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(71) Applicant: CRANE CO. [US/US]; 100 First Stamford Place, Stamford, CT 06902 (US).

(72) Inventors: HARTNELL, William, E.; 2509 Chartom Mar Drive, St. Charles, MO 63301-2563 (US). WHIT-TEN, David, B.; 1532 Harvard Way, St. Charles, MO 63303-3645 (US).

(74) Agents: MCLAUCHLAN, Robert, A. et al.; Hughes & Luce, LLP, 1717 Main Street, Suite 2800, Dallas, TX 75201 (US).

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(54) Title: APPARATUS AND METHODOLOGY OF DETECTING FULFILLMENT OF CUSTOMER VEND REQUEST

(57) Abstract: The present invention provides for a vending system wherein a monitoring system verifies that a beverage product ordered by a vending customer is actually delivered through a delivery area to the customer. If the beverage product ordered is unavailable either because of an out of stock situation or a blockage of the delivery path for that product, the present invention allows the customer to request a refund or order a second product.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G07F13/10

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) $IPC\ 7\ G07F$

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, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	EP 0 053 489 A (VGL IND LTD) 9 June 1982 (1982-06-09) page 2, line 1 - line 9 page 5, line 7 - line 10 page 5, line 22 - line 24 page 6, line 4 - line 16 page 7, line 1 -page 8, line 7 figures 1,3	1-24
X	EP 0 462 591 B (SANYO ELECTRIC CO) 1 May 1996 (1996-05-01) column 1, line 39 -column 2, line 50 column 10, line 41 -column 15, line 33 column 20, line 12 - line 17 claim 1 figure 5 -/	1-24

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
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Date of the actual completion of the international search 27 May 2003	Date of mailing of the international search report 04/06/2003	
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 Kling, J	

INTERNATIONAL SEARCH REPORT

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Delevent to eleier No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 535 856 A (UNIDYNAMICS CORP) 7 April 1993 (1993-04-07) column 1, line 45 -column 2, line 58	1-24
A	US 645 499 A (FRANK B. DEHN & CO.) page 1, line 1 - line 71	1–24
A	US 3 461 922 A (KUCKENS ALEXANDER ET AL) 19 August 1969 (1969-08-19) the whole document	1-24

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 02/34147

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0053489	A	09-06-1982	DK EP	527881 A 0053489 A1	29-05-1982 09-06-1982
			GR	76917 A1	04-09-1984
EP 0462591	В	27-12-1991	JP	4051394 A	19-02-1992
			JP	2962774 B2	12-10-1999
			JP	4051396 A	19-02-1992
			JP	2895925 B2	31-05-1999
			JP	4060796 A	26-02-1992
			JP	2074313 C	25-07-1996
			JP	4060797 A	26-02-1992
			JP	7099553 B	25-10-1995
			JP	2640019 B2	13-08-1997
			JP	4064195 A	28-02-1992
			JP	4065794 A	02-03-1992
			JP	8021125 B	04-03-1996
			JP	4068493 A	04-03-1992
			JP	8021126 B	04-03-1996
			JP	4068492 A	04-03-1992
			DE	69119146 D1	05-06-1996
			DE	69119146 T2	09-01-1997
			EP	0462591 A1	27-12-1991
			KR	9502012 B1	08-03-1995
			US	5261467 A	16-11-1993
EP 0535856		07-04-1993	US	5139127 A	18-08-1992
000000			EP	0535856 A2	07-04-1993
US 645499	Α		NONE		
US 3461922	Α	19-08-1969	NONE		