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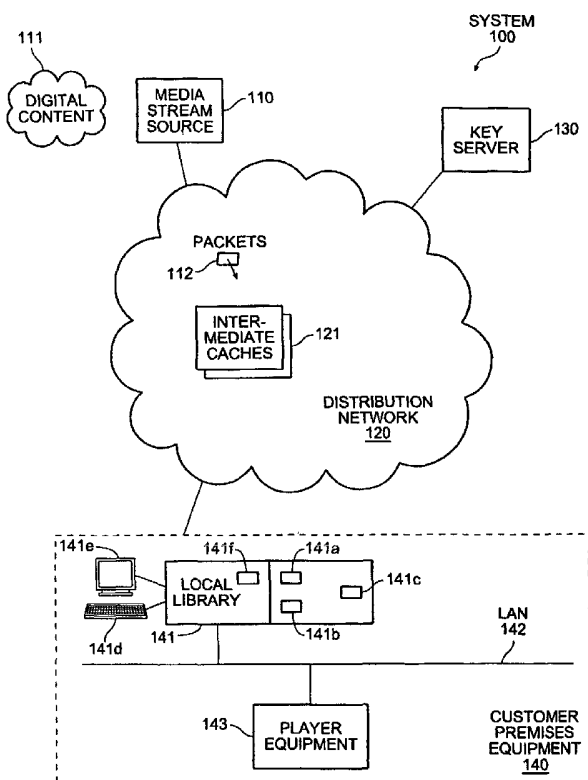
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[Continued on next page]

(54) Title: SECURE PRESENTATION OF ENCRYPTED DIGITAL CONTENT



(57) Abstract: Secure presentation of media streams (110) includes encoding the media streams (110, 111) into digital content (111), encrypting a portion of that digital content (230, 231, 232), the portion being required for presentation, in which the encrypted version is substantially unchanged in formatting parameters from the clear version of the digital content (111). Selecting those portions for encryption so there is no change in distribution of the media stream: packetization of the digital data, or synchronization of audio with video portions of the media stream. When encoding the media stream into MPEG-2, refraining from encrypting information by which the video block data is described, packet formatting information, and encrypting the video block data using a block-substitution cipher. A block-substitution cipher can be used to encrypt each sequence of 16 bytes of video data in each packet, possibly leaving as many as 15 bytes of video data in each packet in the clear (260).

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MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

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**Declaration under Rule 4.17:**

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

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**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/US03/21650

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC(7) : H04L 9/00 US CL : 713/176 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) U.S. : 713/176		
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) Please See Continuation Sheet		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2001/0051996 A1 (COOPER et al) 13 December 2001, entire document	1-26
Y, P	US 2003/00005295 A1 (GIRARD) 02 January 2003, entire document	1-26
A	US 5,337,357 A (CHOU et al) 09 August 1994, entire document	1-26
A, P	US 2002/0095582 A1 (PELED et al) 18 July 2002, entire document	1-26
A	US 2001/0037465 A1 (HART III et al) 01 November 2001, entire document	1-26
A	US 2002/0087876 A1 (LAROSE) 04 July 2002, entire document	1-26
A	US 6,009,525 A (HORSTMANN) 28 December 1999, entire document	1-26
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents:	"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	
"A" document defining the general state of the art which is not considered to be of particular relevance	"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	
"E" earlier application or patent published on or after the international filing date	"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	
"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)	"&" document member of the same patent family	
"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		
Date of the actual completion of the international search 17 October 2003 (17.10.2003)	Date of mailing of the international search report <b>19 NOV 2003</b>	
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. (703)305-3230	Authorized officer <i>Sheikh</i> Telephone No. 703-305-9648	

**INTERNATIONAL SEARCH REPORT**

PCT/US03/21650

**Continuation of B. FIELDS SEARCHED Item 3:**

**GOOGLE(NPL) search terms: "secure presentation" + "secure rendering" + watermark + distributed + digital rights management" + digital content distribution" + "software fingerprinting"**