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(71) Applicant and

(72) Inventor: BURKE, Mark, Anthony [IE/IE]; 4 Beverly Avenue, Beverly Court, Templeogue, Knocklyon, Dublin 16 (IE).

(74) Agent: ANNE RYAN & CO.; 60 Northumberland Road, Ballsbridge, Dublin 4 (IE).

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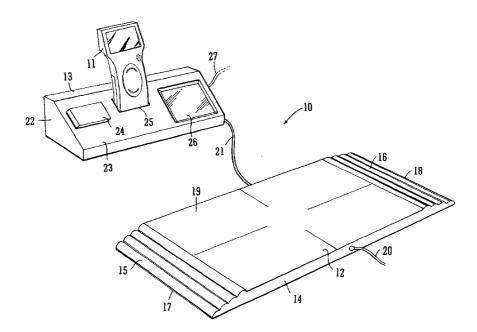
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(54) Title: A SHOPPING CHECKOUT SYSTEM



(57) Abstract: A shopping checkout system (10) for verifying the contents of a loaded shopping trolley has a barcode scanner (11), a weighing mat (12) and a verification unit (13). The scanner (11), in use, scans each shopping item as it is placed in the trolley and records, amongst other parameters, the weight of the item. The weighing mat (12), in use, weighs the loaded trolley and the readings from both the scanner (11) and the weighing mat (12) are fed to the verification unit (13), where the total weight of items from each source is compared in order to verify the contents of the loaded trolley.

### INTERNATIONAL SEARCH REPORT

Internat/ Application No PCT/IE 02/00122

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G07G1/00 G07F7/02

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) IPC 7 G07F G07G

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 practical, search terms used)

#### EPO-Internal

C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	CH 684 445 A (MARIE LOUISE DEILE) 15 September 1994 (1994-09-15)	1,2,5-9
Y	page 2, line 31 - line 33 page 3, line 35 -page 4, line 25 page 4, line 61 - line 64; claims 1,2; figure 1	3,4
Y	WO 93 04449 A (DIGICOMP RESEARCH CORP) 4 March 1993 (1993-03-04) page 3, line 9 - line 21 page 13, line 11 - line 19 page 15, line 29 - line 33 page 16, line 24 -page 17, line 7 page 23, line 4 - line 10 page 27, line 5 - line 19 page 37, line 19 - line 30; figures 2,4,5,7,8,11	3

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
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<ul> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filling date but later than the priority date claimed</li> </ul>	document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  *&* document member of the same patent family
Date of the actual completion of the international search  13 October 2003	Date of mailing of the international search report $21/10/2003$
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer  Guivol, O

# INTERNATIONAL SEARCH REPORT

Internation Application No
PCT/IE 02/00122

U. ) 200 HILLIO 001017	PCI/IE 02/00122		
	Indiana		
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
WO 01 61664 A (BOTTIGLIENGO LOUIS) 23 August 2001 (2001-08-23) see reference 8 in figure 1 page 3, line 8 - line 17 page 3, line 36 - line 38	4		
GB 2 068 132 A (WRIGHT L H;CLYNE N STURGEON P L) 5 August 1981 (1981-08-05) page 3, line 61 - line 64; figures	1,6-9		
GB 2 263 862 A (KIRK STEVEN LAWRANCE) 11 August 1993 (1993-08-11)			
US 5 468 942 A (OOSTERVEEN LEENDERT ET AL) 21 November 1995 (1995-11-21)			
	WO 01 61664 A (BOTTIGLIENGO LOUIS) 23 August 2001 (2001-08-23) see reference 8 in figure 1 page 3, line 8 - line 17 page 3, line 36 - line 38  GB 2 068 132 A (WRIGHT L H;CLYNE N STURGEON P L) 5 August 1981 (1981-08-05) page 3, line 61 - line 64; figures  GB 2 263 862 A (KIRK STEVEN LAWRANCE) 11 August 1993 (1993-08-11)  US 5 468 942 A (OOSTERVEEN LEENDERT ET		

# **INTERNATIONAL SEARCH REPORT**

in nation on patent family members

Internation Application No
PCT/IE 02/00122

Patent document cited in search report	:	Publication date		Patent family member(s)	Publication date
CH 684445	А	15-09-1994	СН	684445 A5	15-09-1994
WO 9304449	Α	04-03-1993	US	5361871 A	08-11-1994
			ΑT	159604 T	15-11-1997
			AU	2505692 A	16-03-1993
			DE	69222859 D1	27-11-1997
			DE	69222859 T2	28-05-1998
			DK	601064 T3	25-05-1998
			EP	0601064 A1	15-06-1994
			ES	2111082 T3	01-03-1998
			GR	3025728 T3	31-03-1998
			WO	9304449 A1	04-03-1993
WO 0161664	Α	23-08-2001	WO	0161664 A1	23-08-2001
			AU	2314700 A	27-08-2001
GB 2068132	Α	05-08-1981	US	4373133 A	08-02-1983
GB 2263862	Α	11-08-1993	NONE		
US 5468942	 А	21-11-1995	NONE		