

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
18 October 2001 (18.10.2001)

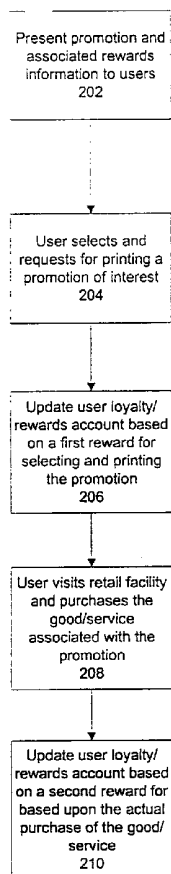
PCT

(10) International Publication Number  
WO 01/77856 A1

- (51) International Patent Classification<sup>7</sup>: G06F 15/21
- (21) International Application Number: PCT/US01/10890
- (22) International Filing Date: 4 April 2001 (04.04.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/544,144 6 April 2000 (06.04.2000) US
- (71) Applicant: BRIGHTSTREET.COM, INC. [US/US]; Suite 100, 1601 S. De Anza Boulevard, Cupertino, CA 95014 (US).
- (72) Inventors: ROBERTS, Gregory, B.; 280 Eunice, Mountain View, CA 94040 (US). WILLS, Scott; 1055 Eastwood Drive, Los Altos, CA 94024 (US).
- (74) Agents: GATTO, James, G. et al.; Hunton & Williams, 1900 K Street, N.W., Washington, DC 20006 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, 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, MZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: LOYALTY AND REWARDS PROGRAM OVER DISTRIBUTED NETWORK



200

(57) Abstract: A method and system provides a loyalty program in conjunction with an online promotions system wherein users are presented with promotions at least some of which include rewards associated with certain user actions. Where a user selects and downloads a promotion (204), the loyalty system updates (206) the user loyalty account to give credit for a first reward associated with the selected promotion. Upon the user taking a further action (208) on the promotion, such as by purchasing the good or service associated with the promotion, the loyalty system provides the user with a second loyalty reward and updates (210) the user loyalty account to reflect a credit for the second reward. The system may operate in conjunction with a point-of-sale system, wherein the second reward is instantaneously updated and presented to the user. The online promotions system presents the user with a status of current loyalty rewards received and pending loyalty rewards which could be received upon the user taking further action.

WO 01/77856 A1



**Published:**

— with international search report

*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.*

## Loyalty and Rewards Program Over Distributed Network

### Field of the Invention

5           The invention relates to loyalty and rewards program for use with Internet-based promotions and marketing systems. In conjunction with Internet-based promotions and marketing systems, the invention relates to point-of-sale systems and transactions involving loyalty and rewards programs.

### 10   Background Of The Invention

          Various known systems enable users to download coupons, rebates, and other promotions in an Internet-based system. Various known Internet based systems provide a loyalty or rewards program for frequent users. Many drawbacks and limitations exist with these known systems. Many such systems do not offer consumers the ability to monitor  
15 or receive rewards or other benefits in timely or effective manner, much less a real-time fashion. This leads to consumer disinterest and negatively effects the ability of such programs to attract consumers to the offering merchants, manufacturers, etc.

          The present invention relates to the electronic distribution of secure money saving or discount coupons and other marketing incentives and in particular to use of a centrally  
20 located online computer system for interactively distributing such coupons to remotely connected consumer computers and for collecting user-specific data regarding coupon usage and user demographic information from the remote computers.

          Millions of consumers regularly use product redemption coupons and realize substantial savings as a result. Significant time is spent clipping and sorting coupons,  
25 discarding expired coupons and organizing current coupons for use on shopping trips. Conventional coupon distribution results in significant wasted time due to consumers' attempts to manage their coupon use.

          Coupons are delivered to consumers through a variety of media. The primary coupon distribution is via pull-out sections in newspapers, which are known as free  
30 standing inserts (FSIs). This accounts for just over 80% of coupons used. Other methods of distribution include in-store shelf coupon dispensers, check-out coupons (generally

- 2 -

issued based on the customer's current purchase), register receipt coupons, in-product coupons, instant peel-off on-product coupons and direct mail coupons. In addition to manufacturers' coupons, consumers use retail store coupons, such as those issued by large retail chains on a weekly basis.

5           Some consumers use coupons on a fairly random basis. These consumers tend not to keep coupons for future use, but will review coupons available just prior to shopping to see if any of them cover products they plan to buy or if there are any for new or improved products of interest.

10           More organized coupon users maintain some form of storage system to keep coupons for future use. These consumers often clip coupons regularly from all available sources, and often have coupon filing systems by product category. They will also review their coupons regularly, discarding unused coupons which have expired.

15           For most consumers, attempts to maintain an organized coupon file often fails. The "bother" and time required to maintain organized coupon files often results in neglect of those files, even though diligent shoppers know that a consistent significant savings is easily achievable using coupons.

20           The notion of issuing product redemption coupons to consumers was an innovative idea to entice consumers to try new products in the hope that, after the first try of a new product at a coupon discounted price, they would become repeat customers at the regular price. Coupons are effective tools used in launching new products. Manufacturers also find coupons can shore up flagging sales, help reduce excess inventory or win back consumers' brand loyalty, and so coupons for existing products have become customary, so much so that today's consumers have come to expect coupons. Often, coupon price incentives significantly reduce brand loyalty, and  
25           manufacturers must issue more coupons than desired to maintain market share. Market share also has been impacted by an increase in the number and variety of competing "no-name" store brands. The competitive nature of the retail industry does not allow manufacturers to reduce coupon distribution, and in some market sectors, such as cereals, the majority of purchases are made with coupons.

30           Consumers are most familiar with FSIs as a source for manufacturers' coupons. In 1993, the coupon redemption rate from FSIs was 2.3%, and gradually declining. The

- 3 -

primary factors which keep the redemption rate low include consumers not needing or wanting the product advertised, consumers not bothering to clip coupons, losing clipped coupons or leaving them behind on shopping trips, lack of 100% distribution of newspapers, overcoupons within specific areas, and unavailability of new products  
5 when the coupon is issued.

Free standing inserts currently represents the largest share of the coupon distribution industry, roughly 80.2%. On average, manufacturers who use FSIs for coupon distribution, spend approximately \$.92 per coupon redeemed, which is the lowest redeemed cost per coupon redeemed when compared with other current coupon  
10 distribution methods. FSI coupon distribution results in high costs per coupon because of the sheer complexity of and volume of materials involved in coupon distribution and redemption. Charges to manufacturers by FSI producers cover set-up, paper, printing, freight, newspaper insertion costs, sales and marketing, overhead and profit.

Direct mail coupons accounted for approximately 4.4% of coupon distribution in  
15 1992. Direct mail coupons may be issued as part of a nationwide campaign or a regional campaign, may be cooperative or solo, and may be mass, zip-code/lifestyle/lifestage segmented or household targeted. Regional direct mail coupons are more common, and are usually limited to marketing the products and/or services of local vendors. Companies who practice database marketing make use of direct mail campaigns for delivering  
20 targeted incentives.

Run-of-Press ("ROP") Coupons accounted for 4.1% of the coupons distributed in 1992. These coupons consist primarily of stand alone newspaper advertisements with clip-out coupons. Often these advertisements are specifically placed to coincide with a relevant feature article. This form or coupon is marketed directly or through third party  
25 coupon issuers who have the nationwide newspaper distribution channels through which to place ROP coupons.

In/on pack coupons accounted for 3.5% of the coupons distributed in 1992. On pack coupons consist of an attached coupon which is removed and redeemed at the cash register at the time of purchase. In pack coupons are found within the product and act as  
30 an incentive to customers to repurchase the same product. It is estimated that the actual cost per in/on pack coupon redeemed is significantly less than that associated with other

coupon distribution methods. Most on-pack coupons are redeemed as customers pay for their purchases. However, this also means that all items are sold at the coupon discount, lowering a manufacturer's overall revenues per product more so than other types of coupons.

5           In 1992, various other coupon distribution methods represented 5% of coupons distributed. Two important coupon distribution methods in this category include shelf distribution and custom prepared coupon distribution. Thousands of stores use coupon dispensers which are attached to a product's shelf. Customers can pull out one coupon from the dispenser for the product advertised. This method of coupon distribution is  
10 designed to reach the consumer at the point of making a purchase decision, and has a redemption rate of approximately 18%.

          Check-out coupons are printed at the check-out by a printer installed at the cash register. A computer analyzes the purchases made by each customer, and can print the competitor's coupons or other coupons related to items in the current purchase. This  
15 system has a coupon redemption rate of approximately 9%.

          The coupon industry expends a great deal of resources in market research, printing, issuing, distributing and redeeming coupons, yet produces an extremely low redemption rate. This is attributed to the haphazard systems used by most consumers of manually clipping, filing, sorting through, and ultimately using the coupons, and to the  
20 high cost associated with targeting coupons to each consumer.

          Attempts have been made in the prior art to meet the needs of the coupon industry and the consumer. U.S. Patent No. 5,249,044 to Von Kohorn describes a television-based coupon reception system wherein coupon information is transmitted along with program information to a broadcast audience. A member of the audience can generate a coupon  
25 for subsequent redemption at a store.

          U.S. Patent No. 5,285,278 and 5,287,181 to Holman also teach a television-based coupon reception system. Coupon information is encoded into a television broadcast signal and decoded at the consumer's television by circuitry similar to that used for closed-caption broadcast decoding. The extracted coupon information is then recorded on  
30 a medium such as a magnetic stripe card or a microprocessor-based "smart card". The

- 5 -

user can then present the medium at the supermarket in order to automatically receive the appropriate discount.

U.S. Patent No. 5,185,695 to Pruchniki discloses an electronic paperless coupon system which obviates the need for a paper coupon in order to save printing, processing  
5 and clearinghouse costs as well as eliminating counterfeiting. Coupon redemption information is transmitted from a central system to local retailers, where coupon signs are placed near the related item. The discount is automatically applied at the point of sale without the need for the consumer to present a paper coupon.

U.S. Patent No. 5,176,224 to Spector teaches a closed-loop coupon system which  
10 consists of a kiosk type printer station located at a retail store. The kiosk is linked to the manufacturer(s) in order to obtain specific coupon information. The consumer selects the desired coupon at the kiosk, and the coupon is printed and dispensed. The consumer presents the coupon at the register, where the discount is applied and the discount transaction data is transmitted back to the manufacturer.

U.S. Patent No. 4,674,041 to Lemon et al. discloses a system with remotely  
15 located coupon printing stations capable of limiting the number of coupons printed in a given time period. Each coupon station has a display for indicating the available coupons, selection means to allow the consumer to choose the desired coupon, and coupon printer. The system disables display of a particular coupon when a preselected coupon limit has  
20 been reached.

While these aforementioned prior art attempts at providing couponing systems are useful in their own right, they fail to provide for a secure and interactive coupon generation system in which the user can request, select, store, manipulate and print coupons as desired, in which user-specific information such as demographic data and data  
25 representative of those coupons so requested, selected, printed and actually used may be provided back to the coupon issuer and distributor for more efficient coupon targeting in subsequent coupon issuance and distribution.

It is therefore an object of the present invention to provide such a coupon distribution system which overcomes the aforementioned problems and shortcomings of  
30 the prior art.

- 6 -

It is an object of the present invention to provide an electronic coupon distribution system which can be easily accessed by masses of consumers by using a readily available personal computer rather than needing to purchase special-purpose equipment.

5 It is a further object of the present invention to provide such an electronic coupon distribution system which allows a user to request transmission of coupon data and select, store, manipulate and print coupons from such coupon data.

10 It is a further object of the present invention to provide such an electronic coupon distribution system which allows the coupon issuing companies to access valuable information directly from the consumer without requiring specific and additional action by the consumer but rather by using the information from the user's personal computer regarding the consumer's selection, printing and actual redemption of coupons, as well as responses to demographic queries posed to the users.

15 It is a further object of the present invention to provide such an electronic coupon distribution system which allows a consumer to generate shopping lists associated with coupons selected and printed, in order to simplify the shopping process and promote the use of product coupons.

20 It is a further object of the present invention to provide such an electronic coupon distribution system which allows for automatic deletion of expired coupons in the user's computer database and the modification of redemption amounts of coupons in the user's database, both of which can be transparent to the user.

25 It is a still further object of the present invention to provide a secure coupon system which generates unique coupons with user-identifying data and allows the printing of a coupon only once, thus eliminating the possibility of fraud by both the consumer and the retailer.

It is a still further object of the invention to provide an efficient, low cost, zip-code/lifestyle/lifestage or household targeted coupon distribution system to tailor the incentives to each user.

An other object of the invention is to provide a Loyalty and Rewards Program for Use with Internet-Based Promotions and Marketing System.

30 It is a still further object of the invention to provide an efficient loyalty and rewards program in conjunction with an online promotions and marketing system



- 7 -

whereby consumers can receive rewards and other benefits in an essentially instantaneous manner and can monitor their loyalty accounts to determine immediately the updated status of such accounts based upon actions taken by the respective consumers.

It is a further object of the invention to process information from point-of-sale facilities to provide essentially real-time updating of loyalty and rewards transaction information in consumer loyalty and rewards accounts.

It is a further object to provide and to provide such consumers with updated information directly at a point-of-sale facility in conjunction with a consumer effecting a transaction at the point-of-sale.

10

#### Summary Of The Invention

These and other objects are addressed through various embodiments of the invention. According to one embodiment, a system and method are provided to enable users to view promotions, e.g., via a browser by accessing a web site). The promotions may be categorized in a variety of ways. For each or at least some promotions, the web site may display, along with the display of promotions, information about loyalty points associated with the promotion. For example, one promotion available from an electronics retailer's web site may be a coupon for \$50 off a particular digital camcorder. The web site may simultaneously display the camcorder, promotion information and loyalty program information, with options (e.g., a hyper-link) to obtain more information by a single user action (e.g., clicking on the desired link). According to one embodiment, when a user clicks on the loyalty link (or other icon associated with that promotion), the system will display two types of information. The first is a number of points the user will receive just for downloading the promotion (e.g., coupon). The second is the number of points the user will receive for taking some specified action, e.g., buying the product using the coupon. Preferably, the number of points for taking action is greater than the number of points for downloading.

According to another aspect of the invention, the web site comprises a user registration feature. Once a registered user accesses the web site, the system will display status information regarding the user's loyalty program account. According to one embodiment, the status information includes the current number of points accumulated

30

and the number of pending points. The pending points may represent the number of points the user can obtain if the user takes the specified action for coupons (or other promotions) that have been downloaded but not yet redeemed.

According to another aspect of the invention, the user account information is updated in real time. For example, when a user downloads a coupon, the total points for that user is updated to reflect the number of points associated with downloading that coupon and the number of pending points is updated to reflect the number of points the user will receive if the coupon is redeemed.

Optionally, the web site may be in communication with various point of sale locations so that when a coupon is redeemed by a user, that information is supplied to the web site and the user's account can be updated.

In one embodiment of the present invention a promotions system including a loyalty program includes a server system for storing promotions information and loyalty program information, a means for receiving requests from a user to view promotions, and a means for transmitting to the user promotion information including one or more available promotions and loyalty information associated with individual ones of the promotions. According to one aspect of system operation, for at least some promotions a user receives a first number of loyalty points for taking a first action associated with that promotion and a second number of points for taking a second action associated with that promotion. According to another aspect of system operation, the promotion involves downloading and receiving a coupon. According to another aspect of system operation, the system further includes means for storing loyalty program account information for registered users, wherein the account information includes current point balance information and pending point information that reflects the number of points a user may receive if certain actions are taken. According to another aspect of system operation, the system transmits to the user for display with the promotion information the user's current and pending point balances. According to another aspect of system operation the user may view information about a particular promotion, and with a single user action, receive information about loyalty points associated with that promotion. In a further embodiment of the present invention the system cooperates with a retailer, distributor, etc. at the point-

of-sale level to, among other things, receive redemption information and to effect real time updating of loyalty/rewards account balances.

Another embodiment of the present invention provides a loyalty program system used in a system for distributing and generating at a remote site coupons. The coupon  
5 distribution and generation system includes a centrally located repository of electronically stored coupon data, a transmission means operatively associated with the centrally located repository for providing data communication between the repository and a plurality of remote user computers, and a remote user computer operatively associated with the transmission means and being attached to a printer, the remote user computer adapted to  
10 request coupon data from the centrally located repository and execute a coupon data management program for generating printable coupon data. The loyalty program system includes means for transmitting to the user coupon data including one or more available coupons and loyalty information associated with individual ones of the available coupons, means for establishing and maintaining a user loyalty program account, means for  
15 providing user access to the user loyalty program account, and means for instantaneously updating the user loyalty program account based on a first loyalty reward associated with a user selecting a coupon for downloading and presenting the updated account information to the user in real-time. In another aspect of the invention, at least one of the promotions provided by the system includes a coupon offer, wherein the user may receive  
20 a first reward for downloading the coupon and a second reward for redeeming the coupon. In a further aspect of the invention the system further includes means for storing loyalty program account information for registered users, wherein the account information includes current reward information and pending reward information that reflects the rewards a user will receive upon the user taking further action.

25 Other features and functions of the invention are detailed below.

In accordance with these and other objects, provided is a system for distributing and generating at a remote site product redemption coupons comprising a centrally located repository of electronically stored product redemption coupon data, transmission means operatively associated with said centrally located repository for providing data  
30 communication between said repository and a plurality of remote user computers, and a remote user computer operatively associated with said transmission means. The remote

- 10 -

user computer in the present invention comprises interface means for providing user interaction with the centrally located repository, a memory, and a coupon data management program. The coupon data management program is implemented by the computer for requesting coupon data from the centrally located repository, for storing in  
5 the memory coupon data transmitted from the centrally located repository, and for generating printable coupon data from the stored coupon data. The remote user computer also comprises a coupon output buffer operatively associated with the data management program for storing the printable coupon data generated by said coupon data management program.

10 The present invention additionally comprises a printer for printing product redemption coupons from the printable coupon data stored in the coupon output buffer. Alternatively, the system may enable the user to transmit electronically the printable coupon data from the coupon output buffer to the centrally located repository or directly to the retailer for electronic coupon redemption.

15 As a result of the present invention, a user of the remote computer is able to request coupon data to be transmitted from said centrally located repository, and the user is able to instruct his computer to print or electronically transfer product redemption coupons generated from the transmitted coupon data. In particular, the user's computer assembles product redemption coupons for printing by using two data components; (1)  
20 fixed coupon data which is transmitted to the user's computer during an initialization or "sign-up" process and which remains stored on the user's computer for subsequent coupon generation, and (2) variable coupon data which is transmitted to the user's computer whenever he requests coupon data from the central repository.

25 Additionally, the coupon data management program of the present invention operates in conjunction with the remote computer to allow the user to select and store certain desired coupon data from the coupon data transmitted by the centrally located repository and print coupons as selected. The coupon data management program also allows the user to generate a shopping list which is correlated to the coupons printed for subsequent redemption.

30 In the present invention, the data exchange capabilities provided by the transmission medium between the remote computer and the central repository allow the

- 11 -

automatic transfer of valuable information from the remote computer to the central repository and, ultimately, to the coupon distributing and issuing centers. Information related to the coupons selected and printed can be supplied to the coupon distributors and issuers, which can also use information obtained from the various retail stores as to which  
5 coupons were actually redeemed in order to more intelligently market subsequent coupons and target coupon issuance in a more cost effective manner.

The data exchange capabilities are further advantageously utilized in the present invention to allow, via the central repository, the updating of coupon data stored in the user's remote computer without required interaction from the user if the user is online. In  
10 particular, the central repository can delete expired coupons from the remote computer's coupon database and can vary the amount of redemption value of a non-expired coupon if so desired. The capability for the updating and deleting of coupons within a user's computer is programmed in the user's computer such that no further interaction with the central repository is required for such coupons to be deleted or updated.

15 Finally, the present invention provides for secure coupon generation by allowing the printing of a particular coupon only once. Further, and quite importantly, the present invention provides for the printing on each coupon of certain user-specific data, thus making each coupon printed unique. Thus, two different users with access to printing a particular coupon will each print coupons with the same product, discount, and expiration  
20 date data, yet each will be unique since printed thereon will be user-specific data, preferably in the form of a user-specific bar code. Thus, any attempts to duplicate via photocopying techniques any particular coupon will be discouraged since the coupon redemption center will detect when a particular coupon has been redeemed, will identify the user who redeems a particular coupon, and will disallow any attempt at redemption of  
25 a second coupon with identical product and user-specific data.

#### Brief Description Of The Drawing

Fig. 1 is a block diagram schematic of the system of the preferred embodiment for the electronic distribution of coupons.

30 Fig. 2 is a detailed block diagram of the remote personal computer of Figure 1 configured in accordance with the present invention.

- 12 -

Fig. 3 illustrates exemplary data field formats of the electronic coupon data as implemented in the present invention.

Figs. 4a and 4b is a pictorial representations of the online and offline display screens, respectively, which are exhibited to a user in the present invention.

5 Fig. 5 is a diagram of a printed coupon resulting from the electronic distribution in accordance with the present invention.

Fig. 6 is a schematic block diagram illustrating the main functional areas serviced by the online service provider of the preferred embodiment system.

10 Fig. 7 is a diagram of the use of an external cue to prompt access by the user of the system.

Fig. 8 is a block diagram of an alternative embodiment of the present invention in which data is transmitted between the central repository and personal computer by satellite.

Fig. 9 is a flowchart of the operation of the present invention.

15 Fig. 10 is a schematic block diagram of the implementation of the coupon data package generation.

Fig. 11 is a schematic block diagram of an online promotions system utilizing the loyalty reward system of the present invention.

20 Fig. 12 is a flow chart illustrating the logical sequence of steps associated with one aspect of the loyalty reward system of the present invention.

Fig. 13 illustrates a sample screen shot of a webpage employing a graphical user interface for presenting promotion categories in implementing the loyalty reward system of the present invention.

25 Fig. 14 illustrates a sample screen shot of a webpage associated with the selection of a desired category of promotions from the webpage of Fig. 13.

Fig. 15 illustrates a sample screen shot of a webpage associated with the selection of a desired promotion from the webpage of Fig. 14.

#### Detailed Description Of The Preferred Embodiment

30 Referring to the system block diagram of Figure 1 and the flowchart of Figure 9, the electronic coupon distribution system of the preferred embodiment comprises a central

- 13 -

located repository of electronically stored coupon data, which in the preferred embodiment is an online service provider 2. The term online service provider refers herein to any computer-based information service provider which is accessible by a remote personal computer user via a communications data link such as the public  
5 switched telephone network (PSTN) or the like, such as PRODIGY, COMPUSERVE, or AMERICA ONLINE. In addition, it is contemplated that the electronic coupon data distribution may be carried out by connection to any readily accessible Internet site such as the World Wide Web. Referring to Figure 8, it is further contemplated that electronic coupon distribution may also be carried out via digital satellite communication links, thus  
10 avoiding the need for hardwired (i.e., PSTN) connectivity between the repository and the remote user computer. Thus, any centrally located computer system which is accessible to the public by any transmission means is contemplated as being within the scope of this invention. As used herein, the term "user" denotes an individual user or a household of users linked through one account.

15 The online service provider has stored in its database 40 (see Figure 6 and 10) various packages of electronic coupon data, the content of which will be further described below. The electronic coupon data is provided, by a coupon distributor 16 or coupon issuer 14, by any various means such as electronic transmission via the PSTN or satellite data exchange. The online service provider also stores in a demographic data file 42 user-  
20 specific data, including coupons selected data, coupons deleted data, coupons printed data and user demographics, as will be described below, for subsequent transmission to a coupon distributor 16. The coupon distributor 16 will utilize the user-specific data and coupon redemption data in compiling subsequent coupon packages targeted specifically at certain user categories.

25 The online service provider 2 is connected with the data link 4 and is thus accessible by any remote personal computer 6 having a data communications interface 20 such as a modem (see Figure 2). The online service provider communicates with the personal computer 6 in order to transmit requested coupon data, and also in order to receive coupon requests and the user-specific data mentioned above.

30 The remote personal computer 6 has connected thereto a printer 8, which may be any type of computer printer capable of printing graphics. The printer 8 is instructed by

- 14 -

the coupon data management routines 32 stored in the computer 6 in order to print printed coupons 18, as will be described in detail below.

The printed coupons 18 are used in the normal fashion by a consumer when shopping at a desired retail store 10. That is, the coupons 18 are presented to a product checkout station 11 along with the associated products for purchase, and the discount amount shown on the coupon 18 is credited to the consumer at the point of sale. The redeemed coupons 18 are transmitted to a coupon redemption center 13 where they are electronically read, and user-specific data is stored in a coupon redemption database 12.

In addition to the usual coupon information found in prior art coupons (e.g., redemption amount, company and product name, expiration date, etc.), the coupons 18 of the preferred embodiment of the present invention contain user-specific data in the form of a unique user bar code 90, as shown graphically in Figure 5. The user bar code 90 is encoded with user-specific information such as the user name and/or other unique identification criteria such as a social security number or online service address. This information renders each printed coupon 18 unique, since an otherwise similar coupon presented by a different consumer will comprise a different user bar code 90. The use of a unique coupon 18 is but one aspect of the secure nature of the present invention as will be described in detail below.

The coupon redemption center 13 receives from a number of stores 10 the coupons redeemed, verifies the value of the redeemed coupons, determines the identification of users who redeemed the coupons, and distributes the information read from the coupons 18 to the individual coupon issuer 14 and to the coupon distributor 16. In particular, information regarding the redemption amount and the redeeming store 10 is forwarded to the particular coupon issuer 14 named on the coupon 18, which then credits the redeeming store 10 with the total amount of discounts given. Of particular value in the present invention is the distribution of user-specific data to the coupon distribution center 16, which collates such user information and performs marketing analysis via a marketing analysis means 17 in order to compile subsequent coupon packages targeted specifically at certain user categories. The coupon distribution center 16 utilizes the user-specific redemption data along with user-specific demographic data supplied by the online service



- 15 -

provider 2 in order to compile subsequent coupon data download packages for use by consumers once again.

An online display screen 60 is shown in Figure 4a, which is provided to a user on a display 24 of his remote computer 6 whenever he is in online communication with the service provider 2. The online display screen 60 comprises a join service function button 62, a download coupons function button 64, a help function button 66, and an online communications button 68. When the user desires to initially register for the electronic coupon distribution service, he selects the join service function button 62 which initiates a dialog with the online service provider 2 in order to request certain demographic data from the user which will be used to target specific coupon data packages for subsequent downloading. The user has the option of providing the requested information if he so desires. In addition, an offline coupon management program is transmitted electronically to the user's computer 6 for subsequent coupon data requesting, downloading and processing.

Figure 6 illustrates the functional aspects of the online service provider 2 in the preferred embodiment of the present invention. The main features provided by the online service provider 2 are the coupon packages file 40, the demographic data file 42, the online communications server 44, and the help file 46. Each of the aforementioned features communicates with the user via the data communications interface 48.

The coupon packages file 40 comprises electronic coupon data and other types of advertising materials supplied by the various coupon issuers 14 through the coupon distributor 16. Individual users' coupon data packages are drawn from this file based on demographic data and historic buying profiles stored in the demographic data file 42. Advertisements may consist of graphics, text, recipes, competitions or other inducements or a combination thereof.

After joining the electronic coupon service, the user can order a package of electronic coupons from the online service provider 2 by selecting the download coupon function button 64. When this button is selected, commands are generated and transmitted via the data communications interface 20, through the data link 4, and up to the coupon package file 40 resident at the online service provider 2. The requested

- 16 -

coupon data package and associated advertising materials are transmitted by the online service provider 2 to the personal computer 6, where it is stored in the downloaded coupon data file 30a in the coupon database 30.

5 The demographic data file 42 contains data representative of demographic inquiries presented to a user at the time that the user requests a download of coupon data from the coupon package data file 40, as well as data representative of the users' responses thereto.

10 The online communication server 44 is accessed by the user selecting the online communication button 68. The online communication server is a bulletin board type file where users can post messages to a coupon distributor or issuer regarding any issue of interest. The message data is transferred to the appropriate destination by the online service provider 2, which also collects the responses thereto and posts them on the online communication server 44, thus allowing the user to fetch the response when logged on at a subsequent time.

15 By selecting the help function button 66, the help file 46 is used as a means for providing standard help and other useful information to a user.

20 Referring to Figure 2, the remote personal computer 6 of the preferred embodiment comprises a data communications interface 20 (such as a modem) for connecting the computer to the data link 4 (such as a PSTN), a user input device 22 such as a keyboard and mouse or other type pointing device, a display 24, and a processor 26, all of which are common to personal computers and are well known in the art. The computer 6 also comprises an output buffer 28, which typically resides in random access memory. The computer 6 is configured to operate in accordance with the present invention via a coupon database file 30 and an offline coupon data management routine file 32 loaded onto a fixed memory such as a hard disk drive. All of these internal components and files are connected to a data bus 21 for communication therebetween in accordance with techniques well known in the art.

30 The coupon database file 30 is segmented into various sections as shown in the memory map of Figure 2. The coupon database of the preferred embodiment comprises downloaded coupon data 30a, which is the entire coupon data package downloaded from the online service provider 2; selected coupon data 30b, which is a subset of the

- 17 -

downloaded data and represents specific coupons electronically “clipped” and stored therein; sorted coupon data 30c, which is selected coupon data sorted in accordance with a particular set of criteria (e.g., all fruits together, then all dairy products, etc.); fixed coupon parameters and user-specific data 30d, which is certain unvarying data used in  
5 printing the coupons as will be described in detail below; and store-specific data 30e, which is information regarding the product arrangement in a certain retail store 10 which will allow the user to prepare a shopping list tailored to the particular store.

The offline coupon data management routines 32 are executed by the processor 26 in conjunction with the coupon database 30 in order to request, obtain, store, select, sort,  
10 and print coupons as desired. The offline coupon data management routines 32 are executed by selecting a desired function button 52, 54, 56, or 58 as shown in the offline display screen 50 in Figure 4b. The offline display screen 50 is shown on the display 24 when the user runs the coupon data management program on his or her personal computer 6. The offline coupon data management routines 32 are executed in an offline fashion;  
15 that is, the user does not need to first be in online communication with the service provider 2. If a particular function button 52, 54, 56, or 58 chosen by the user initiates a routine 32 which requires online communication, that routine will initiate, control and terminate an online session with the service provider 2 automatically.

The request coupon download routine 32a is executed when the user desires to  
20 order a package of electronic coupons from the online service provider 2. This routine is called when the user selects the download coupon function button 54. When this routine is called, commands generated by this routine are transmitted via the data communications interface 20, through the data link 4, and up to the coupon package file 40 resident at the online service provider 2. The requested coupon data package and  
25 associated advertising materials are transmitted by the online service provider 2 to the personal computer 6, where it is stored in the downloaded coupon data file 30a in the coupon database 30.

Prior to downloading the requested coupon data package to the computer 6, the demographic data file 42 provides certain demographic queries to the user in order to  
30 obtain valuable information for use in marketing analysis and subsequent coupon package

- 18 -

generation. The users' responses to the queries are transmitted to the online service provider 2 and stored in the demographic data file 42 for subsequent processing.

The user may select the view function button 52 in order to view the coupons and advertisements previously downloaded. This selection will call the view coupons routine 5 32b, which will access the downloaded coupon data file 30a and present it to the user via the display 24.

While viewing the coupons and advertisement, the user may select a desired coupon for further sorting, storage, printing or deleting and/or shopping list generation by selecting or "clipping" the coupon with the mouse or keyboard input 22. Coupons are 10 clipped by scrolling through related advertisements. In order to avoid the need for clipping, the user may print or delete a desired coupon. The coupons selected in this function are stored for further processing in the selected coupon data file 30b.

The coupon file function button 56 enables the user to perform several operations on his selected coupon data file 30b. The user may view the coupons selected (from the 15 selected coupon data file 30b), and may choose any of them for printing. Further, a sortation option is provided which logically sorts, by category and subcategory, the coupons stored. Thus, the management program automatically places all the dairy coupons together, and may also place all the milk coupons together within the dairy category. This is carried out by the coupon sortation routine 32c, and is akin to the 20 manual filing system used in the prior art and will aid the user in viewing his selected but unprinted coupons in an efficient manner. The sorted coupons may be loaded into the sorted coupon data file 30c for subsequent viewing and printing. The user may optionally sort the coupons manually by his own classification.

The shopping list function button 58 calls the shopping list generation routine 32g 25 when selected by the user. This routine will allow the user to generate a list from a menu presented on the screen whichever items the user desires to purchase, and the user can store and/or print this list as desired. The items on the list are compared against coupon data stored in the coupon database 30 and the user is informed of their existence. The user may then print out those coupons along with the shopping list. Alternatively, the 30 user may select certain coupons for printing, and the item associated therewith is

automatically placed on the shopping list. Thus, in either fashion, the user's shopping list generation and coupon "clipping" tasks are conveniently merged in a timesaving manner.

The shopping list generation routine 32g may also advantageously use data stored in the store-specific data file 30e in order to prepare a shopping list tailored to an individual retail store. Thus, data regarding the layout of the store, the food items available at the store, and the like, are used by the list generation routine 32g in order to organize the purchase items accordingly. The data stored in the store-specific data file 30e may be obtained by any of several methods; by downloading from the online service provider 2, by inputting via a floppy disk memory supplied by the store, or even manually input by the user. Data for different stores can be kept in the file 30e and the user simply selects the store he intends on using at that particular time. The user may select a standard pre-programmed shopping list, his last generated shopping list, or a blank shopping list from which to commence his shopping list preparation.

The coupon upload routine 32cc is called automatically and without user request whenever user requests a coupon download package from the online service provider 2. A record is kept by the upload routine 32cc indicative of each coupon selected by the user and each coupon printed by the user. This record is sent to the demographic data file 42 in the online service provider 2, and is used for marketing analysis along with data regarding which coupons were actually redeemed, which information is obtained from the manufacturers' redemption agency or center.

Coupons are printed by the printable coupon data generation routine 32d, which is invoked by a user when he selects a print command from the coupon file function 56. This routine obtains data from two sources in the coupon database 30: the fixed coupon parameters and user-specific data file 30d, and the variable coupon data associated with the particular coupon selected for printing.

Referring to Figure 3, the data format of the fixed coupon parameters and user-specific data are set forth and include predefined border graphics which are the same for every coupon printed, redemption instructions, and a user identification bar code number. The user identification bar code number is a unique number assigned to that user, e.g. his social security number or online identification number. This number will be encoded by the printable coupon data generation routine 32d and printed as a bar code 90 on each

- 20 -

coupon 18 printed for the particular user. This information will thus be obtained by the coupon redemption center and provided to the coupon distributor 16 for demographic analysis and the like.

The unique user bar code 90 also renders the electronic coupon system of the present invention secure and virtually fraud-proof. Although a user is able to print out a particular coupon 18 only once (to be described in detail below), the coupon issuer 14 could still be defrauded by a user or retailer who might photocopy a printed coupon numerous times and fraudulently and repeatedly present it for redemption. However, in accordance with the present invention, each coupon printed by a user is unique, and the scanning of a coupon presented for redemption will be stored at the coupon redemption center. Thus, the coupon issuer will know if a particular user has redeemed a particular coupon and thus disallow further redemption of a photocopied coupon bearing the same indicia.

Referring again to Figure 3, the data format of the variable coupon parameters are set forth and include the coupon expiration date, the redemption amount, the company and product information, the UPC code, the redemption address, and the description of the coupon offer.

Thus, the printable coupon data generation routine 32d combines all this information and generates a record indicative of the unique coupon to be printed. This record is temporarily stored in the output buffer 28, where it is subsequently sent to the printer 8 for printing. In the alternative, the coupon may be redeemed electronically by sending the coupon data in the output buffer via the data communications interface 20 back to the online service provider 2. This is especially useful in the "electronic shopping mall" environment now found in many online services. The electronic coupon data could also be routed via the data communications interface 20 to a retail store where the user will be shopping, where the coupon data is held in a buffer pending purchase by the user of the matching product.

As described above, the electronic coupon distribution system of the present invention allows the printing of a particular coupon only once, thus providing for security and guarding against fraudulent redemption. This is accomplished by the coupon deletion routine 32e, which is called whenever a coupon is printed and deletes the coupon from the

- 21 -

database 30 or renders it unprintable by setting an appropriate flag. In addition, the coupon deletion routine 32e allows for automatic deletion of expired coupons by periodically checking the expiration date field of each coupon against a real-time clock found in the computer 6. Optionally, the user may voluntarily delete any coupon which is expired if the real-time clock is not set to the correct date. For the user's convenience, the online service provider 2 can check the system clock of the user's computer 6 during a communications session and, if the date is incorrect, can ask the user if he would like the date adjusted automatically.

Since the actual expiration date is always printed as part of the coupon, the function of deleting expired coupon data from the user's computer 6 is for the convenience of the user rather than for security purposes.

The system of the present invention also allows for time-sensitive deletion of certain coupon data from the user computer 6 which is unrelated to the expiration date. That is, certain coupon data may be automatically deleted from the user's computer after, e.g., one month, notwithstanding that the coupon, if printed, might have an expiration date in six months. This feature is included to prompt users who know of the time-sensitive autodeletion to promptly print (and use) coupons rather than risk having them deleted from their database.

The coupon management program also can vary the redemption value of any coupon already downloaded to the user's computer 6 without the need for specific user interaction. A coupon variation routine 32f is called which aids in this task. Again, any time that a user initiates a download of coupon data, the on-line service provider 2 can update redemption amounts for coupons whose issuers have decided to change the discount amount.

Referring to Figure 5, the secure coupon 70 generated and printed in the preferred embodiment is illustrated in detail. The secure coupon 70 comprises the following fixed components taken from the fixed coupon parameter and user-specific data file 30d: border graphics 72, redemption instructions 88, and user identification bar code 90. The secure coupon 70 also comprises the following variable components which change for each coupon selected: expiration date 78, redemption amount 74, description of the offer

- 22 -

76, company and/or product information 80, the item's UPC number 82 and the associated UPC bar code 84, and the redemption address 86.

Referring to Figure 10, the generation of coupon data packages by the coupon distributor 16 will be explained. The information collected by the coupon distributor 16 from the online service provider 2 regarding the coupon data selected by the user, the coupon data printed by the user, and the requested demographic information is stored in a database 11. The database 11 also stores information from the coupon redemption center 13 regarding the coupons actually redeemed by the user. The database 11 further stores information regarding all coupons which are made available by the various coupon issuers 14 from which it will generate coupon data packages for subsequent downloading to users.

The information stored in the database 11 is input to the marketing and targeting analysis means 17, which carries out the function of analyzing the aforementioned information in a manner known in the art to arrive at different coupon packages. That is, it may be determined by the analysis means 17 that users with dogs in their household (which is known by the demographic responses) will get a certain package comprising dog food coupons. It may be further determined that users who select, print and redeem dog food coupons of Brand X will get coupons issued by Brand Y, or will get only low value coupons since they are already dog food coupon users, etc. That is, depending on the marketing and targeting criteria and objectives, the analysis means will generate coupon packages as desired.

Thus, the analysis means generates a number of differing coupon data packages for transmittal to the online service provider 2. The analysis means also provides specific mapping information which will instruct the online service provider as to which user should be provided with which package(s). For example, user 1 may be mapped to coupon data packages 2 and 3; user no. 2 to packages 3 and 6, etc. This mapping function may be carried out by the coupon distributor and provided to the online service provider at regular intervals, e.g. once per week. Thus, the coupon selection, printing and redemption habits may be analyzed over a time period and used to determine the subsequent targeted packages.



In addition to mapping certain coupon data packages to certain users, certain advertising packages may be mapped to the users in a similar fashion.

In accordance with the present invention, the marketing analysis, coupon packaging, and coupon package distribution functions carried out by the coupon distributor 16 may be carried out at the central data repository, i.e. Internet web site. Further, the coupon redemption and user redemption information processing functions individually carried out by the coupon redemption center 13 and the individual retail stores 10 may be combined into a single redemption center, as shown by the dotted line in Figure 1. The physical layout of the functions within the system of the present invention is a matter of practicality and choice of the systems designer and does not impact the utility of the present invention.

In an alternative embodiment of the present invention, the user is provided with a visual or auditory stimulus or cue to suggest an access of the electronic coupon distribution system. Referring to Figure 7, a message or logo may be included along with the advertising material normally provided on television, in the newspapers, and the like. This will indicate to a user that he should access the online service provider 2 in order to obtain coupon data related to the advertised product. The availability of the coupon could be time-sensitive, which would provide further incentive to the user to use the system in a prompt and efficient manner. When the radio media is used, a tonal or spoken cue may be included during the advertising message to accomplish the same result.

The amount of redemption discount included with a coupon downloaded to a user may be varied depending on certain demographic information that the system has about the user. For instance, the system may provide a certain value for known users of a brand (which information it will obtain by demographic inquiry or through previous redemptions in the system), and it may provide a higher discount in order to provide an incentive to users of a competitive brand. The ability to vary the value of a discount offer in accordance with such demographic and usage data is a unique advantage offered by the system of the present invention and heretofore unavailable in the prior art.

Referring to Figure 8, an alternative means of communication between the online service provider 2 or the coupon distributor 16 and the remote computer 6 is illustrated. A satellite communications apparatus 94 is advantageously used to provide a wireless

- 24 -

data link 4. In this embodiment, the data communications interface 20 is a satellite antenna dish or other transceiver unit which provides operative communication between the remote computer 6 and the satellite 94. A similar unit is located at the online service provider 2 in order for full wireless data communications to be achieved.

5           The flowchart of Figure 9 illustrates the flow of information in the system of the present invention. The information flow illustrated therein has been described in detail in connection with the implementing system.

          In a further alternative embodiment of the present invention, the functions of the online service provider 2 are carried out at a site on the Internet. That is, a user may  
10       access the coupon data repository by accessing an appropriate Internet site. In this embodiment, the downloaded coupon management routines are encoded with a unique user identification number, which may be for example the user's e-mail Internet address. When the user requests coupon data packages to be transmitted, the user identification number is encrypted and sent to the Internet site along with the request. Appropriate  
15       routines are implemented at the Internet site to decrypt the user's identification number and compare it against a list of valid members in order to ensure the validity of the user.

          In another alternative embodiment of the present invention, all coupon data management functions are carried out by the online service provider 2 rather than by the offline coupon data management routines 32. In this case, the speed of access of the  
20       online service provider 2 must be high, for example on the order of 28.8kbps. When high speed communications are used, the need for offline data manipulation is eliminated and all processing can be carried out in an efficient manner while connected to the online provider 2.

          Referring to Fig. 11, an online promotion system or service 132 communicates  
25       with a plurality of remote users 134 to provide access to a plurality of promotions associated with goods or services. A user, upon identifying a promotion of interest, may select and download the desired promotion, which may include a coupon or other incentive for use in purchasing the associated good or service. In one manner, the online promotion service transmits coupon data to the user for generating and printing a coupon  
30       136 via an attached printer. In accordance with one aspect of the present invention, the online promotions system provides the user with a user loyalty account and, upon the user

- 25 -

selecting and downloading a promotion, updates the user account to credit a reward associated with the user's act of selecting and downloading the promotion. The rewards may be any form of incentive, including loyalty reward points which may be accumulated and redeemed for purchases, rebates, etc.

5           As intended, the user takes the printed coupon 136 and presents the coupon to a retailer or the like at a point-of-sale facility 138 in conjunction with making a purchase of the good or service associated with the promotion and coupon. In the alternative, rather than downloading and printing a coupon at the user site, the system may provide an electronic means for acting on the promotion, such as by forwarding via electronic mail a  
10           message and promotion data to a retailer, or e-tailer, for benefit of the user. Also, a direct link to an online retail site may be presented to the user to make the use of the incentive more convenient to the user and provide the retailer or manufacturer with a more powerful method of consummating the transaction. Also, where the user is accessing the promotions in a wireless fashion, such as by a mobile phone, PDA, notebook computer,  
15           onboard vehicle computer or other such appliance that is not conveniently coupled with a printing device, the promotion data may be preferably forwarded in an electronic fashion.

          Upon the user making the intended purchase, the system provides the user with a second reward, typically of significantly greater value than the first reward, and updates the user's loyalty account. The updating of the account may be done upon the system  
20           receiving the redemption data in a non-real-time fashion or, as shown in Fig. 11, in real-time fashion by having the point-of-sale facility in communication with the online promotion system. Further, the system can accommodate presenting the user with the updated information at the point-of-sale.

          As shown in Fig. 12, the online promotion system includes a loyalty program  
25           module 142, a user module 144, and a promotion module 140, as well as associated databases 146, 148 and 150. As described hereinabove, the functionality associated with the online distribution of incentives as well as the online loyalty rewards program may be accomplished using intermediary facilities, such as redemption clearing houses, direct promotion issuer facilities, etc. Also, the remote user terminal 134 may be a computer at  
30           the user's residence or place of business, a wireless device, a kiosk at a retail facility or other public facility, etc.

- 26 -

The flow chart of Fig. 12 illustrates the logical steps associated with the loyalty reward program conducted over the distributed network of Fig. 11. As referenced generally by numeral 200, the step 202 involves presenting the user with promotions, such as offers for discounts on goods or services. At 204 the user selects a promotion of interest and downloads an incentive associated with the promotion, such as a coupon for printing at an attached printer. At 206, the system updates the user's loyalty rewards account based upon a first defined reward associated with the step 204 of selecting and downloading the promotion offer. Upon the user presenting the downloaded incentive to a retailer in conjunction with purchasing the associated goods or service, the system receives redemption confirmation and updates the user's reward account based on a second reward associated with the purchase of the good or service. Although the loyalty reward system is described as being used in conjunction with an incentives system, it should be understood that the invention is not so limited and may be used wholly independently of such an incentives system. For instance, the reward program itself may be the incentive offered to potential consumers to motivate them to purchase a good or service.

One example of a manner of presenting promotions and the loyalty reward program to consumers is over the Internet at a website on the World Wide Web. An example of a webpage 220 in such a system is illustrated in Fig. 13. The webpage includes various links and buttons to facilitate user access to promotions, user accounts, product information, and other items of interest. In the example of Fig. 13, six promotions categories 222 are presented to the user. To entice the user to engage the link to the various categories, the user is shown the number of coupons available in that category as well as the total savings associated the promotions. The user is presented with a display 224 of the user's loyalty reward account, including current reward status, as shown in the form of points, and pending reward status. Links to these items may be provided to present the user with an itemized listing of the individual rewards received as well as the pending rewards. Also, the user may review and edit the member profile by engaging the link 234. Other categories of interest may be presented such as at coupon category section 226.

- 27 -

Upon the user selecting a category 222, the user is presented with category webpage 221 and a list of individual promotions 222a through 222f. Each of the individual promotions may include links to additional information concerning the offer, the product or the reward. Also, each individual promotion displays the associated reward  
5 for selecting the promotion for downloading and may also display the reward for purchasing the good or service associated with the promotion. A print button 228 is provided to enable the user to print coupons or the like associated with clipped promotions. A link 230 may be provided to link the user directly to the source of goods or services or to a retailer or e-tailer and to facilitate purchase of the good or service.

10 Fig. 15 illustrates an individual promotion 240 that is presented to the user upon the user selecting one of the promotions 222a through 222f. The promotion includes a product logo and/or graphic illustration 242 of the product associated with the promotion and the loyalty reward program information, such as a first reward 244, for printing the coupon, and a second reward 246, received upon the user purchasing the good or service  
15 or taking some other desired action. Further, there may be additional rewards associated with the user taking any of a number of desired actions associated with the promotion or the related business. Additional promotion information and links 250, 252, 254 are provided to assist the user.

Associated with the loyalty reward program may be a webpage directed to  
20 presenting different goods, services or other benefits, such as vacations, free or discounted travel or lodging, free tickets to events, such as sporting events, etc. that may be obtained upon redemption of the user's collected loyalty rewards, such as points. Also, a service provider, such as an airline, may use the loyalty reward program described herein in  
25 conjunction with another rewards program. Also, multiple companies may become affiliated to provide a loyalty program wherein the goods and services offered by the various members of the association are offered to the users for redemption of reward points.

Other embodiments and uses of the invention will be apparent to those skilled in the art from consideration of the specification and practice of the invention disclosed  
30 herein. The specification and examples should be considered exemplary only and do not limit the intended scope of the invention.

**CLAIMS:**

1. A promotions system including a loyalty program, the system comprising:  
a server system for storing promotions information and loyalty program  
information;  
5 means for receiving requests from a user to view promotions; and  
means for transmitting to the user promotion information including one or  
more available promotions and loyalty information associated with individual ones of the  
promotions.
2. The system of claim 1 wherein for at least some promotions, a user may  
10 receive a first reward for taking a first action associated with that promotion and a second  
reward for taking a second action associated with that promotion.
3. The system of claim 1, wherein at least one of the promotions comprises a  
coupon offer, and wherein the user may receive a first reward for downloading the coupon  
and a second reward for redeeming the coupon.
- 15 4. The system of claim 1, wherein the system comprises means for storing  
loyalty program account information for registered users, the account information  
including current reward information and pending reward information that reflects the  
rewards a user will receive upon taking further action.
5. The system of claim 4, wherein the system transmits to the user for display  
20 with the promotion information, the user's current and pending rewards.
6. The system of claim 1, wherein the user may view information about a  
particular promotion, and with a single user action, receive loyalty reward information  
associated with that promotion.
7. In an online promotions system in communication with a point-of-sale  
25 system, the online promotions system having a server system adapted to receive requests  
from a plurality of users to view promotions and a database for storing promotions  
information, user profile information and loyalty program information, a loyalty program  
module comprising:  
means for transmitting to the user promotion information including one or  
30 more available promotions and loyalty information associated with individual ones of the  
promotions;

- 29 -

means for establishing and maintaining a user loyalty program account;  
means for providing user access to the user loyalty program account; and  
means for instantaneously updating the user loyalty program account based  
on a first loyalty reward associated with a user action performed over the online  
5 promotions system and presenting the updated account information to the user in real-  
time.

8. The loyalty program module of claim 7 further comprising: means for  
receiving redemption information from the point-of-sale system and for performing a real-  
time update of the user loyalty program account based on a second loyalty reward  
10 associated with a user action performed at the point-of-sale.

9. The loyalty program module of claim 7, wherein at least one of the  
promotions comprises a coupon offer, and wherein the user receives the first loyalty  
reward for downloading the coupon and a second loyalty reward for redeeming the  
coupon.

15 10. The loyalty program module of claim 7, wherein the system comprises  
means for storing loyalty program account information for registered users, the account  
information including current reward information and pending reward information that  
reflects the rewards a user may receive if certain actions are taken.

11. The loyalty program module of claim 10, wherein the system transmits to  
20 the user for display with the promotion information, the user's current and pending  
rewards.

12. The loyalty program module of claim 7, wherein the user may view  
information about a particular promotion, and with a single user action, receive loyalty  
reward information associated with that promotion.

25 13. A method for providing a loyalty program in an online promotions system,  
the method comprising the steps of:

presenting by the online promotions system a plurality of users at remote  
terminals at least one promotion, a multi-level loyalty reward being associated with the  
promotion;

- 30 -

providing by the online promotions system a loyalty program account to a user wherein loyalty rewards associated with selected promotions are maintained, the user loyalty account being accessible by the user;

5 selecting and downloading by a user a promotion and receiving a first level loyalty reward based upon the selection and downloading;

updating by the online promotions system the user loyalty account to include the first level loyalty reward associated with the selected and downloaded promotion;

10 presenting for redemption by the user the selected and downloaded promotion in conjunction with the user purchasing a good or service associated with the selected and downloaded promotion;

providing by the online promotions system to the user a second level loyalty reward upon the user purchasing the good or service associated with the selected and downloaded promotion; and

15 updating by the online promotions system the user loyalty account to include the second level loyalty reward associated with the selected and downloaded promotion.

14. The method of claim 13 further comprising the step of providing a pending loyalty reward record associated with selected and downloaded promotions which the user  
20 has not purchased the associated good or service.

15. The method of claim 14 further comprising the step of presenting by the online promotions system the status of the user loyalty account, including a first listing of current received loyalty rewards and a second listing of at least one pending loyalty reward.

25 16. The method of claim 15, wherein the status of the user loyalty account is presented simultaneously with presenting the user with one or more promotions for selecting and downloading.

17. The method of claim 16, wherein the selecting and downloading step includes printing a coupon associated with the promotion.

30 18. In a system for distributing and generating at a remote site coupons, the system including a centrally located repository of electronically stored coupon data, a



- 31 -

transmission means operatively associated with the centrally located repository for providing data communication between the repository and a plurality of remote user computers, and a remote user computer operatively associated with the transmission means and being attached to a printer, the remote user computer adapted to request  
5 coupon data from the centrally located repository and execute a coupon data management program for generating printable coupon data, a loyalty program system comprising:

means for transmitting to the user coupon data including one or more available coupons and loyalty information associated with individual ones of the available coupons;

10 means for establishing and maintaining a user loyalty program account;

means for providing user access to the user loyalty program account; and

means for instantaneously updating the user loyalty program account based

on a first loyalty reward associated with a user selecting a coupon for downloading and presenting the updated account information to the user in real-time.

15 19. The system of claim 18, wherein at least one of the promotions comprises a coupon offer, and wherein the user may receive a first reward for downloading the coupon and a second reward for redeeming the coupon.

20 20. The system of claim 19, wherein the system comprises means for storing loyalty program account information for registered users, the account information including current reward information and pending reward information that reflects the rewards a user will receive upon the user taking further action.

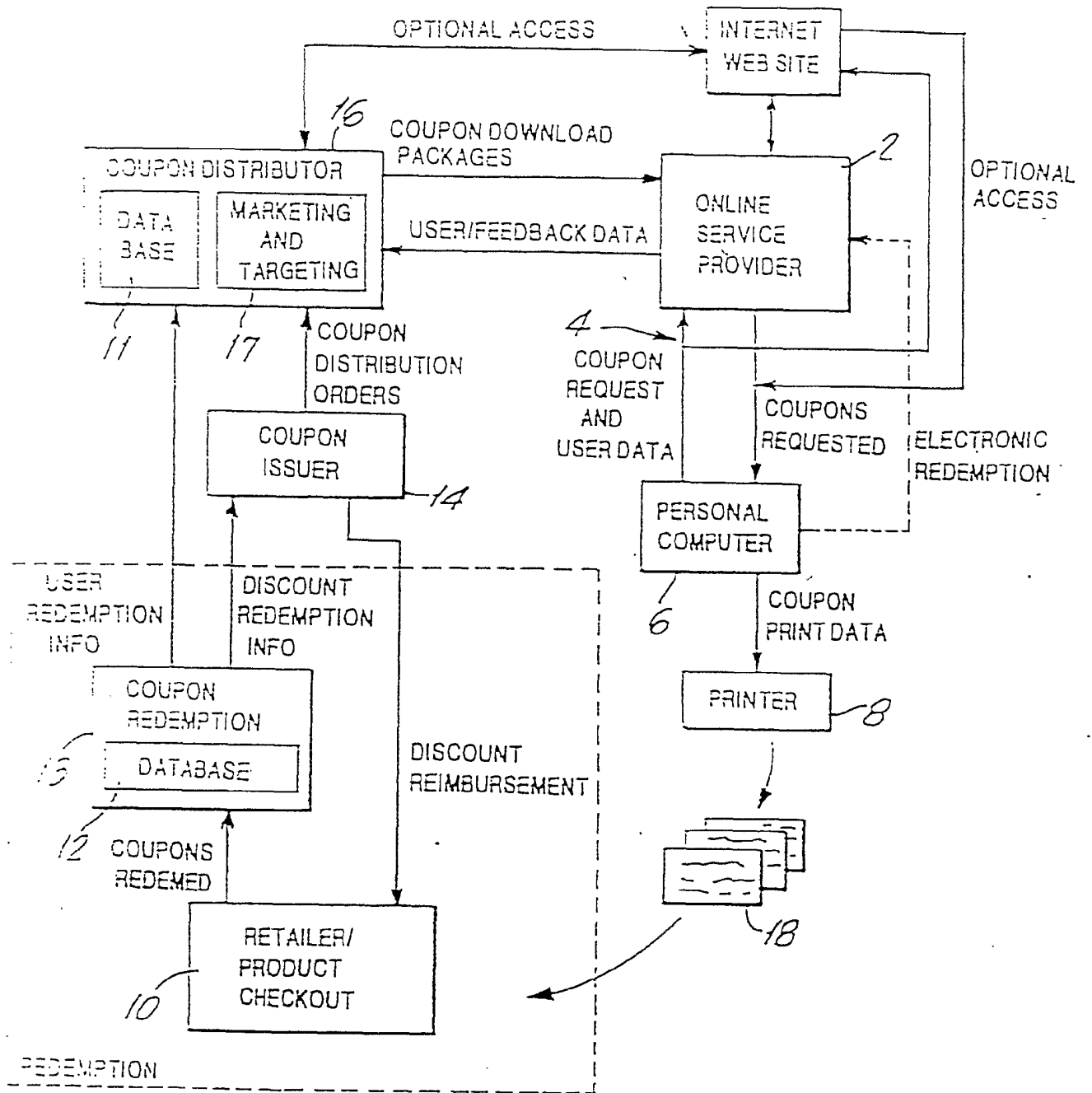


FIG.1

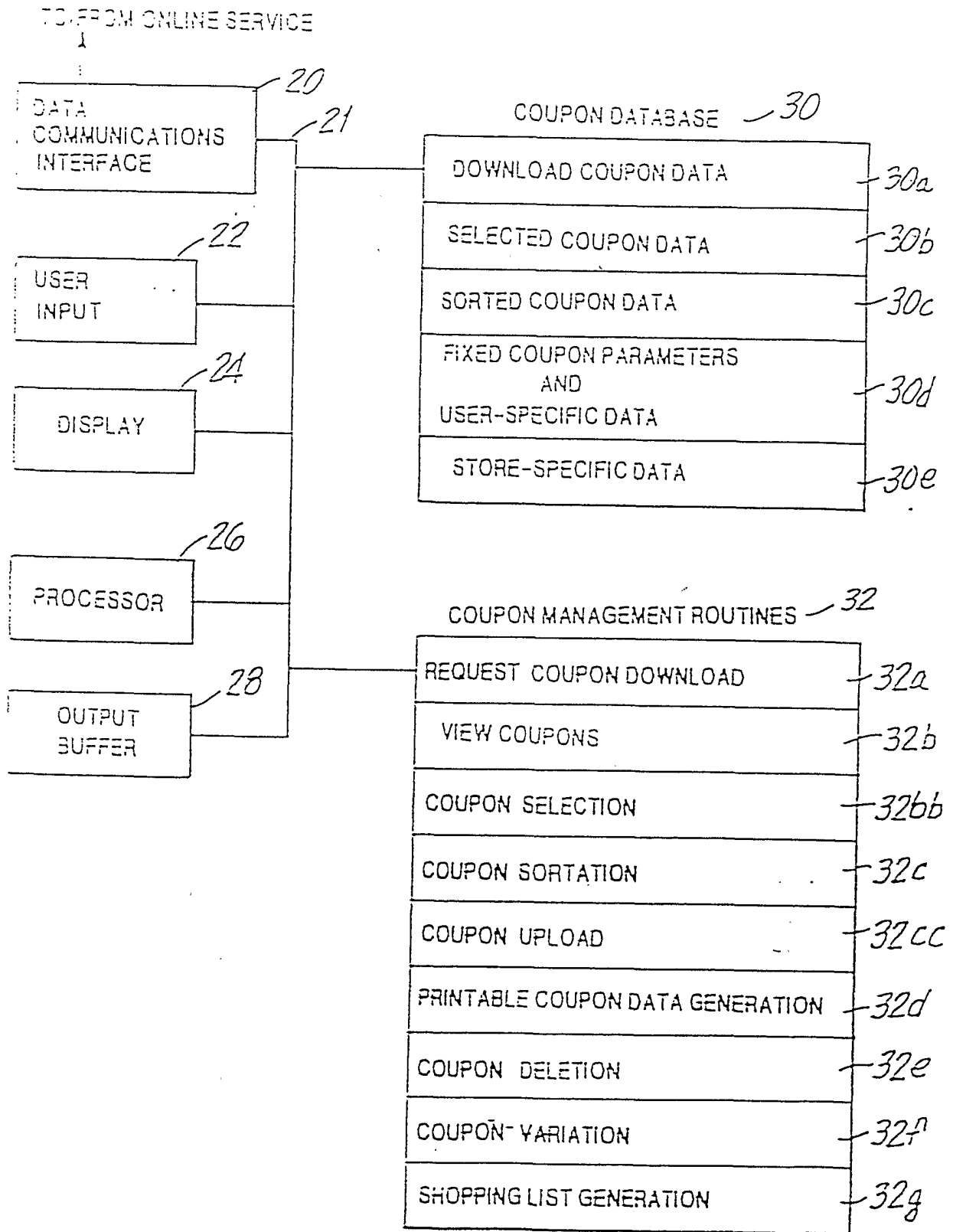


FIG. 2

EXPIRATION DATE	REDEMPTION AMOUNT	COMPANY AND PRODUCT DATA	UPC CODE	REDEMPTION ADDRESS	OFFER DESCRIPTION
--------------------	----------------------	--------------------------------	-------------	-----------------------	----------------------

VARIABLE COUPON DATA FIELDS

BORDER GRAPHICS	REDEMPTION INSTRUCTIONS	USER ID BAR CODE
--------------------	----------------------------	---------------------

FIXED COUPON DATA FIELDS

FIG.3

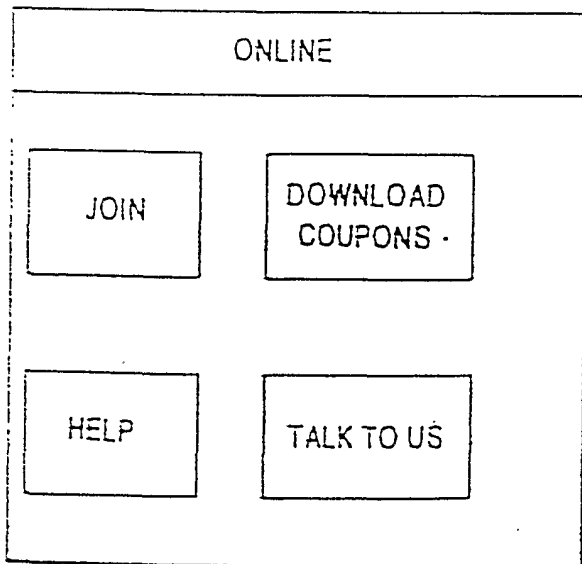


FIG.4A

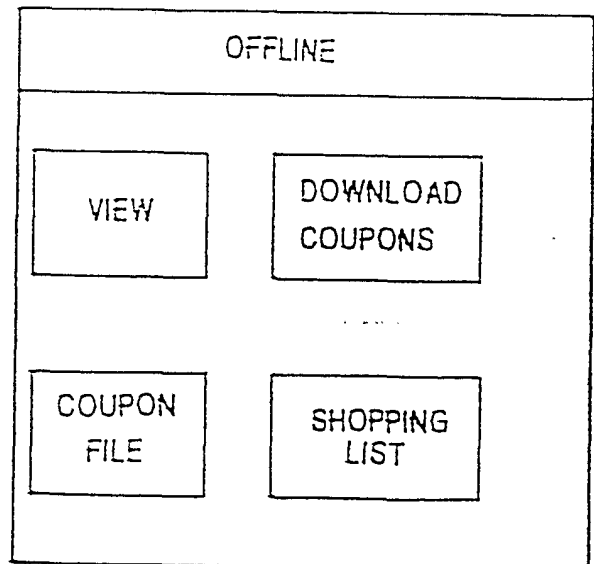


FIG.4B



FIG. 5

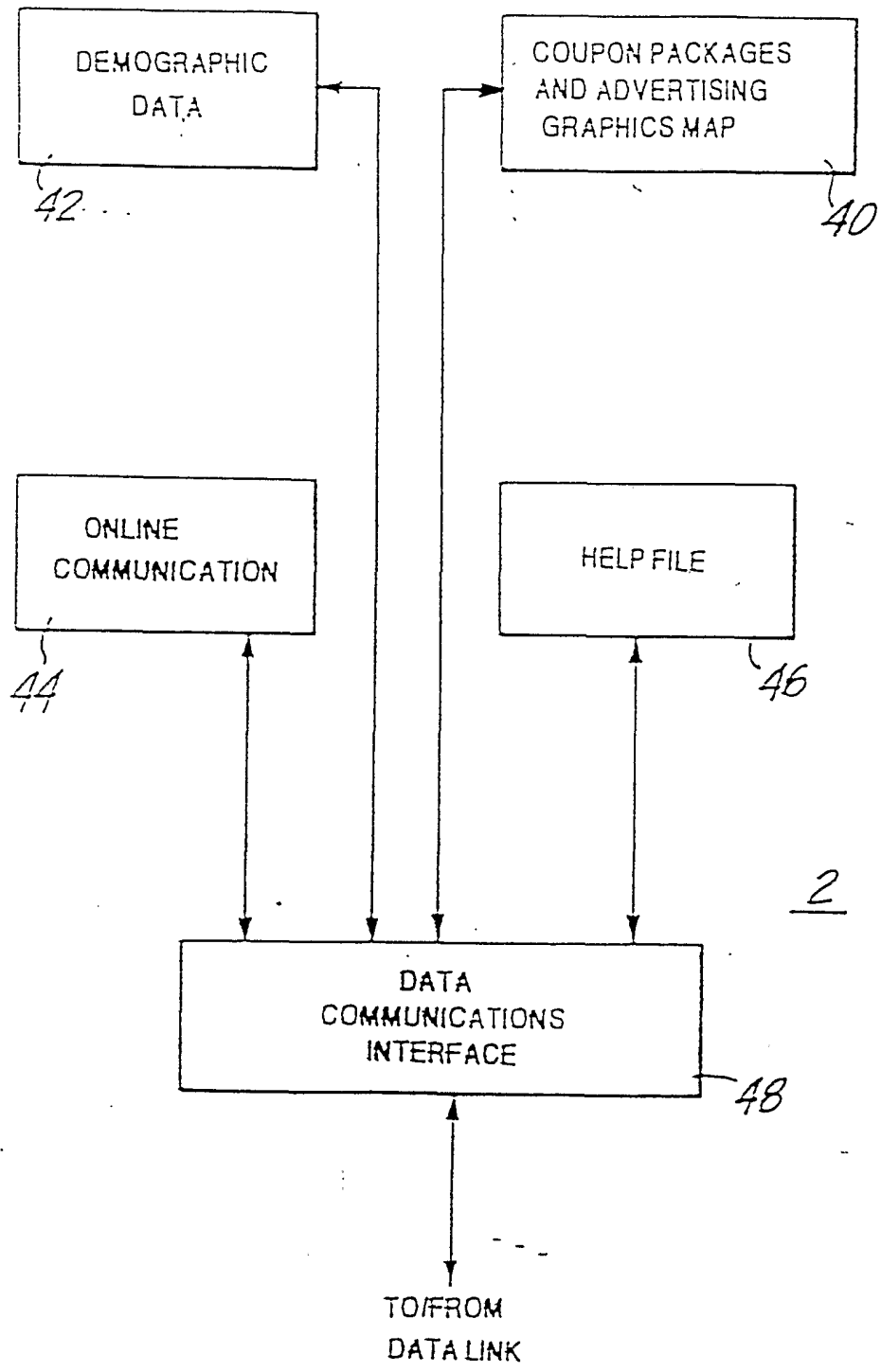


FIG.6

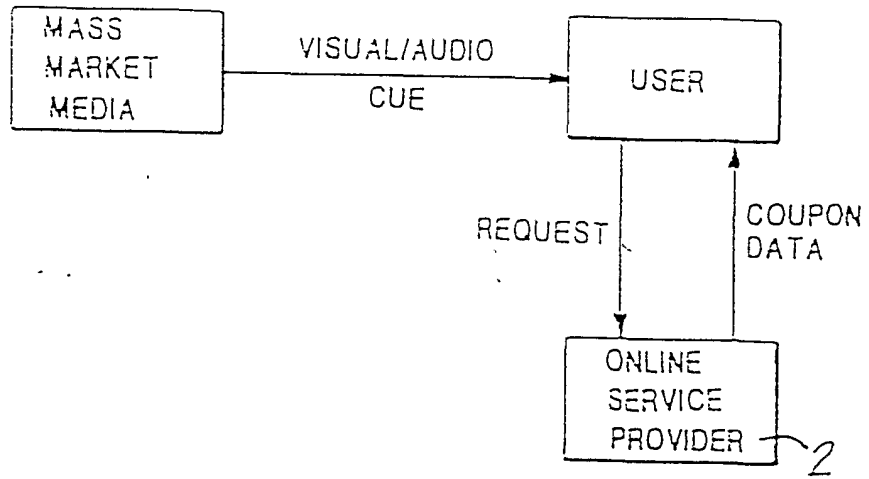


FIG. 7

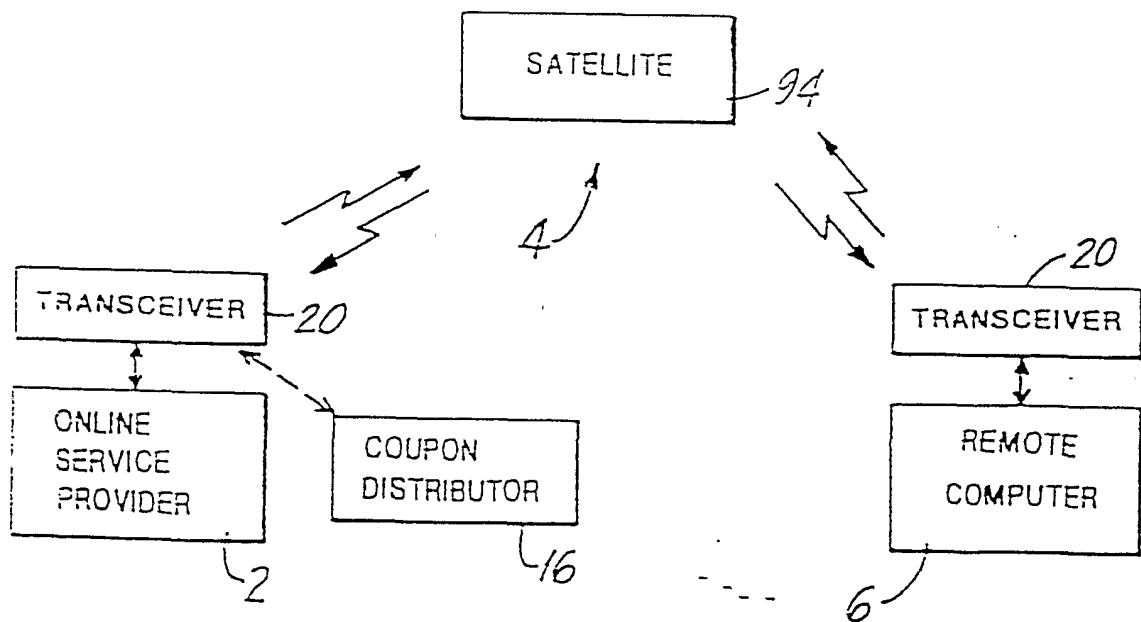


FIG. 8

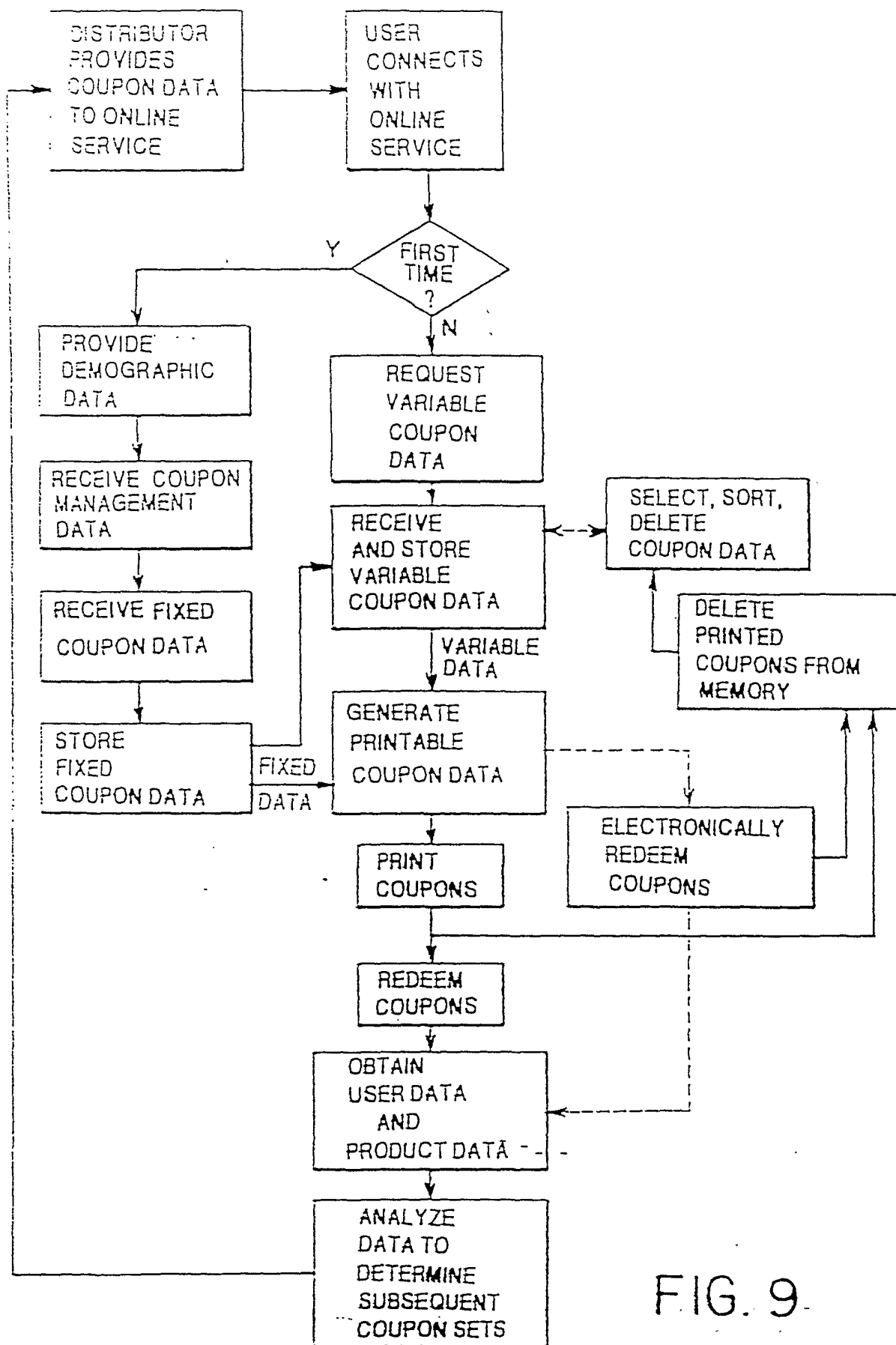


FIG. 9



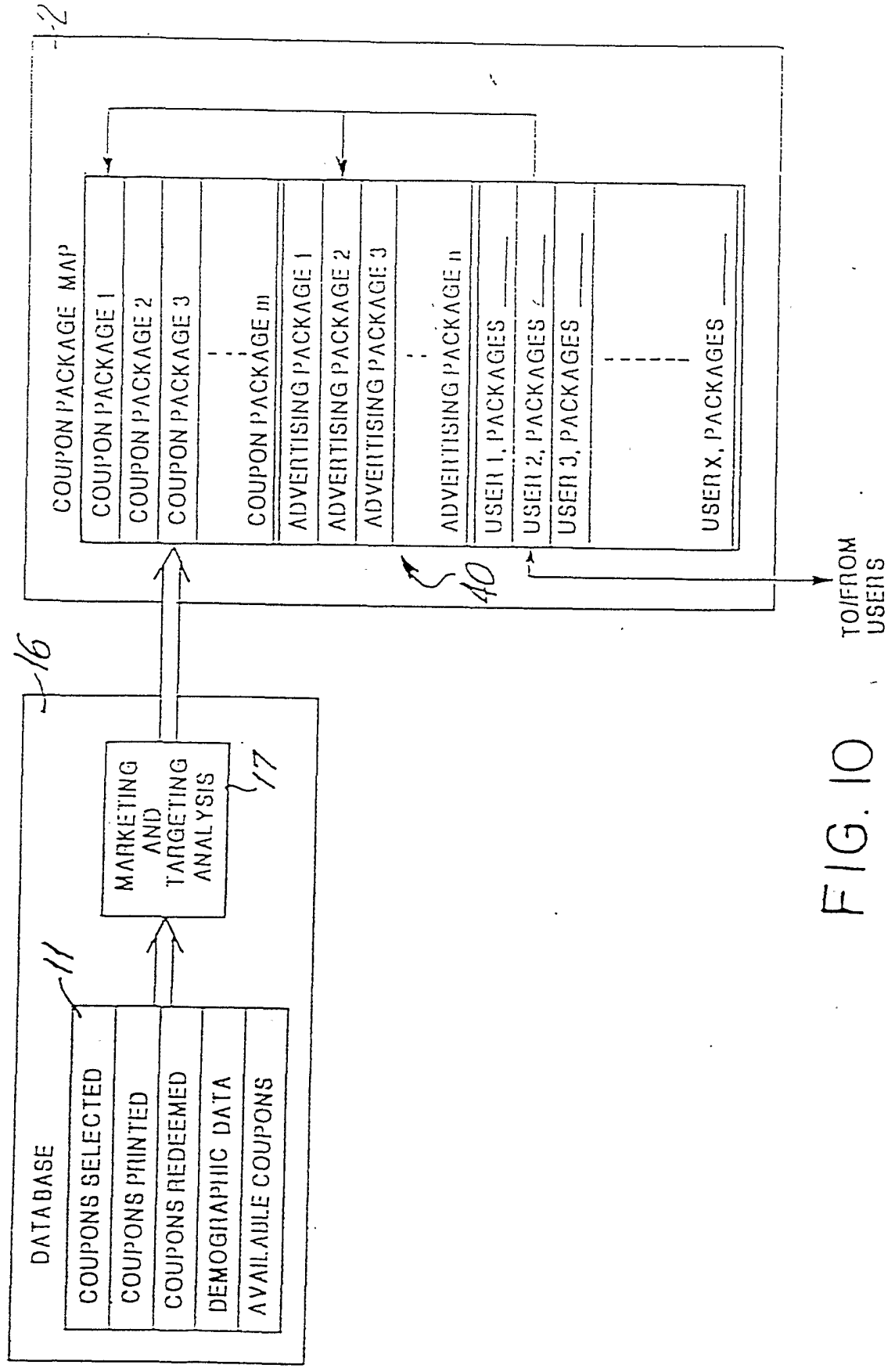


FIG. 10

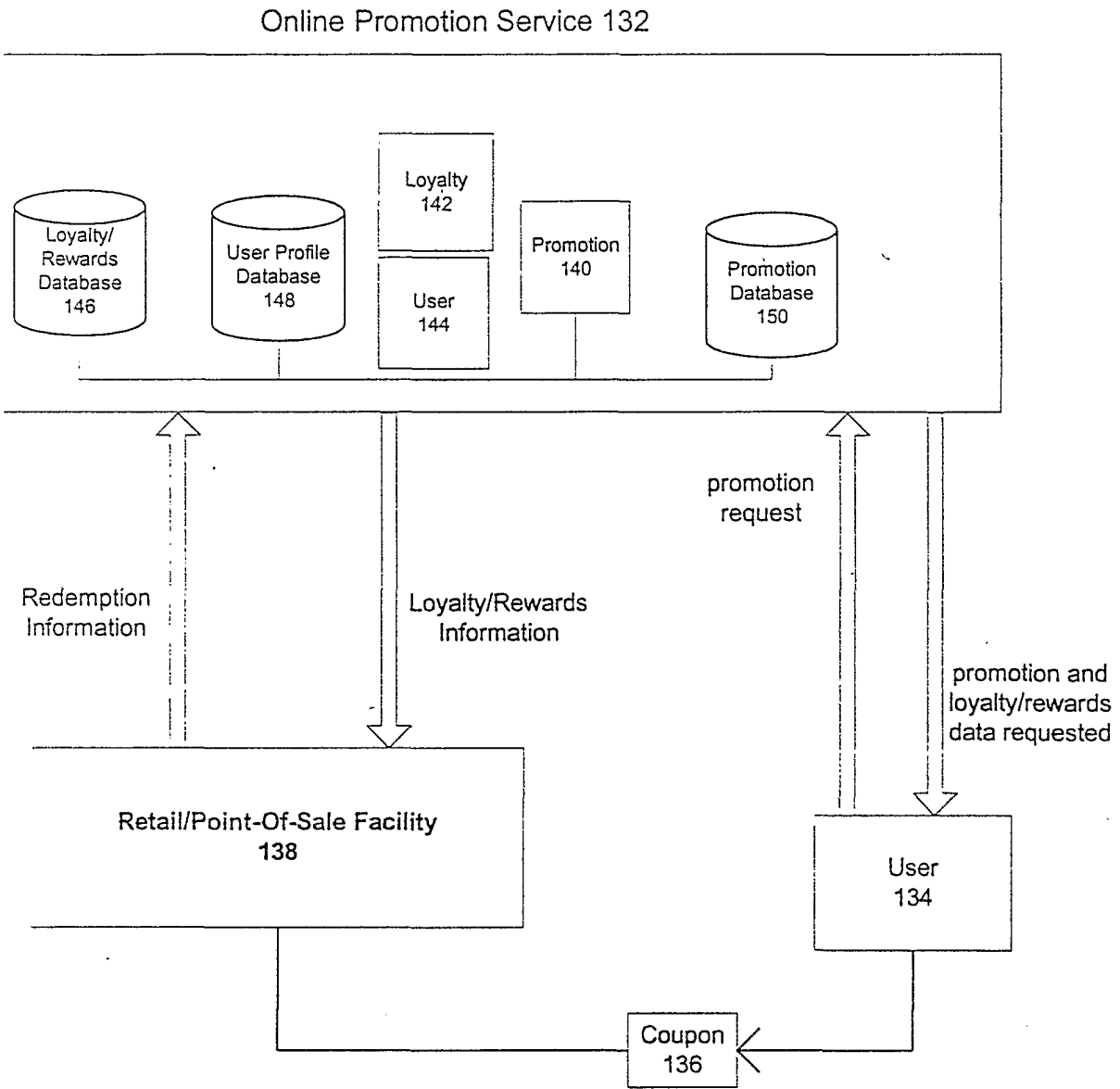


FIG. 11

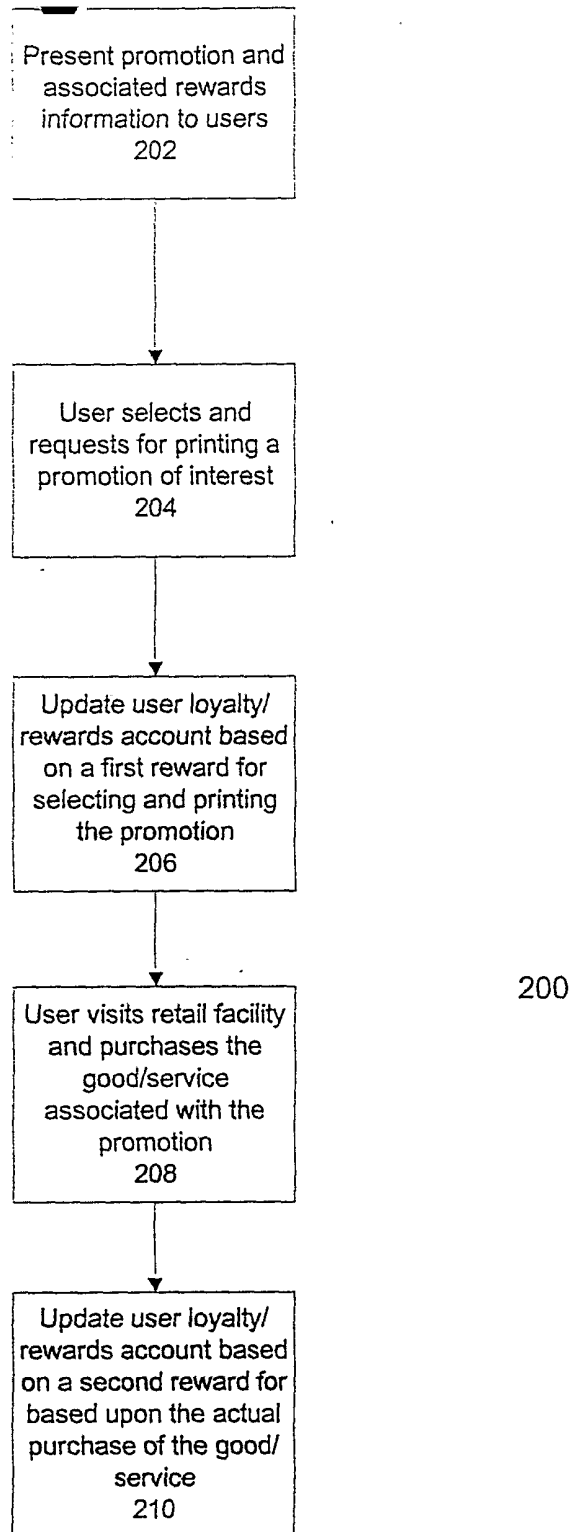


FIG. 12

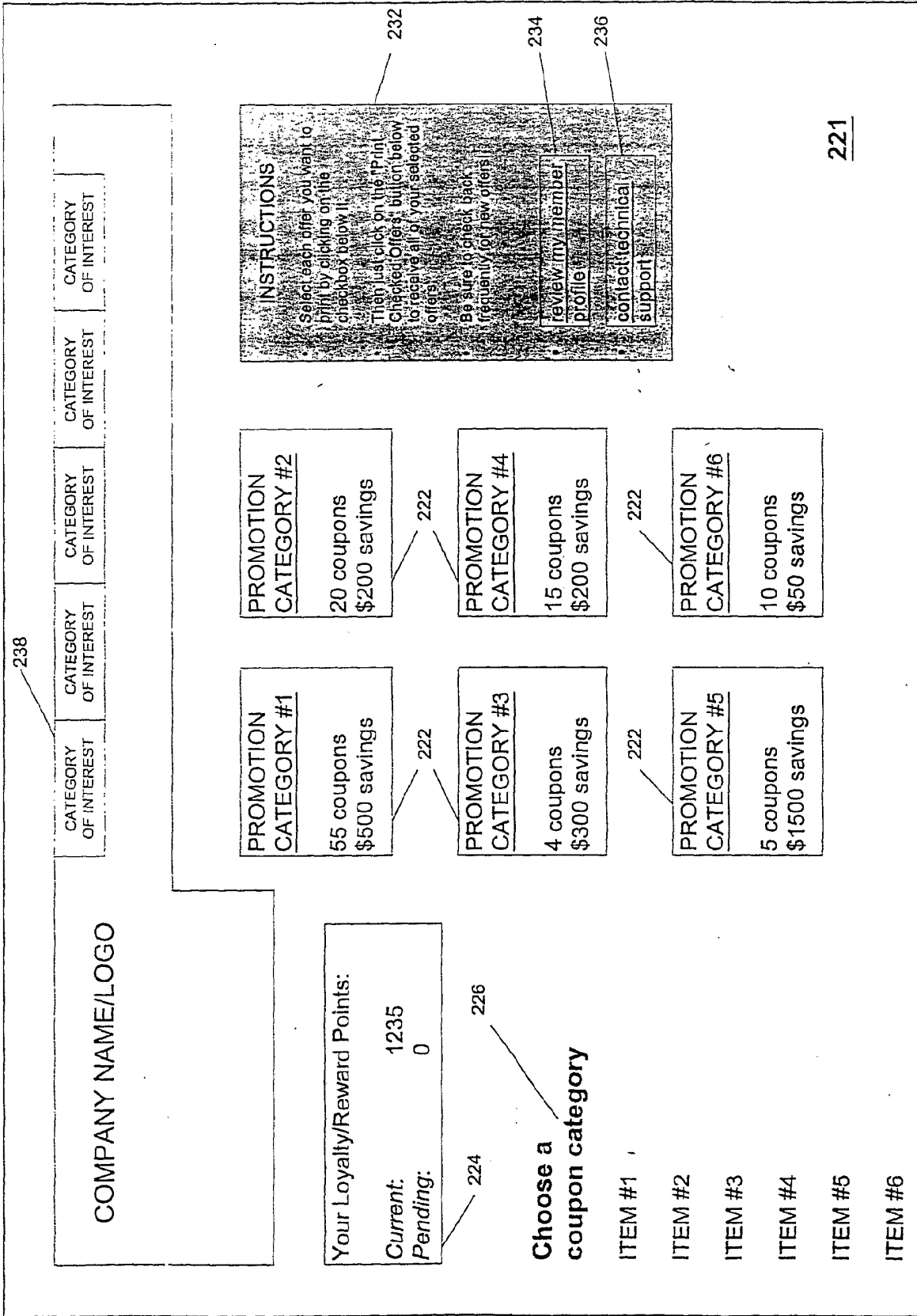


FIGURE 13

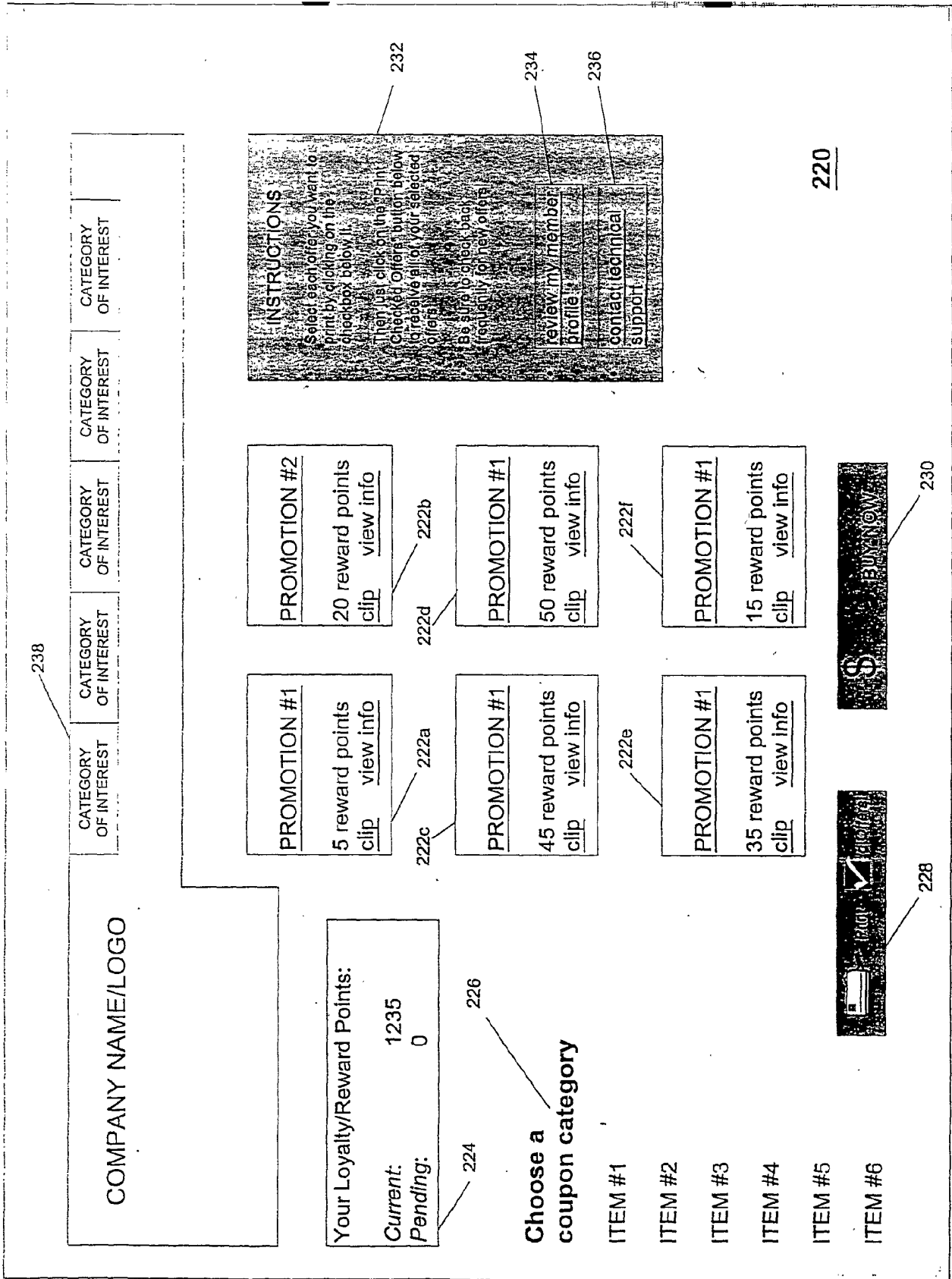


FIGURE 14

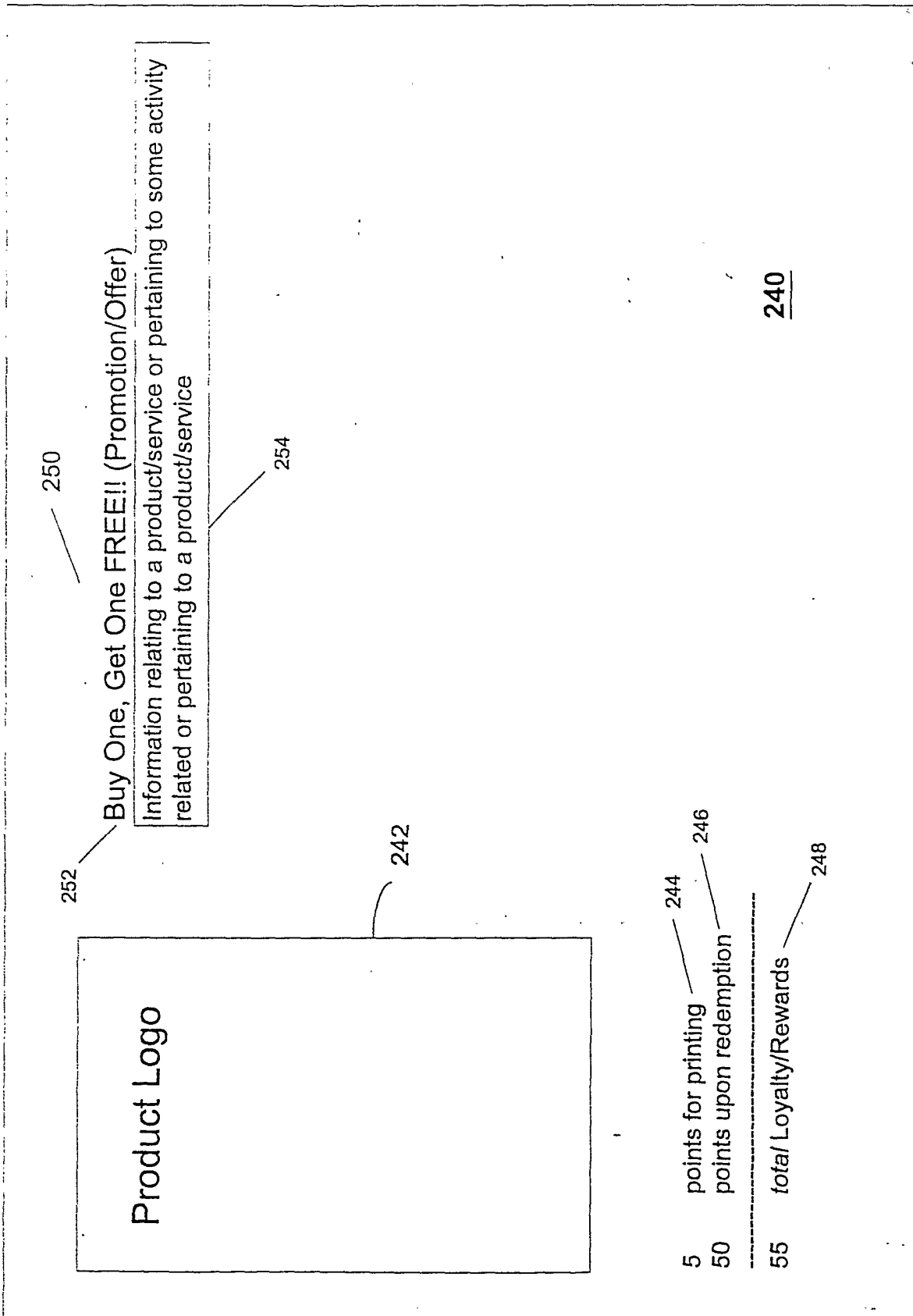


FIGURE 15

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/10890

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/21

US CL : 705/45, 14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 705/45, 14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,483,049 A (SCHULZE, JR.) 09 January 1996, FIG. 1A through FIG. 5B and FIG. 6A through FIG. 11B.	1-20
Y	US 4,908,761 A (TAI) 13 March 1990, FIG. 1; FIG. 2.	7, 8, 10 & 15
Y	US 4,723,212 A (MINDRUM et al.) 02 February 1988, FIG. 1, FIG. 3, FIG. 3 through FIG. 6.	1-11

 Further documents are listed in the continuation of Box C.
  See patent family annex.

"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

23 MAY 2001

Date of mailing of the international search report

28 JUN 2001

 Name and mailing address of the ISA/US  
 Commissioner of Patents and Trademarks  
 Box PCT  
 Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

ERIC STAMBER

Telephone No. (703) 305 3800