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  - (22) International Filing Date: 27 February 2015 (27.02.2015) (71) Applicant: CTPG OPERATING, LLC [US/US]; 950 Danby Road, Suite 200, Ithaca, NY 14850 (US).
  - (25) Filing Language: English (72) Inventors: TURNER, Kyle; 980 Old State Road, Binghamton, NY 13904 (US). DELANEY, Robert; 102 Westhaven Road, Ithaca, NY 14850 (US).
  - (26) Publication Language: English (74) Agents: PRICE, Frederick, JM et al.; Bond, Schoeneck & King, PLLC, One Lincoln Center, Syracuse, NY 13202 (US).
  - (30) Priority Data: (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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
- 61/947,174 3 March 2014 (03.03.2014) US
  - 61/947,135 3 March 2014 (03.03.2014) US
  - 61/947,197 3 March 2014 (03.03.2014) US
  - 61/947,152 3 March 2014 (03.03.2014) US
  - 61/947,206 3 March 2014 (03.03.2014) US
  - 61/947,111 3 March 2014 (03.03.2014) US

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR SECURING A DEVICE WITH A DYNAMICALLY ENCRYPTED PASSWORD

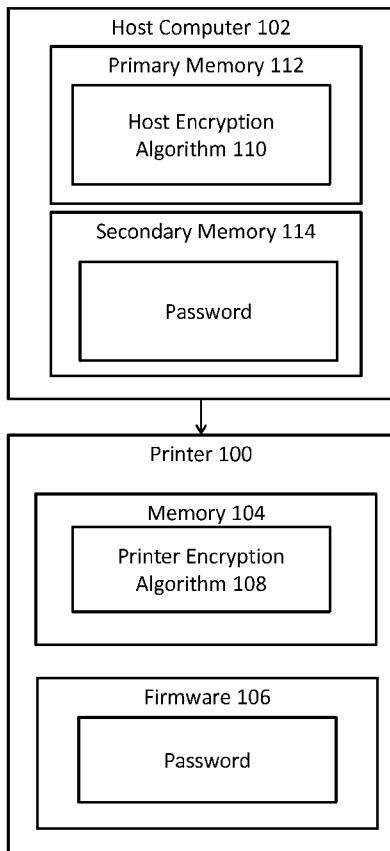


Fig. 1

(57) Abstract: The present invention relates to a system and method of securing a printer. The system includes a printer, having a nontransitory storage medium, configured to: store a password encrypted with a first encryption scheme; re-encrypt the stored password with a second encryption scheme upon a predetermined interval/event; receive a data stream from a host computer; determine whether the received data stream contains the password encrypted with the second encryption scheme; and print a document upon determining that the data stream contains the password encrypted with the second encryption scheme.



DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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2 June 2016

INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2015/018033

A. CLASSIFICATION OF SUBJECT MATTER  
INV. G06F21/44 G06F21/60  
ADD.  
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)  
G06F H04L

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)  
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 2006/037065 A1 (EKERS JOHN E [US] ET AL) 16 February 2006 (2006-02-16) paragraphs [0016], [0017], [0021] paragraphs [0024] - [0046] figure 1	13,14, 17-20 15,16 1-8
A	----- US 2012/174211 A1 (SUZUKI RYOICHI [JP]) 5 July 2012 (2012-07-05) paragraphs [0032], [0036] paragraphs [0042] - [0056], [0064]	1-20
A	----- US 2014/022586 A1 (ZEHLER PETER [US]) 23 January 2014 (2014-01-23) abstract paragraphs [0025] - [0035], [0040] - [0041] ----- -/--	1-20

Further documents are listed in the continuation of Box C.

See patent family annex.

\* 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)
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- "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  11 April 2016	Date of mailing of the international search report  20/04/2016
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Segura, Gustavo
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## INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2015/018033

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/168554 A1 (KIM HAENG NAN [KR]) 10 July 2008 (2008-07-10)	9-12
Y	paragraphs [0046] - [0055] -----	15,16

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2015/018033

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
US 2006037065	A1	16-02-2006	NONE	
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US 2012174211	A1	05-07-2012	JP 5644509 B2	24-12-2014
			JP 2012141856 A	26-07-2012
			US 2012174211 A1	05-07-2012
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US 2014022586	A1	23-01-2014	NONE	
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US 2008168554	A1	10-07-2008	NONE	
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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2015/018033

## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 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:
  
2.  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 No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  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 fees, this Authority did not invite payment of additional fees.
  
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 and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- 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: 1-8, 13, 14, 17-20

alterative host authentication

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2. claims: 9-12, 15, 16

locking feature of a printer

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