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Vance

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(54) **AUTOMATED CHECKOUT UNIT AND METHOD OF USE THEREOF**

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,557,088	A *	9/1996	Shimizu et al.	235/383
6,032,128	A	2/2000	Morrison	
6,145,629	A	11/2000	Addy	
6,354,498	B1	3/2002	Lutz	
6,386,448	B1 *	5/2002	Addy	235/383
6,401,074	B1 *	6/2002	Sleeper	705/14.65
6,497,362	B2	12/2002	Persky	
6,522,772	B1	2/2003	Morrison	
6,547,040	B2	4/2003	Goodwin	
6,550,582	B2	4/2003	Addy	
6,571,218	B1	5/2003	Sadler	
6,588,549	B2	7/2003	Wike	
6,598,791	B2	7/2003	Bellis	
6,837,428	B2	1/2005	Lee	

6,854,656	B2	2/2005	Matsumori	
6,856,964	B1	2/2005	Sadler	
6,990,463	B2	1/2006	Walter	
6,991,066	B2	1/2006	Persky	
7,000,833	B2	2/2006	Sato	
7,016,862	B1	3/2006	Vassigh	
7,034,679	B2	4/2006	Flynn	
7,040,455	B2	5/2006	Bogat	
7,048,184	B2	5/2006	Persky	
7,066,389	B2	6/2006	Dickover	
7,070,112	B2 *	7/2006	Beenau et al.	235/488
7,127,706	B2	10/2006	Mason	
2002/0139617	A1	10/2002	Goodwin	
2002/0186133	A1	12/2002	Loof	
2003/0006098	A1 *	1/2003	Wike et al.	186/61
2003/0009384	A1	1/2003	Sadler	

(Continued)

OTHER PUBLICATIONS

"NCR Fastlane C-Series", NCR Corporation, pp. 1-4, 2002.

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(57) **ABSTRACT**

The present invention is a checkout module for use in a retail checkout lane and methods of using the checkout module. The module needs only a power source and a network source. In another embodiment, the checkout module is designed to be used in a self-checkout mode or an assisted checkout mode and is further designed to be easily rotated to convert the checkout lane into a fully attended lane. The present invention may be used to quickly convert a conventional, attended checkout into an automated checkout, which may use one or more employees to assist with bagging the purchased items.

15 Claims, 41 Drawing Sheets

