Yellow	0.60	129 ⁹	137 ⁹	149 ⁹	162 ⁹	169 ⁹	—	—
174 Broad St	Red	0.80	—	139 ⁹	149 ⁹	—	—	143 ⁹	—
7481 State Rd	Blue	1.06	—	139 ⁹	149 ⁹	—	—	143 ⁹	—
8800 State Rd	Blue	1.22	129 ⁹	139 ⁹	149 ⁹	162 ⁹	169 ⁹	143 ⁹	159 ⁹

313—314

315

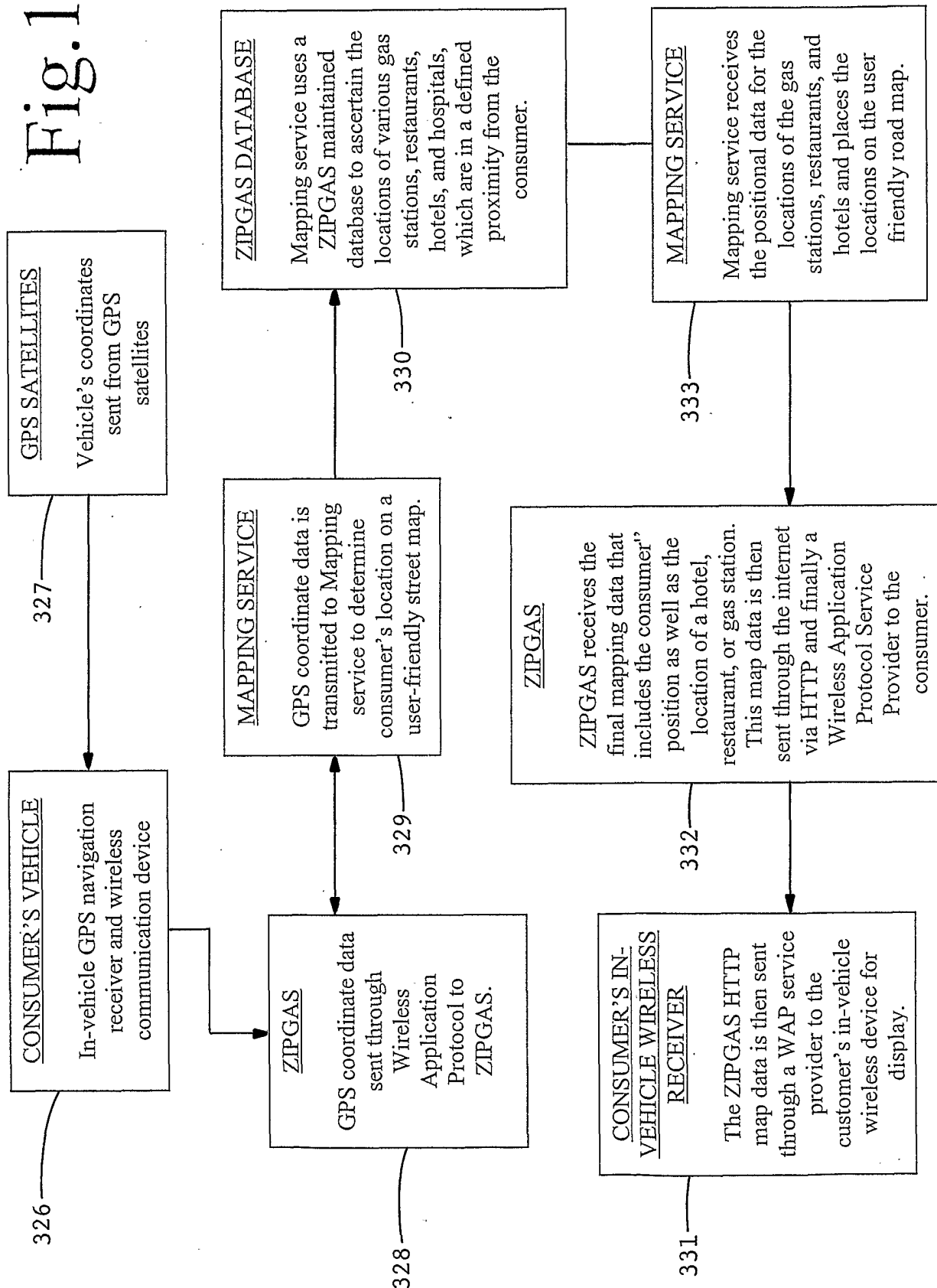
316—Sorting Preference:

317—VR Listing Preference:

318—

Fig. 15

Fig. 16



DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rules 13ter.1(c) and Rule 39)


Applicant's or agent's file reference 6985-1-PCT	IMPORTANT DECLARATION	Date of mailing(day/month/year) 06/08/2001
International application No. PCT/US 00/ 21697	International filing date(day/month/year) 09/08/2000	(Earliest) Priority date(day/month/year) 02/08/2000
International Patent Classification (IPC) or both national classification and IPC		G06F17/60
Applicant ZIPANDSHOP, L.L.C.		

This International Searching Authority hereby declares, according to Article 17(2)(a), that **no international search report will be established** on the international application for the reasons indicated below

1. ☒ The subject matter of the international application relates to:
 - a. ☐ scientific theories.
 - b. ☐ mathematical theories
 - c. ☐ plant varieties.
 - d. ☐ animal varieties.
 - e. ☐ essentially biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
 - f. ☒ schemes, rules or methods of doing business.
 - g. ☐ schemes, rules or methods of performing purely mental acts.
 - h. ☐ schemes, rules or methods of playing games.
 - i. ☐ methods for treatment of the human body by surgery or therapy.
 - j. ☐ methods for treatment of the animal body by surgery or therapy.
 - k. ☐ diagnostic methods practised on the human or animal body.
 - l. ☐ mere presentations of information.
 - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.
2. ☐ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

☐ the description
 ☐ the claims
 ☐ the drawings
3. ☐ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:

☐ the written form has not been furnished or does not comply with the standard.
 ☐ the computer readable form has not been furnished or does not comply with the standard.
4. Further comments:

Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer María Rodríguez Nóvoa
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 203

The subject-matter claimed in claims 20-23 falls under the provisions of Article 17(2)(a)(i) and Rule 39.1(iii), PCT, such subject-matter relating to a method of doing business.

Claims 1-19 relate to a conventional system for performing the business method of claims 20-23. Although these claims do not literally belong to the method category, they essentially claim protection for the same commercial effect as the method claims. The International Searching Authority considers that searching this subject-matter would serve no useful purpose. It is not at present apparent how the subject-matter of the present claims may be considered defensible in any subsequent examination phase in front of the EPO as International Preliminary Examining Authority with regard to the provisions of Article 33(1) PCT (novelty, inventive step); see also Guidelines B-VII, 1-6).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.