



- (51) International Patent Classification:
B42D 15/00 (2006.01)
- (21) International Application Number:
PCT/IB2009/007292
- (22) International Filing Date:
2 November 2009 (02.11.2009)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/110,795 3 November 2008 (03.11.2008) US
- (72) Inventor; and
(71) Applicant : WANDERLEY, Luiz, Alberto [BR/BR];
Rua Jose Silva 222, CEP-22743-080 Rio de Janeiro, RJ (BR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,

ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (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, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) Date of publication of the international search report:
30 September 2010

(54) Title: SYSTEM AND PROCESSES FOR PROTECTION OF PAPER DOCUMENTS AGAINST FALSIFICATION, ADULTERATION AND LEAKAGE

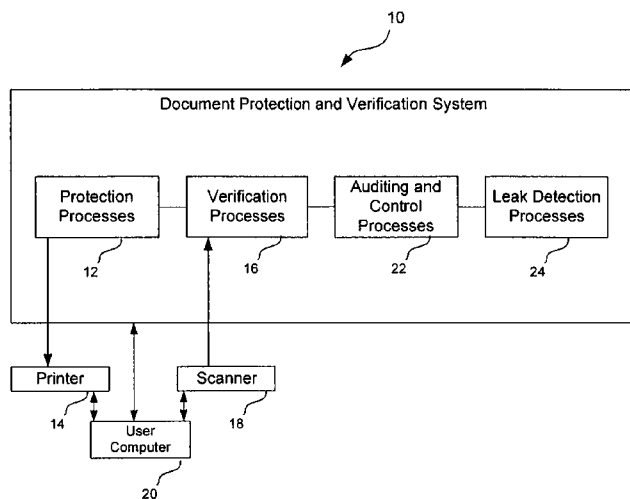


FIG. 1

(57) Abstract: Protection of documents printed in paper is provided by processes for detection of different types of falsification, adulteration, inclusion and omission. A remote service data center accessible from and to any location in which there is a connection to a network, such as through the Internet, provides customized protection and automatic verification of document pages. Documents pages are generated by the remote center and transmitted to remote printers, bypassing user operational system, using a specific driver of each printer, avoiding any access to protected document before effective printing. Documents include multiple types of security features including background images, computer readable code containing the printed content, identification information readable only with a predetermined optical filter, a copy alert, and personalized items to identify individuals responsible for non-authorized document disclosure or leakage.

WO 2010/061257 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 09/07292

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B42D 15/00 (2010.01)

USPC - 283/73

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)

USPC - 283/73

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC - 283/72, 82, 83; 705/50

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST (PGPB, USPT, EPAB, JPAB); Google (Scholar, Patents)

Search terms: document, original, copy, compare, protect, prevent, security feature, unauthorized, authenticate, network, Internet, printing, content, text, background, embed, coded, encoded, incorporate, indicator, copy alert, leak, trace

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2006/0213993 A1 (TOMITA) 28 September 2006 (28.09.2008), FIGS. 1-2, 4; paras [0009], [0016], [0020]-[0021], [0023]-[0025], [0028], [0032]	1-21
Y	US 2003/0039195 A1 (LONG et al.) 27 February 2003 (27.02.2003), FIG. 1F; paras [0012]-[0013], [0018], [0042]	1-21
Y	US 2005/0034069 A1 (CARLSON et al.) 10 February 2005 (10.02.2005), FIG. 8; para [0035]	5, 10, 19
Y	US 2007/0110235 A1 (PRUITT et al.) 17 May 2007 (17.05.2007), FIG. 1; paras [0037], [0062]	7-8, 11, 13-14, 21
Y	US 2004/0223645 A1 (CLIFF) 11 November 2004 (11.11.2004), para [0008]	12

Further documents are listed in the continuation of Box C.

* 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 application or patent 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)

"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

"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 documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

05 July 2010 (05.07.2010)

Date of mailing of the international search report

21 JUL 2010

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. 571-273-3201

Authorized officer:
 Lee W. Young

PCT Helpdesk: 571-272-4300
 PCT OSP: 571-272-7774