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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM,

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- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) **Title:** HIGH VALUE DOCUMENT AUTHENTICATION SYSTEM & METHOD

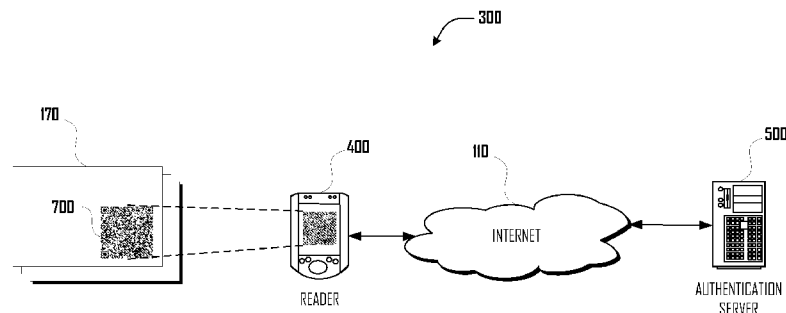


Fig. 3

(57) **Abstract:** Provided herein are systems and methods for providing document certification and authentication using 2D barcodes.

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A. CLASSIFICATION OF SUBJECT MATTER**G06K 9/18(2006.01)i, G06K 7/10(2006.01)i, G06F 21/24(2006.01)i**

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)

G06K 9/18; G06K 19/06; G06K 9/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: "barcode, QR, 2D, covert, overt, secret, certify, authentication, encryption"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2009-0108081 A1 (ZWIRNER et al.) 30 April 2009 See abstract; paragraphs 0020-0033; claims 17-25 and figures 1-12.	1,5-14,20,21 2-4,15-19,22-26
Y A	US 6567530 B1 (KERONEN et al.) 20 May 2003 See abstract; column 3, lines 4-29, column 6, lines 48-65 and claims 1-18.	1,5-14,20,21 2-4,15-19,22-26
A	US 2009-0134227 A1 (ROTH) 28 May 2009 See abstract; paragraphs 0011-0046; claims 13-19 and figures 1-10.	1-26
A	US 2008-0002882 A1 (VOLOSHYNOVSKYY et al.) 03 January 2008 See abstract; paragraphs 0031-0033 and figures 1-3.	1-26

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

* Special categories of cited documents:

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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

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/046901

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009-0108081 A1	30.04.2009	EP 2215587 A1 WO 2009-058268 A1	11.08.2010 07.05.2009
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US 2009-0134227 A1	28.05.2009	WO 2009-070197 A1	04.06.2009
US 2008-0002882 A1	03.01.2008	None	