A data processing system employs a unique coded promotional vehicle to attract customers into retail establishments for the purchase of discounted goods. The promotional vehicle includes coupon styled graphics integrated with a code to allow data tracking by the store pursuant to purchases by that customer. The promotional vehicle is easier and less costly to distribute compared to the prior art, avoids cutting of coupons, and post purchase redemptions. The system further allows more targeted discounting at a lower cost, and substantially reducing fraud by eliminating post purchase coupon processing and redemption. Additionally, the system provides for selective deactivation of the code for each discount used by redemption of the vehicle without deactivating the code for the discounts not used so that the code may remain selectively active for future use.
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FIG. 2

100 START

110 PRINT: MDV-CODE

120 DISTRIBUTE: MDV

130 COLLECT: GOODS

140 CHECK-OUT: MDV

145 SCAN: MDV CUST_CARD

150 DISCOUNT: GOODS

160 PROCESS: DATA

170 GENERATE: PROMOTION
FIG. 3A

Scan & Save
The New Easy Way To Save Without Clipping Coupons!

FINISH THE WHOLE SUNDAY PAPER
STAY IN BED UNTIL NOON
WRITE LETTERS INSTEAD OF E-MAIL
ENJOY SOMETHING MADE BETTER WITHTIME

WERE EVERY DROP GOOD TO THE LAST DROP
WORTH SPENDING TIME WITH

After 25 years, packing pure cane sugar still makes a great impression

Amy's Pizza
100% Delicious!
FIG. 3B

SAVE $12 UP TO

The New Easy Way to Save Instantly Without Clipping Coupons!

1. Buy any of the products shown on the back...
2. Hand this tear-off to the cashier for scanning...
3. Save up to $12 instantly!

No Coupon Clipping! See Tear-off Inside.

INTRODUCING THE MOST POWERFUL ALKALINE BATTERY IN THE WORLD

MORE POWER. MORE LIFE

Nothing Handles Your Hunger Like A Triscuit.
FIG. 3C

*Scan & Save*

The New Easy Way To Save Without Clipping Coupons!

Finish the whole Sunday paper
Stay in bed until noon
Write letters instead of e-mail

Enjoy something made better with time

Save 75¢
Worth spending time with

After 85 years, Swiss pure cane sugar still makes a great impression.

100% Delicious!
FIG. 4A

The New Easy Way to Save Instantly Without Clipping Coupons!

Buy any of the products shown... Hand this tear-off and your Big Y card to the cashier for scanning...

SAVE up to $20 with Scan&Save

Scan&Save
FIG. 4B

SAVE UP TO $20 WITH Scan&Save

The New Easy Way to Save Instantly Without Clipping Coupons!

1. Buy any of the products shown on the back...
2. Hand this card and your Big Y card to the cashier for scanning...
3. Save up to $20 instantly!

Now At Big Y
World Class Market

Preferred Shopper
1234 Any Street
Anytown USA 01234-0000

Bulk Rate USA

470 472
FIG. 5A

The New Easy Way to Save Instantly 
Without Clipping Coupons!

1. Buy any of the products shown on the back...
2. Hand this card and your Big Y card to the cashier for scanning...
3. Save up to $20 instantly!

Scan & Save

Preferred Shopper 
1234 Any Street 
Anytown USA 81234-0000

Anytime USA 123-0000
FIG. 5B

Save Up To $20 At
No Coupon Clipping!
See Scan & Save Tear-off Below

Scan & Save
it's as easy as...

1. Buy any of the products shown...
2. Hand this tear-off to the cashier for scanning...
3. Save up to $20 instantly!
FIG. 5C

Scan & Save
The New Easy Way to Save Instantly
Without Clipping Coupons!

SAVE UP TO $20

Now At

Scan & Save
it's as easy as...

1 Say any of the products shown...
2 Hand this tear-off to the cashier
   for scanning...
3 Save up to $20 instantly!
FIG. 5D

Save Up To $20 At
No Coupon Clipping!
See Scan & Save Tear-off Below

Scan & Save
The New Easy Way to Save Instantly
Without Clipping Coupons

You are one of the
product owners...
Read this tear-off
and part lift
and in the color
for saving...
SANDS BENG
Scan & Save

S12
S50
S40

U.S. Patent
Sep. 17, 2013
Sheet 11 of 13
US 8,538,805 B2
FIG. 6A

Introducing New Scan & Save™ E-Z Offers

Savings Without Clipping Coupons!

- 20 Offers on One Page
- One Expiration Date
- Quick Scan

This week's offers on other side.

SCAN & SAVE CHECKLIST

Introducing

Scan & Save The easy new way to SAVE!
Available at Rockford area "Logli"

1. Take Scan & Save Checklist to Logli and buy any of the products shown
2. Give Checklist to cashier for scanning and get instant savings
3. Keep your Scan & Save Checklist to use again and again. (Only one use per product.)

November 17, 2002 Offers expire on 1/1/03
<table>
<thead>
<tr>
<th>Item Description</th>
<th>Discount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off any 2 Kraft Deluxe Macaroni &amp; Cheese</td>
<td>55¢</td>
</tr>
<tr>
<td>Off any 1 Grey Poupon Mustard</td>
<td>55¢</td>
</tr>
<tr>
<td>Off any 1 Pillsbury Pie Crusts</td>
<td>50¢</td>
</tr>
<tr>
<td>Off any 1 Baker's Chocolate Baking Squares</td>
<td>30¢</td>
</tr>
<tr>
<td>Off any 1 Triscuit Crackers</td>
<td>40¢</td>
</tr>
<tr>
<td>Off any 2 Jell-O Gelatin Dry Packages</td>
<td>55¢</td>
</tr>
<tr>
<td>Off any 1 Philadelphia Cream Cheese</td>
<td>30¢</td>
</tr>
<tr>
<td>Off any 1 Mrs. Smith's Frozen Pumpkin Pie Any Variety</td>
<td>75¢</td>
</tr>
<tr>
<td>Off any 1 roll Reynolds Wrap Aluminum Foil Except 25 sq. ft.</td>
<td>75¢</td>
</tr>
<tr>
<td>Off any 1 Kraft Cheese Whiz Any Variety</td>
<td>25¢</td>
</tr>
<tr>
<td>Off any 1 Kraft Salad Dressing</td>
<td>30¢</td>
</tr>
<tr>
<td>Off any 1 Ban product</td>
<td>75¢</td>
</tr>
<tr>
<td>Off any 2 Jell-O Gelatin Jumbo Size or larger</td>
<td>75¢</td>
</tr>
<tr>
<td>Off any 1 Electrolox Automatic Dishwasher Detergent</td>
<td>75¢</td>
</tr>
<tr>
<td>Off any 1 Advil 20 ct. or larger</td>
<td>75¢</td>
</tr>
<tr>
<td>Off any 1 Luvs Diapers</td>
<td>$1.00</td>
</tr>
<tr>
<td>Off any 1 Vaseline Intensive Care Lotion</td>
<td>$1.00</td>
</tr>
<tr>
<td>Off any 1 Colgate Toothpaste 4.6 oz. or larger</td>
<td>$1.00</td>
</tr>
<tr>
<td>Off any 1 Olympian Dog Food</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

**SCAN & SAVE CHECKLIST**

For your convenience, mark the items you want and those you've purchased in the boxes.

1. Kraft Deluxe Macaroni & Cheese
2. Grey Poupon Mustard
3. Pillsbury Pie Crusts
4. Baker's Chocolate Baking Squares
5. Triscuit Crackers
6. Jell-O Gelatin
7. Philadelphia Cream Cheese
8. Mrs. Smith's Frozen Pumpkin Pie
9. Kraft Salad Dressing
10. Ban product
11. Jell-O Gelatin Jumbo Size or larger
12. Electrolox Automatic Dishwasher Detergent
13. Advil
14. Luvs Diapers
15. Vaseline Intensive Care Lotion
16. Colgate Toothpaste
17. Olympian Dog Food

Get your Scan & Save Checklist at RockRabbit.com

Expires good until 1/1/03
PROMOTION ON PROCESSOR AND MANAGEMENT SYSTEM


FIELD OF THE INVENTION

The present invention is directed to a novel promotion platform, and more specifically, a data processing system and method for implementing a customer incentive promotional program for enhancing retail sales of select products, such as groceries and the like.

Promotions in the form of customer incentives are a well-traveled vehicle in product marketing. These incentives are designed to increase demand for a given class of products, triggering a growth of sales that move the product “off the shelves” in the retail outlet. Incentive based promotions come in all sizes and shapes, and almost every variation on this theme has been attempted, with the objective to differentiate your products from those of your competition, and thus expand the sales of these select products.

BACKGROUND OF THE INVENTION

The full spectrum of promotions can be seen at retail super-markets during the course of the last thirty years. Past promotions include the use of trading stamps, such as those distributed by the Sperry and Hutchinson Company—("S&H" Green Stamps). Purchasers of the promoted products would receive these stamps—exchangeable for gifts—and thus preferentially selected those stores that distributed these stamps in conjunction with the product sales.

Another promotional tool is the discount coupon, in which manufacturers of select goods, such as ice cream or coffee, would distribute coupons to potential customers. These coupons are presented during the purchase (check-out) of a can of coffee at the a participating retailer, the retail operator advances the coupon’s face value as an instant discount as agent for the manufacturer. Face values average 20% to 30% of the product’s retail price, and 80% of Americans report using them. Once redeemed, the participating retailer must submit the coupon back to the manufacturer for reimbursement of the face value discount plus a handling fee for accepting and processing the coupon. Manufacturers continuously and broadly distribute coupons as they significantly enhance customer demand for their brand over competitive brands. These savings were available at all participating retailers, especially mass grocery retailers such as supermarkets super-centers and discount department stores.

Nevertheless, retailers were less impressed with the manufacturer based discount coupons, primarily because customer purchase decisions were swayed in a direction independent of a given retailer as the savings were tied to the product, not the retail outlet. To counter the manufacturer’s efforts and bring customers to their specific store(s), retailers introduced weekly sales, which were and are still communicated through advertising circulars mass distributed in newspapers. Retailers even introduced their own coupons within their sales circular on broadly used products to limit the quantity that consumers could buy. With the exception of retailer-cou­poned items, sales items were simply “marked-down” or “price-reduced” within the store with all consumers buying sale products during the sale period receiving the reduced pricing. These store-based discounts were in contrast to the manufacturer’s coupons and, more popular with store owners.

The maturation of American population has caused sys­temic changes to America’s grocery industry. Specifically, over the last ten years, the grocery business has been consolidating with retailers taking control via great regional and national chains displacing small to medium local market operators. This concentration at the retail level has dramatically increased the leverage the chains command in negoti­ating co-marketing efforts with manufacturers of branded goods. As of year end 2001, the nation’s top five (5) mass grocery retailers command just under 50% of total U.S. gro­cery sales with the #1 retailer alone accounting for 15%. It has also led to the largest increase in store brands and store-based discounting. These years of intense discounting (by both retailers and manufacturers) has caused American shopping behavior to become price-sensitive, especially among its heaviest shopping households. This sensitivity has grown so acute that the vast majority of purchases now occur only when products are on sale. Manufacturers and retailers alike wish to focus their discounting efforts toward retaining the shopper loyalty of their best customers. This consistent goal has caused retailers to develop the frequent shopper card, which include coded identification information issued by the retail store, for free, to any consumer willing to accept one.

The use of Frequent Shopper cards has grown dramatically during the last five to seven years and is now offered by most major supermarket chains. From a consumer standpoint, 55% of American households now use Frequent Shopper cards with the majority carrying cards from competitive retailers. The profile of card using households matches with the demo­graphic profile of heavy shopping households. Usage surveys indicate that 91% of cardholders use them in every shopping trip. Analysis has shown that only a small portion of cardholders account for a disproportionately high percentage of purchases. These cards include a simple bar code unique to that specific customer, and are either credit card size or smaller for attachment to a key chain, making compliance convenient for the users. During checkout, the card code is scanned and the register entries for the goods purchased at checkout are stored within the digital transaction file with the unique code corresponding to that customer. Discounts are provided for the on-sale products purchased. The store computer from every store in the chain then transmits every transaction file (including both those impacted by a Frequent Shopper card code as well as those NOT impacted by a Frequent Shopper card code) to a remote central file for the entire chain. This file, stores the details of the transaction (including all items purchased, all retailer discounts, and all manufacturer coupons). Retailers with Frequent Shopper Card programs also have a separate database of cardholders including cardholder name, home address and telephone number. Some retailers also ask for e-mail address and number of family members. Retailers with Frequent Shopper Card
programs have the capability to link transaction files of cardholders and build a database of the purchase behavior of their cardholder customers, thereby allowing the store to track buying patterns of its registered customers.

Notwithstanding these changes, the industry largely depends on one form of manufacturer coupon-based promotion over all others. This promotion is known as the Free Standing Insert or FSI, which is dedicated to promotion offers that are coordinated and produced by an integrator service and then shipped to newspapers for insertion and delivery with Sunday newspapers. Promotion offers for grocery products generally entail a product advertisement with a coupon as an inducement to buy.

There are a number of problems with the FSI as presently applied. For example, consumers dislike cutting and organizing the various coupons for selective submission during checkout; a well-known inconvenience that is simply tolerated but not enjoyed. Additionally, store owners dislike having their cashiers handle coupons as they slow down and actually interrupt the checkout process, as well as the associated paperwork required in collecting, processing, and submitting coupons for reimbursement, which is time consuming and expensive.

The manufacturers are also troubled by the FSI coupon due to both its high media wastage level (98%) and its high fraud level (15% of redemptions). Fraud primarily occurs as rings of criminal cells collect coupons prior to distribution, mass cut and launder them, and then using small, individually-owned stores as a front, and submit the coupons for repayment, without any corresponding product sale. Indeed, this form of fraud is believed to be pervasive and has been linked to funding of terrorist organizations.

Even with these problems, FSI coupons remain the dominant form of manufacturer discounting and promotion. Obvious benefits from the FSI format is the low cost per distributed coupon and the pro-active distribution that brings shoppers into stores. Simply stated, no system has the proper balance of cost and effectiveness to displace or challenge the FSI in the market.

OBJECTS AND SUMMARY OF THE PRESENT INVENTION

It is an object of the present invention to provide a pro-active promotional vehicle to enhance retail sales of select goods.

It is yet another object of the present invention to provide an integrated multi-discount incentive vehicle capable of pro-active consumer distribution.

It is yet another object of the present invention to provide an integrated multi-discount incentive vehicle having embedded coding to permit selective tracking of consumer-product related data.

It is yet another object of the present invention to provide an integrated promotion system that avoids retailer in-store post redemption processing of coupons and substantially reduces the potential for fraud associated with such post-redemption processes.

It is a further object of the present invention to provide coding on an integrated multidiscount incentive vehicle that can be used in conjunction with store issued discount membership cards to facilitate system operation.

It is still another object of the present invention to provide a multi-product vehicle capable of distribution to select customers wherein promotional information regarding a diverse set of products is provided in conjunction with discounts on the products identified.

It is another object of the present invention to provide a promotion vehicle that has the outward appearance of an FSI but is implemented as a single promotion including selective coding and a shopping list format to ease implementation during the collection of specified goods in a store.

It is a further object of the present invention to provide a promotion system for enhancing retail based distribution of goods through the use of a multi-product discount vehicle, selectively distributed to potential customers, via direct mail or newspaper insert.

It is another object of the present invention to provide a data processing system programmed to track redemptions of a specialized multi-product incentive vehicle, so as to insure proper discounting against select products and coordinated fulfillment of the incentive-based transaction.

The above and other objects of the present invention are realized in a novel data processing system operable with a specialized multi-product discount vehicle associated with a specified code. The multi-product discount vehicle has within its structure, a coordinated presentation of coupon-like indicia, coupled with graphics and text to draw customer attention to the salient features of the promoted products. Importantly, there is no requisite of cutting or organizing individual coupons by the customer. The assembly of information in the multi-product discount vehicle is configured to allow distribution to households, via mail, newspaper, or any other manner. The discount promotions within the vehicle are organized to facilitate ease of tracking and purchasing the identified products in a shopping environment followed by a single redemption at checkout. A tracking code is appended to each vehicle, with the code including several distinct, machine-readable data sets. For example, the code may include an identifier for the media used to transmit the vehicle, such as, but not limited to, a newspaper, and perhaps details regarding that newspaper. Upon reading this identifier, alone or on an aggregated basis, core marketing data is rendered regarding, such as the lag time associated between vehicle distribution and subsequent redemption, the capture rate for that publication, etc. The code may also identify the specific promotions applicable to that vehicle, and information to permit selective pre-sorting of data associated with that customer’s purchases.

In accordance with the varying features of the present invention, the system includes a Point-Of-Sale (POS) processor for reading the appended code and processing this code in conjunction with the general functions associated with the checkout process. Because a single redemption vehicle is used that includes the specified coded information for post redemption processing, the vehicle is simply discarded at the checkout without the need to have it saved or destroyed. This eliminates the physical tracking process typically employed with conventional coupons, substantially reducing the post-redemption actions of the retail outlet. Because the vehicle is not used for clearing and discount repayment purposes, the possibilities of fraud are also greatly diminished.

In addition to a single code on the vehicle, operation may involve select portions of the coded data located in separate locations for reading during the checkout process. For example, the existing network of membership cards now sponsored by the retail outlet may satisfy code data relating to customer identification. The code on the vehicle may thus avoid duplicating this information, and focus on the promotion, the origin and path of the vehicle. By using two portions of a single code, one portion designated to the membership data and the other portion designated to the product discount data, processing via existing code software avoids separate data processing for the discount vehicle.
The foregoing processing steps are accomplished by barcode reader or similar device, with selective data processing performed locally within the retail outlet and/or remotely via network connections. Because the code includes identifiers or "flags" that are immediately recognized by the system during check-out, data may be pre-sorted with real time collection and synthesis of key parameters by the system. This pre-sorting allows quick access to core data sets important for real time marketing decisions.

**BRIEF DESCRIPTION OF THE FIGURES**

The present invention is illustratively described herein below in conjunction with the following drawings of which:

- FIG. 1 is a functional block diagram of the present invention;
- FIG. 2 is a simplified flow chart depicting the sequence of system operation of FIG. 1;
- FIG. 3a is a front vertically exploded view of a multi-coupon vehicle for use as a freestanding insert of a preferred embodiment of the present invention;
- FIG. 3b is a rear vertically exploded view of the multi-coupon vehicle for use as a freestanding insert of FIG. 3a;
- FIG. 3c is a diagonally exploded view of the multi-coupon vehicle for use as a freestanding insert of FIG. 3a;
- FIG. 4a is a front view of a multi-coupon vehicle of an alternate preferred embodiment of the present invention;
- FIG. 4b is a rear view of the multi-coupon vehicle of FIG. 4a;
- FIG. 5a is a front view of a multi-coupon vehicle of another alternate preferred embodiment of the present invention;
- FIG. 5b is a rear view of the multi-coupon vehicle of FIG. 5a;
- FIG. 5c is a rear view of the multi-coupon vehicle of FIG. 5a with a folded down top portion;
- FIG. 5d is a rear view of the multi-coupon vehicle of FIG. 5a with a folded down redemption vehicle;
- FIG. 6a is a front view of a multi-coupon vehicle of another alternate preferred embodiment of the present invention; and
- FIG. 6b is a rear view of the multi-coupon vehicle of FIG. 6a.

**DETAILED DESCRIPTION OF THE INVENTION**

First briefly in overview, the present invention is directed to a data processing system for implementing a novel multi-discount incentive based promotion that enhances customer demand for select products by providing discounts to customers in a low cost simplified process. There are three interrelated aspects of the present invention that bear consideration in the present disclosure. First, the inventive system employs a specifically constructed multi-discount incentive promotion vehicle that is pro-actively distributed to a select customer profile. Second, the system includes with the multi-discount incentive promotion vehicle a specific multi-function code embedded and/or associated with the vehicle to positively identify the customer and permit proper tracking of the promotion through redemption. Third, the system includes a code reader at the point of sale to extract the code during the redemption process and a POS system to properly process the discounts at the time of redemption, followed by post-redeemption processing of the accessed data assembled during checkout.

The incentive vehicle can take a number of different shapes, each of which, however, provides certain select functions. For example, the coupon vehicle may be formed of a single sheet of heavy grade paper, comprising two folds thus allowing an abridged presentation of discounted goods to consumers that sparks further interest and action. When unfolded, key information is presented directing the consumer to the discounts and the ease of processing. Within the various panels of the vehicle the discounts are prominently displayed with feature descriptors and the applicable discounts in the form of clipless coupons. Separately, the vehicle includes organizational tools to allow an enhanced shopping experience, with features such as a checklist for the promotions, and a tally of savings. Finally, the panels include a low profile code that includes various data, including for example, details specific to the promotion, authorization codes (for security), and retail outlet.

Recognizing the significant operational details directed to select variations of system operation provided in the parent case, the discussion below is used to expand and amplify on a subset of these features. With this in mind, FIG. 1 provides a generalized functional block diagram wherein the Customer, block 30, receives the multi-coupon vehicle via one of two paths, Mail Distribution block 10, or Newspaper/Magazine, block 20. Generally, distribution is accomplished as a stand-alone insert into the periodical or mailer. In some circumstances, however, it is advantageous to couple the vehicle with a primary promotion, such as a circular for a local supermarket. It is important to note, as presented here, the operation is cyclic, so that customer responses are used as a measure to allow feedback control of feature promotions, via Administrator 80, and Printer 90. Said differently, as multi-coupon vehicles are presented for redemption, the system processes this data which is then applied to re-characterize the parameter for the next round of multi-coupon vehicles. Parameters subject to feedback control include target customers, scale of discount, graphics on the vehicle, and the like.

Continuing with FIG. 1, Customer 30, visits the Retail Store 40, armed with the multipurpose vehicle. During the checkout process, block 50, the multi-discount vehicle (MDV) is scanned and processed with that transaction. The MDV is checked for authenticity, and items purchased that are subject to discount are tracked with the total amount charged to that customer adjusted accordingly.

In addition, select data, embedded into the code and locally generated (e.g., current data) are parsed and sent to local, real time processing, clock 60. This information is flagged for immediate assessment, and sent to local database 70. The entered and complete data set from checkout is sent to a remote/separate database 65, and is available for subsequent/batch processing at some future time, block 75.

Finally, Promotion Administrator, block 80, receives local processed information and/remote processed information. This is applied to adjust the format and attributes of the MDV for the next cycle, via printer, block 90.

A variation of the above sequence is accomplished by using the MDV with a user independent code, and coupling operation with the existing store membership card that uniquely identifies the user during checkout, block 35. Several benefits flow from bifurcating the code between the MDV and the membership card in this way. First, processing is accomplished via existing scanning and data tracking protocols already in operation in the store environment. Second, and perhaps more economically important, the MDV may be printed en masse with an individual code for the block run—but not for each individual vehicle. Said somewhat differently, the MDV code will be the same for the promotion run—thus avoiding the expense of individually coding each MDV.

A sample processing sequence is provided in FIG. 2. Beginning with Start Block 100, logic continues to block 110,
wherein the MDV is printed with a select code. In accordance with the above process, the same code is placed on plural vehicles for a single promotion, and no customer identification is provided within the code. At block 120, the MDV is distributed as a fold-out from a store sponsored circular inserted into a weekly village newspaper. As printed, the vehicle includes 20 separate discount coupon like images organized within the folded structure of vehicle. In addition, the vehicle provides a shopping list of all the promoted products and a tally to allow tracking of the accumulated savings made with the vehicle during a shopping trip.

Continuing with FIG. 2, at block 130, a customer/newspaper subscriber takes the MDV to the sponsoring supermarket, collecting some or all of the promoted goods using the shopping list as a guide. At check-out, block 140, the customer purchases the items selected during the shopping visit, and the system scans both the vehicle code, and the customer membership card, block 145. The checkout is completed by providing the customer the discounts found on the vehicle and storing the data collected during the scanning operation, block 150.

At block 160, the stored data including information about the discounted amount provided to the customer by the store are passed to the clearance facility, and the amount is reimbursed to the supermarket. The MDV is discarded. Information regarding the transaction is preserved to track real time variables necessary for select store processes. The remaining data is filtered and aggregated with other transactions and used to guide the creation of the next promotion, block 170.

Turning now to FIGS. 3a-c, one embodiment of the MDV is provided in the form of a freestanding insert (FSI) 300. The FSI may generally take the form of a folded sheet 310, 320, 330 unattached to each other (FIGS. 3a-c). Each sheet presents graphically displayed information, is folded or creased 352, and may include at least one advertisement or commercial 340 of a discounted product. FSI is preferably placed in a newspaper for dissemination to potential customers.

A redemption vehicle 312 is shown attached to one of the sheets, but may be attached to any of the sheets, in any position, may be printed on any portion, or may simply be loose and separate altogether. The redemption vehicle may include a barcode 360 or other readable medium, a description 314 of the discounted or sale-priced items, a picture or other representation 318 of the items, and/or the price or discount 316 of the items. Additionally, the redemption vehicle may include other miscellaneous information 342, such as but not limited to instructions, advertisements, commercials, names of participating retailers, etc., and may even be organized under headings representing categories or store isles.

The foregoing system implementations may be more fully appreciated in the context of an illustrative example of operation within a retail environment. Referring first to FIGS. 6a and 6b, a selectively constructive MDV is depicted for use for promoting multiple products for purchase at a supermarket. The MDV is a single sheet stock having two sides—front and back illustrated by FIGS. 6a and 6b, respectively—for receiving printed information regarding a plurality of products and/or services typically available from a supermarket retail outlet.

The front side of the MDV, shown in FIG. 6a, presents, in the upper portion, an overview of the MDV to provide the user with introductory information about the MDV. For example, the MDV is depicted as providing discounts for certain specific products. The MDV is further shown as having some relation to conventional discount coupons by the illustration of such coupons on the front side. Additional features of the MDV are indicated by the upper portion of the front side, such as multiple discounts being provided by the single MDV ("20
Offers on One Page”), a single expiration date for all such discounts, and machine-readability of the MDV (“Quick Scan”).

The lower portion of the front side of the MDV, shown in FIG. 6a, contains more specific information regarding the MDV. For example, the lower portion indicates where the MDV can be redeemed (“Available at Rockford area store”). Also, the lower portion provides more specific directions for the use of the MDV by a consumer (“1, 2, 3.”). Also, the lower portion provides the expiration date of the MDV (“Jan. 31, 2003”).

The upper portion of the back side of the MDV, shown in FIG. 6b, provides details regarding the specific discounts offered by the MDV. Photo reproductions of the specific products for which discounts are offered are included in the upper portion to facilitate recognition of the products by the consumer. The photo reproductions also facilitate location of the products in the retailer’s facility by providing the consumer with a visual image for which to search in the facility.

The lower portion of the back side of the MDV, shown in FIG. 6b, contains a list of each of the products for which a discount is provided by the MDV. Next to each of the product names are printed two boxes. The boxes provide locations for the consumer to mark, such as by placing an “x” or “check”, to indicate that a particular product is desired and that the MDV has been redeemed for a particular product. For example, the box to the immediate left of each named product may be marked to indicate that the discount has been redeemed, and the box to the left of that box may be marked to indicate that the purchase of the product is desired. This provides a left-to-right chronological sequence to the boxes since identification of the desire to purchase normally precedes the actual purchase. This enables the consumer to track the discounts of the MDV which have been used and those which remain available.

The lower portion also contains a bar code which may be scanned by a conventional bar code scanner. Additionally, the lower portion indicates the expiration date of the MDV (“Jan. 31, 2003”) and, to the right thereof, additional conditions associated with the MDV (“One use per product. Offers cannot be doubled . . .”).

The MDV may be incorporated into the page of a magazine such that the MDV defines the outer portion of the page and has an outer edge which defines at least a portion of the outer edge of the page. Such an MDV has an interior edge which is perforated to enable ready detachment, such as by tearing, of the MDV from the inner portion of the page of the magazine. Detachment of the MDV from the page of the magazine results in the interior edge of the MDV, which was previously perforated, being serrated.

In a related embodiment of the MDV, the MDV may be incorporated into a free-standing insert, such as an advertising circular which may be inserted into a newspaper. An example of such a free-standing insert is a large sheet which is folded to define sections where one of such sections has the MDV incorporated therein. Such an MDV is incorporated into a section of the circular in a similar manner as the page of a magazine, as described in the preceding. Such an MDV has a perforated interior edge to enable ready detachment from the circular.

In preparation, the MDV is further provided with a unique code utilizing a bar code structure, during its printing. In either event, each MDV is coded so as to be uniquely identified and tracked during its usage.

In operation, the MDV of FIGS. 6a and 6b is distributed to potential customers through the use of newspaper insert. Specifically, the MDV is inserted into the folds of the newspaper that is otherwise delivered or available for sale within the geographic region of a sponsoring or participating supermarket. In this way, the MDV ends up with a potential customer or customer family and can be quickly evaluated in terms of the savings offered on the plural products promoted on the MDV.

In this example, the customer retains the MDV, and uses it to assist in his next shopping trip to the supermarket. Passing through the product isles, the customer can quickly and easily identify those products to which a discount applies. The MDV allows for easy tracking of the selected items by the customer during the selection process.

At check-out, the supermarket employs conventional scanning equipment to read both the MDV and the products selected by the customer for purchase. The scanning equipment is connected to a computer that compares the purchases with a file storing information regarding the products promoted with the MDV. This comparison is facilitated by the unique identifier provided on the MDV, which compels the promotion to the stored file. As promoted items listed on the MDV are scanned during checkout, the system flags these items as purchased and applies the discount to the price provided to the customer. The computer may thereafter deactivate the promotion for that product to insure that the MDV is not used again to duplicate the discount for the purchased items. The MDV, however, remains active to the extent promoted items were not purchased by the customer during this or previous shopping visits, and the time period set for the promotion has not expired (typically 45 to 90 days). This, of course, allows the customer to return to the store with the MDV and to take advantage of the remaining promotions on the MDV that have not been used.

The supermarket computer thereafter aggregates the purchases of promoted items and the discounts provided to its customers. During a selected interval, these aggregate promotions are segregated by their sponsoring agents—typically the manufacturers—and reimbursement files are sent to a clearinghouse or directly to the agent. Confirmation of the purchases permits the reimbursement of the promotion/discounts back to the supermarket by the clearinghouse/agent with confidence that no fraud has taken place, while avoiding the need for a physical coupon or similar.

While the invention has been described by reference to certain preferred embodiments, it should be understood that numerous changes could be made within the spirit and scope of the inventive concept described. Accordingly, it is intended that the invention not be limited to the disclosed embodiments, but that it have the full scope permitted by the language of the following claims.

What is claimed is:

1. A data processing system for tracking and processing a plurality of in-store discounts to potential purchasers of plural products during the checkout process, wherein said discounts are each associated with a specific one of said plural products, said system comprising:

a. a discount vehicle, characterized by two or more of said discounts, including descriptive material to provide information at least identifying the products and their associated discounts; 

b. a customer account associated with a customer identification code, the customer account comprising two or more of said discounts of the discount vehicle selected by a customer to be associated with the customer account, the customer account being associated with a select code that permits tracking of said customer account during
checkout, said select code uniquely identifying all the discounts for all of the plural products associated with the customer account;
wherein the customer identification code is inputted by the customer to access the customer account;
a checkout processing terminal including computer based tracking of individual purchasers' purchased products and the prices thereof, wherein said processing terminal includes a device for receiving the select code during checkout; and
a data processor attached to said checkout terminal for receiving information regarding transactions associated with checkout, selected products and the discounts associated with the select code forming a part of the transactions, and processing said discounts in accord with said select code;
wherein said data processor selectively deactivates the select code for only particular discounts, of the plurality of discounts, associated with the purchased products by redemption of the select code associated with the customer account such that the select code remains active for future use with yet unused ones of the plurality of discounts associated with said plural products, said data processor being further connected to memory for storing data associated with said transaction.

2. The data processing system of claim 1, wherein the discount vehicle is for distribution via newspaper, mail, electronic mail, or telephonic transmission.

3. The data processing system of claim 1, wherein the discount vehicle comprises a website.

4. The data processing system of claim 1, wherein the customer identification code is different from the select code.

5. The data processing system of claim 1, wherein the customer identification code is also used as the select code.

6. The data processing system of claim 1, wherein the select code has at least one additional code linked thereto to allow the customer at checkout to purchase selected products at the discounts associated with the select code.

7. The data processing system of claim 1, wherein the customer identification code is associated with a loyalty card, a membership card, a credit card, or a debit card.

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