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### (12) United States Patent

### French et al.

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## (54) CART RETURN CREDIT SYSTEM

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- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

- (21) Appl. No.: 09/535,076
- (22) Filed: Mar. 23, 2000

### Related U.S. Application Data

- (63) Continuation-in-part of application No. 09/153,912, filed on Sep. 16, 1998, now Pat. No. 6,486,768.
- (51) Int. Cl.<sup>7</sup> ...... H04Q 19/00

### (56) References Cited

### U.S. PATENT DOCUMENTS

3,882,982 A	5/1975	Smith 194/4 C
3,897,863 A	8/1975	Peggs 194/4 R
3,938,638 A	2/1976	Moule 194/4 C
4,424,893 A	1/1984	Gillet 194/4 C
4,470,495 A	9/1984	Unger 194/4 C
4,549,182 A	10/1985	Gillet 348/942
4,572,347 A	2/1986	Eisermann 194/205
4,623,877 A *	11/1986	Buckens 340/572

5,056,019 A	10/1991	Schultz et al 364/405
5,119,087 A	6/1992	Lucas 340/825.35
5,360,094 A	11/1994	Adams et al 194/212
5,485,006 A	1/1996	Allen et al 250/222.1
5,526,916 A	6/1996	Amdahl et al 194/211
5,592,560 A	1/1997	Deaton et al 382/100
5,687,322 A	11/1997	Deaton et al 382/100
5,708,782 A *	1/1998	Larson et al 395/214
6,154,879 A *	11/2000	Pare et al 902/3

#### FOREIGN PATENT DOCUMENTS

DE	30 02 798 A 1	7/1981	G07C 9/00
DE	31 30 543 A 1	2/1983	A47F 10/04
DE	196 25 525 A1	1/1998	
EP	0 025 754 B1	9/1980	G07F 7/06
GB	2 122 792 A	1/1984	G07F 7/06
WO	WO 85/00961	3/1985	A47F 10/04
WO	WO 97/11441	3/1997	
WO	WO 98/51197	11/1998	

<sup>\*</sup> cited by examiner

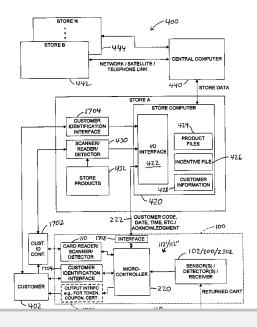
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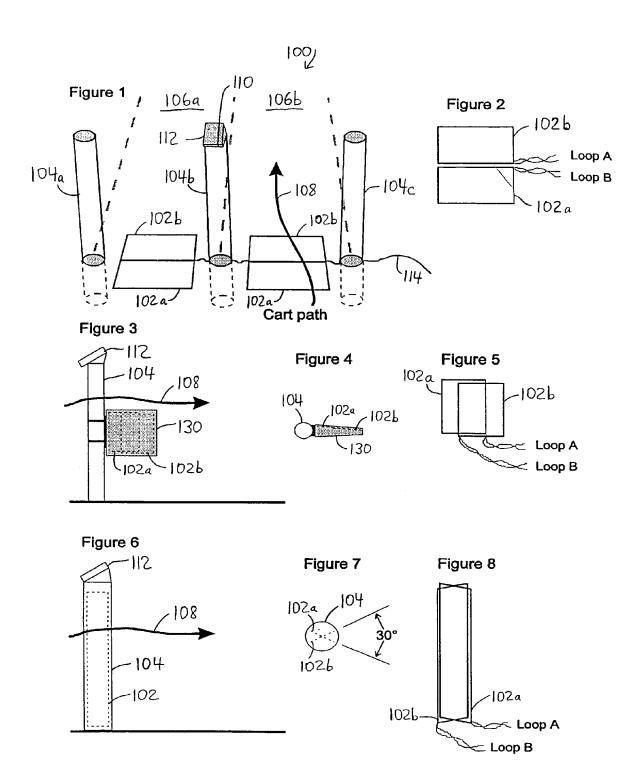
### (57) ABSTRACT

A system and method for providing an incentive to a customer of a store to return a shopping cart to a cart return location. The system generates a cart return signal. The system determines whether a cart is being removed from or returned to the cart corral. Alternatively, a radio frequency identification system may be used to detect return of a cart. The shopper is credited with points or credits in a frequent shopper or reward program for returning the shopping cart to the cart return location. The cart return system may be readily configured to integrate with a wide range of existing, or new frequent shopper or loyalty programs.

### 15 Claims, 14 Drawing Sheets

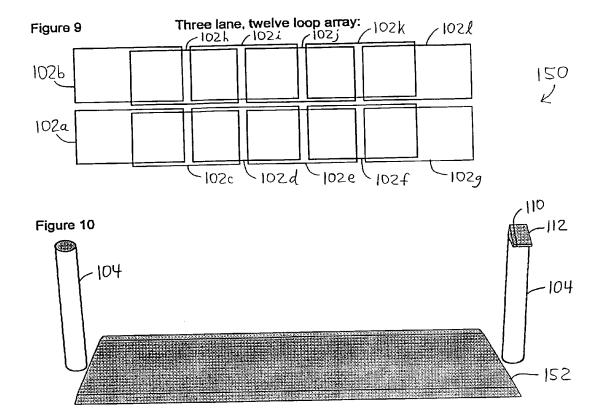








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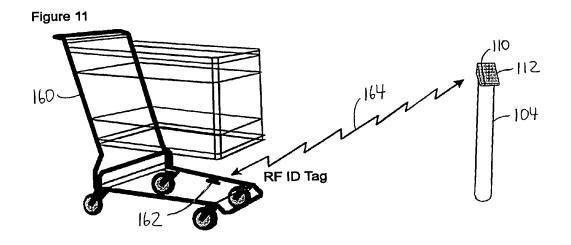


Figure 12 Cart Detector circuit

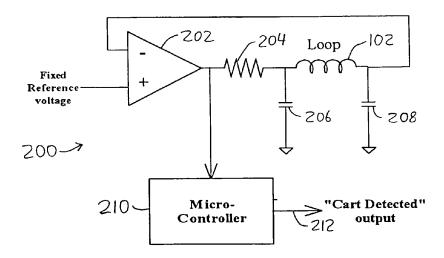
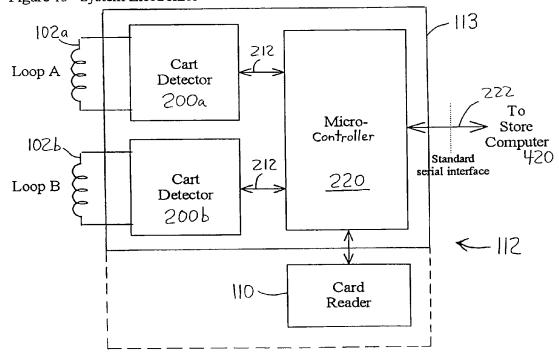
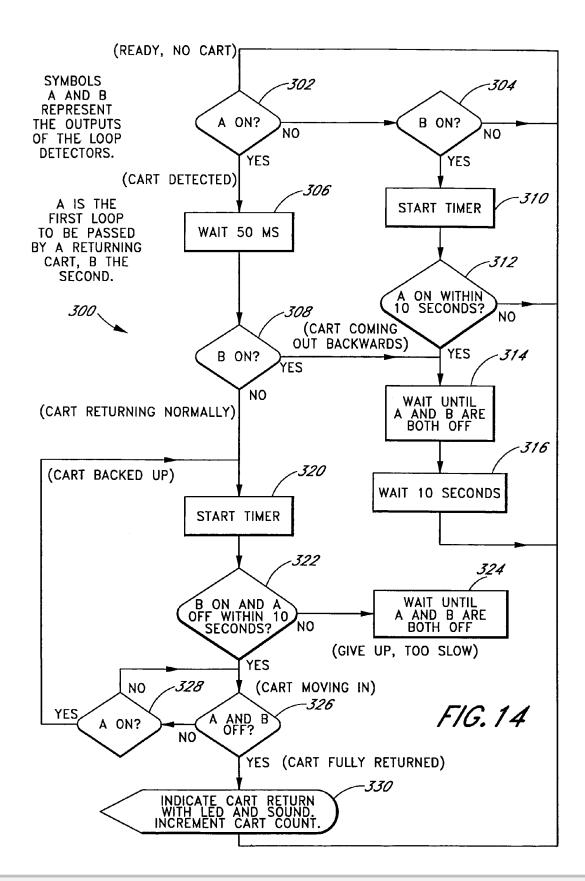


Figure 13 System Electronics







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