

1) Family number: 49153148 (US2011161674A)

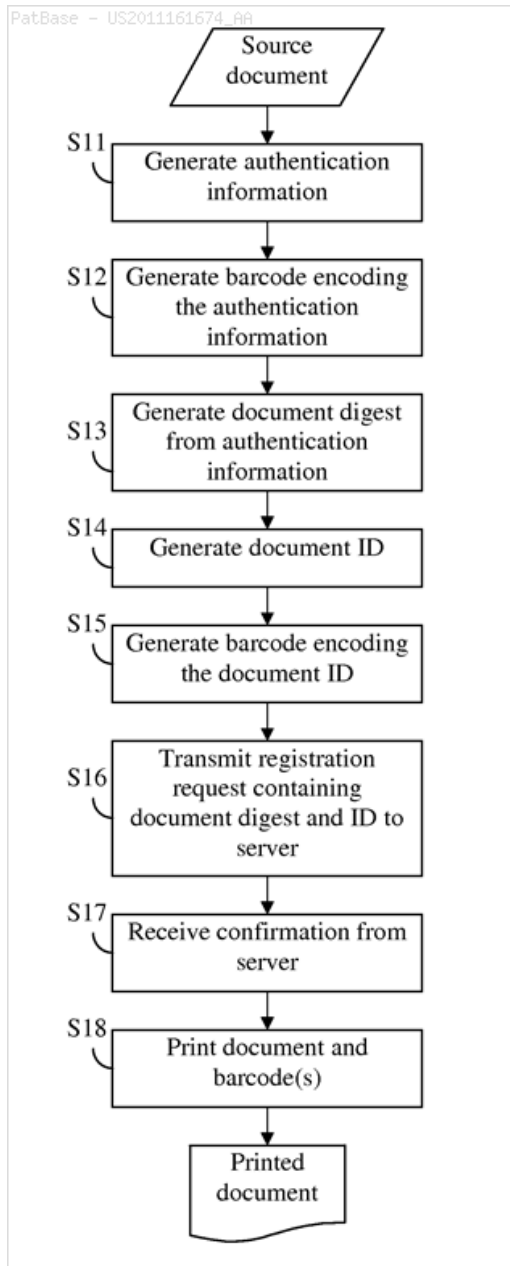
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Title: DOCUMENT AUTHENTICATION USING DOCUMENT DIGEST VERIFICATION BY REMOTE SERVER

Abstract: A method of generating a self-authenticating document while utilizing document digest stored on a server for verification purposes. Authentication information for the document is encoded in barcode which is printed on the document. A document digest is calculated from the authentication information and transmitted to a server to be stored. When authenticating a scanned copy of the document, the barcode is read to extract the authentication information. A target document digest is calculated from the extracted authentication information and transmitted to the server for verification. The server compares the target document digest with the previously stored document digest. If they are not the same, the barcode has been altered. If they are the same, the extracted authentication information is used to authenticate the scanned copy. A document ID may be generated and transmitted to the server, and used by the server to index or search for the stored document digest.

Classifications:

International (IPC 8-9): B41J2/01 G06F17/00 G06F17/21 G06F17/30
G06F21/24 G06K19/06 H04L9/32 H04N1/387 (Advanced/Invention)
CPC: G06F21/64 H04L9/3236 H04L2209/60
European: G06F21/64 H04L9/32H H04L9/32L T04L209/60
US: 235/375 235/375S 235/494 235/494S 347/107 347/107S
713/181 713/181P



Family:

Publication number	Publication date	Application number	Application date
JP2011154680 A2	20110811	JP20100289582	20101227
US2011161674 AA	20110630	US20090648951	20091229

Priority:

US20090648951 20091229

Probable Assignee: KONICA MINOLTA HOLDINGS INC

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Assignee(s): KONICA MINOLTA SYSTEMS LABORATORY INC ; KONICA MINOLTA LABORATORY USA INC ; KONICA MINOLTA HOLDINGS INC
Inventor(s): (std): MING WEI
Agent(s): KOYO INT PATENT FIRM

2) Family number: 57359176 (US2014254796A)

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Title: METHOD AND APPARATUS FOR GENERATING AND/OR PROCESSING 2D BARCODE

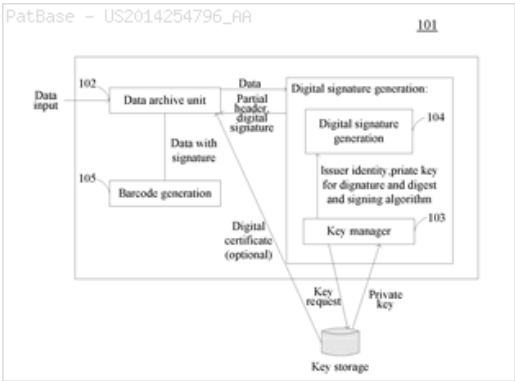
Abstract: A computer-complemented method for generating a 2D barcode, including retrieving a predetermined private key, a predetermined digital signature method and an issuer identity of a 2D barcode; generating a signature for at least one data with the retrieved private key in accordance with the retrieved digital signature method; inserting the at least one printable data together with the generated signature and the retrieved issuer identity into a self-contained data unit; and creating a barcode image containing the self-contained data unit.

Classifications:

International (ipc 8-9): H04L9/32 (Advanced/Invention)

CPC: H04L9/3231 H04L9/3263 H04L9/3247 G09C5/00

US: 380/246



Family:

Publication number	Publication date	Application number	Application date
US2014254796 AA	20140911	US20130790536	20130308

Priority:

US20130790536 20130308

Probable Assignee: CHINESE UNIV OF HONG KONG

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Inventor(s): (std): LI CHAK MAN ; LAU WING CHEONG

3) Family number: 33899499 (US2006271787A)

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Title: SYSTEM AND METHOD FOR VALIDATING A HARD-COPY DOCUMENT AGAINST AN ELECTRONIC VERSION

Abstract: The disclosure recites methods for verifying that the authenticity of a hard copy document by verifying that a digital signature printed on that document matches the signature on the original electronic document. The method includes converting a physical manifestation of a digital signature affixed to the hard copy document to an electronic digital signature, validating the electronic digital signature via a public key to authenticate the hard-copy document, and comparing a message digest of the original electronic document to a message digest coded in the digital signature. It also includes documents having multiple digital signatures embedded using a variety of techniques, converting those printed digital signatures into electronic forms, and validating each electronic digital signature independently and against each other.

Classifications:

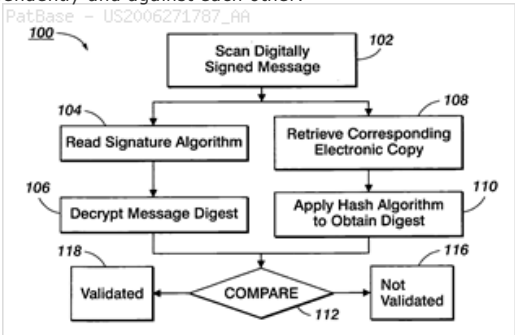
International (ipc 8-9): H04L9/00 (Advanced/Invention);

H04L9/00 (Core/Invention)

CPC: H04L9/3236 H04L9/3247 H04L2209/56 H04L2209/60

European: H04L9/32S

US: 713/176 713/176P 713/181 713/181S



Family:

Publication number	Publication date	Application number	Application date
US2006271787 AA	20061130	US20050140688	20050531

Priority:

US20050140688 20050531

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Agent(s): PATENT DOCUMENTATION CENTER

Title: COUPON BARCODE INTERNET VERIFICATION SYSTEM

Abstract: An interactive Internet-based Coupon Barcode Verification system comprises a central computer system connected to the Internet. The system is adapted to be accessed by one or more authorized personal computers. A browser and keyboard, and optionally a barcode reader, constitute the minimal hardware and software required to verify the validity of barcode data. The barcode data can be transmitted over the Internet to the coupon barcode verification system by means of the keyboard. Alternatively, the barcode reader and the web browser transmits the information. An algorithm logic means analyzes the barcode data provided by the authorized personal computers to determine the validity of the barcode data. The validity determination is based on UCC guidelines, recognized MIN, Family Code, Value Code and EAN-128 Extended Codes. Advantageously, the system enables manufactures to issue coupons having valid barcodes. Coupon clearinghouses can view coupon graphics before issuance, and retailers can identify and document barcode errors. Fines based on coupon defects are virtually eliminated. The system facilitates coupon classification and facilitates validation by providing a validation or a failure report.

Classifications:

International (IPC 8-9): G06Q30/00 G06Q30/02 (Advanced/Invention); G06Q30/00 (Core/Invention)

International (IPC 1-7): G06F17/60

CPC: G06Q30/02 G06Q30/0225 G06Q30/0248

European: G06F17/60B2 G06Q30/02 G06Q30/0225 G06Q30/0248

US: 705/14 705/14.26 705/14.26P 705/14.47 705/14.470S

PatBase - US2004103023_AA

Patent Application Publication May 27, 2004 Sheet 1 of 10 US 2004/0103023 A1

Figure 1**Family:**

Publication number	Publication date	Application number	Application date
US2004103023 AA	20040527	US20020302504	20021125

Priority:

US20020302504 20021125

Probable Assignee: FOX LAWRENCE F

Assignee(s): FOX LAWRENCE F ; IRWIN JOHN R ; O HEAR JOAN WYNDRUM

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