

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number
WO 2005/029240 A3

(51) International Patent Classification⁷: G06F 7/00, G07F 7/00, G07D 5/00

3338 N. Paulina #2S, Chicago, IL 60657 (US). KLEIN, Robert, J. [US/US]; 2901 N. Wolcott, #G, Chicago, IL 60657 (US). HALLOWELL, Curtis, W. [US/US]; 1417 E. Reynolds Drive, Palatine, IL 60067 (US).

(21) International Application Number: PCT/US2004/030006

(74) Agents: KITCH, Paul, R. et al.; Jenkins & Gilchrist, a Professional Corporation, 225 W. Washington Street, Suite 2600, Chicago, IL 60606-3418 (US).

(22) International Filing Date: 15 September 2004 (15.09.2004)

(25) Filing Language: English

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(26) Publication Language: English

(30) Priority Data: 10/662,738 15 September 2003 (15.09.2003) US

(71) Applicant (for all designated States except US): CUMMINS-ALLISON CORP. [US/US]; 891 Feehanville Drive, Mount Prospect, IL 60056 (US).

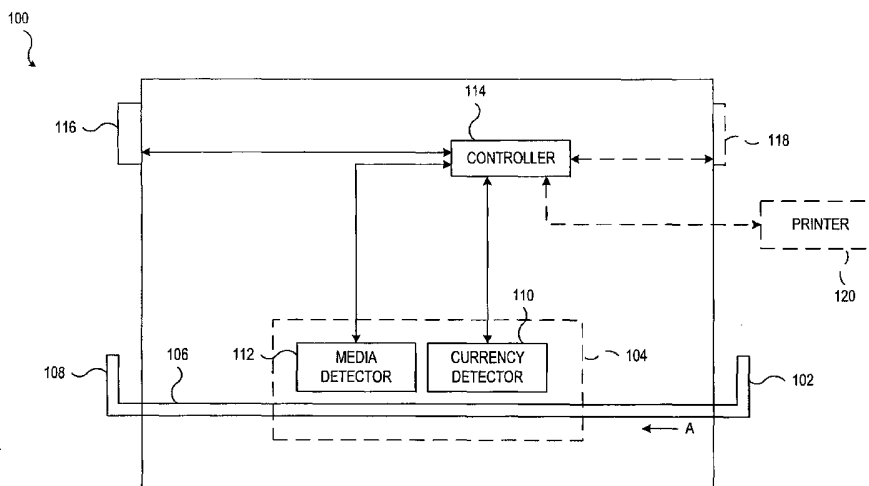
(72) Inventors; and

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

(75) Inventors/Applicants (for US only): JONES, William, J. [US/US]; 280 Poteet Avenue, Barrington, IL 60010 (US). MENNIE, Douglas, U. [US/US]; 229 Wood Street, Barrington, IL 60010 (US). JENRICK, Charles, P. [US/US];

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR PROCESSING CURRENCY AND IDENTIFICATION CARDS IN A DOCUMENT PROCESSING DEVICE



(57) Abstract: A document processing device having an evaluation region disposed along a transport path between an input and output receptacle capable of processing both currency bills and identification cards. An evaluation unit enables entry of source identification information before or after processing currency bills. Memory is adapted to store source identification information for multiple batches of currency. Multiple batches are placed in the processing device for multiple batch processing. The evaluation region includes detectors for detecting predetermined characteristics of currency bills and distinguishing identification cards from currency. During processing, the identification card, or other separator card, is sent to a predetermined output receptacle designated as a reject receptacle. Currency that is rejected is sent to the reject receptacle. Rejected currency is separated into batches by the identification cards sent to the reject receptacle during processing.

WO 2005/029240 A3



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Declaration under Rule 4.17:

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

(88) Date of publication of the international search report:

18 August 2005

Published:

— *with international search report*

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.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/30006

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(7) : G06F 7/00; G07F 7/00; G07D 5/00
 US CL : 700/223, 224, 225, 226; 194/206, 328
 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)
 U.S. : 700/223, 224, 225, 226; 194/206, 328

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 practicable, search terms used)
 EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- A	US Re. 38,663 (KAYANI et al.) 30 November 2004, column 5, lines 47-57 and column 6, lines 8-14 and lines 15-27.	1-6, 14, 16-19, 21, 33-41, 43-45, 47-50, 52-55, 59-62, 69, 70 ----- 7-13, 15, 20, 22-32, 42, 46, 51, 56-58, 63-68, 71-84
A	US 5692067 A (RATERMAN et al.) 25 November 1997.	1-84
A	US 5478992 A (HAMADA et al.) 26 December 1995.	1-84

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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 documents, such combination being obvious to a person skilled in the art
"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)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search: 24 March 2005 (24.03.2005)
 Date of mailing of the international search report: 06 JUN 2005

Name and mailing address of the ISA/US: Mail Stop PCT, Attn: ISA/US, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, Facsimile No. (703) 305-3230
 Authorized officer: Gene O. Crawford, Telephone No. 703/308-1113