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- (71) Applicant (for all designated States except US): BEAVER MACHINE CORPORATION [CA/CA]; 1341 Kerrisdale Blvd., Newmarket, Ontario L3Y 7V1 (CA).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SCHWARZLI, Josef, W. [CA/CA]; 3927 Vandorf Road, R.R. #4, Stouffville, Ontario L4A 7X5 (CA). SCHWARZLI, Bernard, R. [CA/CA]; 17916 9th Line, R.R. #3, Mount Albert, Ontario L0G 1M0 (CA). RONNEBERGER, Jens [CA/CA]; 115 Harbour Street, Box 639, Brighton, Ontario K0K 1H0 (CA).

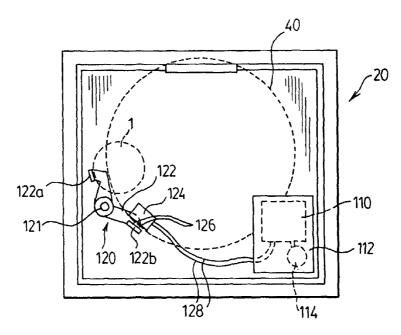
- (74) Agents: EISEN, Mark, B. et al.; Dimock Stratton Clarizio LLP, 20 Queen St. W., Suite 3202, Box 102, Toronto, Ontario M5H 3R3 (CA).
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[Continued on next page]

(54) Title: A TRACKING SYSTEM FOR VENDING MACHINES



(57) Abstract: A tracking system counts events in the operation of multiple machines or devices over a wide geographic area. For example, for bulk venders the system counts each vend responsive to rotation through a cycle of the coin mechanism, and preferably records the date and time of each vend. An active tag has a memory for storing data representing a vending event, for example the date and time of the event. The data is periodically read by an interrogator, which downloads the data stored in the tag memory and erases the memory to reset the tag for continued monitoring of the vender. With this information an operator can reconcile revenues, track when sales take place and over what period of time, and track the work habits of service personnel.

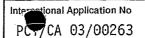


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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



A. CLASSIF	ICATION OF SUBJE	CT MATTER
IPC 7	G07F1/00	G07F9/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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

	ENTS CONSIDERED TO BE RELEVANT		Dolovortto alalm Ma		
Category °	Citation of document, with indication, where appropriate, of the	ne relevant passages	Relevant to claim No.		
X	EP 0 986 033 A (MARS INC) 15 March 2000 (2000-03-15)		1-9		
Υ	abstract; claims 1,15,27; figure paragraphs [0020] - [0028],		10-12		
γ .	US 5 954 181 A (SCHWARZLI JOS) 21 September 1999 (1999-09-21) cited in the application	10-12			
Α .	abstract; figures 1-5	•	13,14		
Α	DE 196 18 962 A (K B SOFTWARE 13 November 1997 (1997-11-13) abstract; claims 1-15	GMBH)	1-14		
Ą	US 4 412 292 A (SEDAM JASON K 25 October 1983 (1983-10-25) abstract; claims 3-7,11; figu	·	1-14		
	,	-/			
X Furth	ner documents are listed in the continuation of box C.	X Patent family members are listed	in annéx.		
"Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-			
other r	ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but nan the priority date claimed	document is combined with one or ments, such combination being obvio in the art. "&" document member of the same patent	us to a person skilled		
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report		
6	April 2004	19.04.2004	1		
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	Authorized officer			

In ational Application No PCT/CA 03/00263

0.15		PCT/CA 03	J/ 00203
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
X	US 3 776 338 A (JOHNSON K) 4 December 1973 (1973-12-04) column 1, lines 14-27	10	15,16
Х	US 3 559 788 A (BRITTON LEON R ET AL) 2 February 1971 (1971-02-02) abstract; claims 10,12; figure 4		15,16
Х	DE 44 37 813 A (TRENNER D WH MUENZPRUEFER) 18 April 1996 (1996-04-18) abstract; figures 1,2		15,16
X	DE 196 13 716 C (TRENNER D WH MUENZPRUEFER) 11 December 1997 (1997-12-11) abstract; figures 1,2		15,16
Α	DE 23 49 786 A (WITTENBERGE NAEHMASCH VEB) 19 December 1974 (1974-12-19) abstract; figures 3-5		16
A	FR 2 744 282 A (VALEO CLIMATISATION) 1 August 1997 (1997-08-01) abstract; figures 1,5		16

International application No. PCT/CA 03/00263

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

The first group of inventions concerns a tracking system for vending machines which comprises memory means and a transceiver for receiving instructions and for transmitting sensor data of the vending machine to an interrogator.

2. claims: 15, 16

The second group of inventions concerns an electro-mechanical mechanism for generating an electrical signal in a coin mechanism of a vending machine.

Information on patent family members

Instructional Application No
PCT/CA 03/00263

Patent document cited in search repo		Publication date		Patent family member(s)	Publication date	n
EP 0986033	A	15-03-2000	AU	758958 B	2 03-04-2	2003
			ΑU	4745299 A	16-03-2	2000
			EP	0986033 A	2 15-03-2	2000
US 5954181	A	21-09-1999	 BR	9802794 A	09-11-1	 1999
			DE	19834732 A	1 15-04-1	1999
			FR	2768535 A	1 19-03-1	1999
			GB	2328059 A	,B 10-02-1	1999
DE 19618962	А	13-11-1997	DE	19618962 A	1 13-11-1	1997
US 4412292	Α	25-10-1983	AU	561884 B		
			AU	5766286 A	06-11-1	1986
			ΑU	561947 B	2 21 -0 5-1	1987
			ΑU	5766386 A	06-11-1	1986
			ΑU	551692 B		1986
			ΑU	8034582 A		
			CA	1166356 A		1984
			DE	3205620 A	1 16-09-1	1982
			ΙT	1149761 B	10-12-1	1986
			JP	1726468 C	19-01-1	1993
			JP	4001392 B	10-01-1	1992
			JP	57155685 A	25-09-1	1982
US 3776338	Α	04-12-1973	AU	467007 B	2 13-11-1	1975
			AU	5170873 A		
			BE	794880 A		
			CA	989788 A		
			DE	2304973 A		
			ES	411238 A		
			FR	2170230 A		
			ΙT	984242 B	20-11-1	
			JP	48085297 A		
			LU	66942 A		
			NL 	7301515 A	07-08-1	1973
US 3559788		02-02-1971			31-08-1	
DE 4437813			DE	4437813 A	1 18-04-1	1996
			DE 	9421575 U	1 15-02-1	
DE 19613716	C	11-12-1997	DE		1 11-12-1	1997
	Α	19-12-1974			1 05-04-1	1974
				169099 B		
					1 19-12-1	
			SU	554327 A	1 15-04-1	1977
				2744282 A		