

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

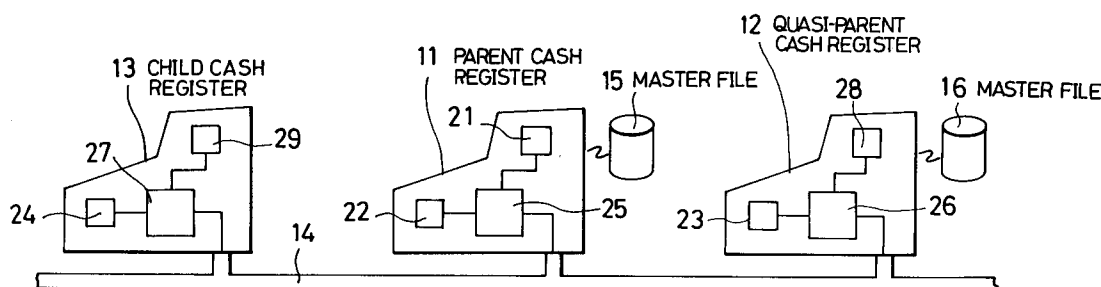
0 405 594 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **90112485.9**(51) Int. Cl.⁵: **G07G 1/14**(22) Date of filing: **29.06.90**(30) Priority: **30.06.89 JP 170574/89**(43) Date of publication of application:
02.01.91 Bulletin 91/01(84) Designated Contracting States:
DE GB IT(88) Date of deferred publication of the search report:
03.03.93 Bulletin 93/09(71) Applicant: **SHARP KABUSHIKI KAISHA**
22-22 Nagaike-cho Abeno-ku**Osaka 545(JP)**(72) Inventor: **Itoh, Seiji**
414 Yamato-Ryo, 492 Minosho-cho
Yamato-Koriyama-shi, Nara-ken(JP)
Inventor: **Sumimoto, Masayuki**
20-502 Heijo-Dai-Ichi-Danchi, 1-6 Jingu
Nara-shi, Nara-ken(JP)(74) Representative: **TER MEER - MÜLLER -**
STEINMEISTER & PARTNER
Mauerkircherstrasse 45
W-8000 München 80 (DE)(54) **Electronic cash register system.**

(57) An electronic cash register system includes: a parent electronic cash register (11) provided with a first control device (25) and a first memory (16) for registering a transaction data inputted thereto; a quasi-parent electronic cash register (12) provided with a second control device (26) and a second memory (16) for registering a transaction data inputted thereto; a child electronic cash register (13) provided with a third control device (27) for registering a transaction data inputted thereto; and a line (14) for communicating and registers to one another. The first, second and third control devices accom-

plish a mutual communication between the registers through the line and controlling the registers so as to store the data registered by the parent, quasi-parent and child registers into the first and second memories respectively when the parent register operates normally, store the data registered by the quasi-parent and child registers into the second memory when the parent register becomes inoperative, and transfer the data stored in the second memory to the first memory after the parent register is recovered to operate normally.

Fig. 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 11 2485
Page 1

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	EP-A-0 187 523 (FUJITSU) * page 4, line 20 - page 5, line 14 * * page 16, line 21 - line 31; claim 1; figure 1 * ---	1-4,6-9	G07G1/14
Y	US-A-4 169 288 (FAIRMAN ET.AL.) * column 2, line 5 - line 45 * * column 5, line 1 * ---	1-4,6-9	
A	DE-A-3 334 773 (SIEMENS) * page 3, line 10 - page 5, line 30 * ---	1-9	
A	PATENT ABSTRACTS OF JAPAN vol. 9, no. 304 (P-409)30 November 1985 & JP-A-60 136 855 (HITACHI SEISAKUSHO KK) 20 July 1985 * abstract * ---	1-9	
A	IBM-TECHNICAL DISCLOSURE BULLETIN vol. 23, no. 6, November 1980, pages 2464 - 2465 R.L.ARNDT,S.P.CUMMINGS AND D.W.PILLER 'Backup Terminal Provides Extra Capability During Normal Operation of Multi-Terminal Transaction-Processing System' ---	1-4,6-9	TECHNICAL FIELDS SEARCHED (Int. Cl.5) G07G G06F
A	EP-A-0 239 127 (TOKYO ELECTRIC CO.) * abstract; claim 1; figure 1 * ---	1-3	
P,X	WO-A-8 909 452 (NCR CORPORATION) * the whole document * ---	1-9	
P,X	WO-A-8 909 453 (NCR CORPORATION) * the whole document * ---	1-9	
A	EP-A-0 242 624 (OMRON TATEISI ELECTRONICS) * column 3, line 23 - column 5, line 36; claims 1-3 * --- -/--	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 DECEMBER 1992	Examiner GUIVOL O.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 11 2485

Page 2

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	DE-A-2 425 596 (BUNKER RAMO CORPORATION) * the whole document * -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 DECEMBER 1992	Examiner GUIVOL O.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			