## (12)

# **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3: **27.06.2007 Bulletin 2007/26** 

(51) Int Cl.: **G07D 11/00** (2006.01)

G07D 7/18 (2006.01)

(43) Date of publication A2: **10.01.2007 Bulletin 2007/02** 

(21) Application number: 06253385.6

(22) Date of filing: 28.06.2006

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

**Designated Extension States:** 

AL BA HR MK YU

(30) Priority: 29.06.2005 EP 05254073

(71) Applicant: MEI, Inc.

West Chester, PA 19380 (US)

(72) Inventor: Voser, Christian CH-1242 Satigny (CH)

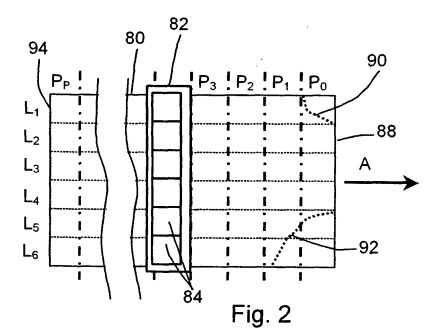
(74) Representative: Burke, Steven David et al

R.G.C. Jenkins & Co. 26 Caxton Street London SW1H 0RJ (GB)

#### (54) Banknote handling apparatus

(57) A first sensing means (82), which may form part of a banknote authenticator, is used to determine the profile of, for example, at least the leading edge (88) of a banknote (80). Actuators located elsewhere in the ban-

knote handling machine are operated in accordance with the outputs of other sensors, after taking the measured profile into consideration, so as to correct for errors due to the banknote being damaged in the area sensed by the other position detectors.



EP 1 742 183 A3



# **EUROPEAN SEARCH REPORT**

Application Number EP 06 25 3385

Category	Citation of document with indica of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Х	US 4 381 447 A (HORVA 26 April 1983 (1983-04 * column 2, line 21 - * column 7, line 57 - figures 1-10 *	1-26)   column 5, line 35 *	1-10	INV. G07D11/00 G07D7/18
X A	WO 97/43734 A (CUMMINS 20 November 1997 (1997) * page 90, line 6 - page 90	7-11-20)	2-10	
	figures 39-49 *			
Х	EP 1 295 825 A (KABUSI	HIKI KAISHA TOSHIBA)	1	
A	26 March 2003 (2003-03* paragraphs [0020] - [0074], [0094] - [012	[0024], [0046] -	2-10	
А	US 4 623 975 A (KAGAM 18 November 1986 (1986 * column 4, line 24 - figures 6-12F *	5-11-18)	1-10	
Α	US 4 944 505 A (SHERM) 31 July 1990 (1990-07-4 column 2, line 43 - figures 1-6 *	-31)	1-10	TECHNICAL FIELDS SEARCHED (IPC)
А	US 4 973 851 A (LEE E 27 November 1990 (1990 * column 3, line 39 - figures 1-9 *	9-11-27)	1	
А	WO 98/00815 A (DE LA I 8 January 1998 (1998-0 * page 5, line 8 - pag figures 1-3 *	91-08)	1	
	The present search report has been	· 		Examiner
		4 May 2007	Riv	vero, Carlos
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS  cularly relevant if taken alone cularly relevant if combined with another ment of the same category nological background	T: theory or princ E: earlier patent after the filing D: document oite L: document oite	iple underlying the document, but publi date d in the application d for other reasons	invention ished on, or



# **EUROPEAN SEARCH REPORT**

Application Number

EP	06	25	3385	
ASSIF			F THE C)	

	DOCUMENTS CONSIDERED TO BE RELEVANT				
Category	Citation of document with in of relevant pass		opriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	US 5 443 257 A (SAK 22 August 1995 (199 * column 4, line 31 figures 1-14B *	95-08-22)	, line 42;	1	
А	EP 1 139 303 A (KAE 4 October 2001 (200 * paragraphs [0105] 18A-19 *	01-10-04)	•	1	
					TECHNICAL FIELDS SEARCHED (IPC)
	The present search report has	been drawn up for all	claims		
	Place of search		oletion of the search	D.	Examiner
	The Hague	4 May			vero, Carlos
X : part Y : part docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anot unent of the same category inological background -written disclosure rmediate document	her	T: theory or principle E: earlier patent doc after the filing date D: document cited in L: document cited fo &: member of the sa document	ument, but publi e the application r other reasons	shed on, or

# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 06 25 3385

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

04-05-2007

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4381447	A	26-04-1983	AU AU CA DE FR GB GB GB GB GB SE	549568 B2 7547781 A 1199091 A1 3137253 A1 2495352 A1 2530595 A1 2088101 A 2133141 A 2133142 A 2133143 A 2134657 A 2133181 A 57086985 A 8105524 A	30-01-196 06-05-196 07-01-196 24-06-196 04-06-196 27-01-196 03-06-196 18-07-196 18-07-196 15-08-196 31-05-196 20-03-196
WO 9743734	Α	20-11-1997	AU CA EP	3003697 A 2254064 A1 1008094 A1	05-12-199 20-11-199 14-06-200
EP 1295825	A	26-03-2003	CN JP US	1410332 A 2003095481 A 2003057637 A1	16-04-200 03-04-200 27-03-200
US 4623975	Α	18-11-1986	DE EP	3277146 D1 0080158 A2	08-10-198 01-06-198
US 4944505	Α	31-07-1990	NONE		
US 4973851	Α	27-11-1990	NONE		
WO 9800815	Α	08-01-1998	AT DE DE EP TR	213352 T 69710465 D1 69710465 T2 0910838 A1 9802319 T2	15-02-20 21-03-20 27-06-20 28-04-19 21-06-20
US 5443257	Α	22-08-1995	NONE	:	
EP 1139303	Α	04-10-2001	US	2001028145 A1	11-10-200