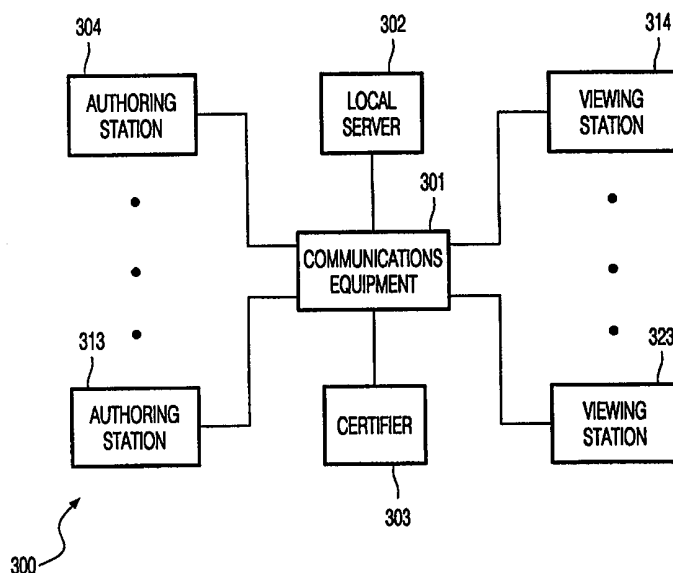




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(21) International Application Number: PCT/IB98/02120 (22) International Filing Date: 28 December 1998 (28.12.98) (30) Priority Data: 09/002,098 31 December 1997 (31.12.97) US (71) Applicant: KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (71) Applicant (for SE only): PHILIPS AB [SE/SE]; Kottbygatan 7, Kista, S-164 85 Stockholm (SE). (72) Inventor: EPSTEIN, Michael; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). (74) Agent: FAESSEN, Louis, M., H.; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).		(81) Designated States: CA, CN, JP, KR, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 16 September 1999 (16.09.99)

(54) Title: TRANSMITTING REVISIONS WITH DIGITAL SIGNATURES**(57) Abstract**

In a computer network, documents are produced, the document is hashed to produce a fingerprint, and the fingerprint is encrypted to sign the document, then the document signature is transmitted from the user system to a secure computer system. The secure computer system creates a time stamp including the document signature and a digital time. The secure system signs the time stamp to verify its origin. The time stamp and notary's signature are transmitted from the secure system to the user's system. The user has access to the notary's public key which is used to determine whether the time stamp is authentic. Then the document is revised, the revised document is hashed and the hash is combined with an indication that the revision is related to the original document. The indication could be a hash of the original document, the original document signature, the notary's time stamp for the original document, or the notary's signature for the original document.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 98/02120

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04L 9/32

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)

IPC6: H04L

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5136646 A (STUART A. HABER ET AL), 4 August 1992 (04.08.92), abstract --	1-22
A	US 5659616 A (FRANK WELLS SUDIA), 19 August 1997 (19.08.97), abstract --	1-22
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A	EP 0586022 A1 (FISCHER, ADDISON M.), 9 March 1994 (09.03.94), abstract -- -----	1-22



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Date of the actual completion of the international search

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information on patent family members

01/07/99

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