



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>H04B 1/66, G11B 20/00</b>	<b>A3</b>	(11) International Publication Number: <b>WO 95/14289</b> (43) International Publication Date: 26 May 1995 (26.05.95)								
<p>(21) International Application Number: PCT/US94/13366</p> <p>(22) International Filing Date: 16 November 1994 (16.11.94)</p> <p>(30) Priority Data:</p> <table border="0"> <tr> <td>154,866</td> <td>18 November 1993 (18.11.93)</td> <td>US</td> </tr> <tr> <td>215,289</td> <td>17 March 1994 (17.03.94)</td> <td>US</td> </tr> <tr> <td>327,426</td> <td>21 October 1994 (21.10.94)</td> <td>US</td> </tr> </table> <p>(60) Parent Application or Grant (63) Related by Continuation US 08/327,426 (CIP) Filed on 21 October 1994 (21.10.94)</p> <p>(71) Applicant (for all designated States except US): PINECONE IMAGING CORPORATION [US/US]; 363 S.W. Tualatin Loop, West Linn, OR 97068 (US).</p> <p>(72) Inventor; and (75) Inventor/Applicant (for US only): RHOADS, Geoffrey, B. [US/US]; 363 S.W. Tualatin Loop, West Linn, OR 97068 (US).</p>	154,866	18 November 1993 (18.11.93)	US	215,289	17 March 1994 (17.03.94)	US	327,426	21 October 1994 (21.10.94)	US	<p>(74) Agent: CONWELL, William, Y.; Klarquist, Sparkman, Campbell, Leigh &amp; Whinston, One World Trade Center, Suite 1600, 121 S.W. Salmon Street, Portland, OR 97204 (US).</p> <p>(81) Designated States: CA, JP, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p><b>Published</b> <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 29 June 1995 (29.06.95)</p>
154,866	18 November 1993 (18.11.93)	US								
215,289	17 March 1994 (17.03.94)	US								
327,426	21 October 1994 (21.10.94)	US								
(54) Title: IDENTIFICATION/AUTHENTICATION CODING METHOD AND APPARATUS										
<p>(57) Abstract</p> <p>An identification code signal is impressed on a carrier to be identified (such as an electronic data signal or a physical medium) in a manner that permits the identification signal later to be discerned and the carrier thereby identified. The method and apparatus are characterized by robustness despite degradation of the encoded carrier, and by holographic permeation of the identification signal throughout the carrier. An exemplary embodiment is a processor that embeds the identification signal onto a carrier signal in real time.</p>										

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INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 94/13366

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6 H04B1/66 G11B20/00

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)  
IPC 6 H04B G11B G06K

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 practical, 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.
X	GB,A,2 196 167 (THORN EMI) 20 April 1988	1,2,5, 21,22
Y		3
A	see page 1, line 35 - page 2, line 35 ----	4,9
Y	EP,A,0 411 232 (IBM) 6 February 1991 see page 4, line 7 - line 12 see page 5, line 28 - line 35 ----	3
A	EP,A,0 372 601 (PHILIPS) 13 June 1990 see column 3, line 47 - column 4, line 12 see column 7, line 3 - line 17 ----	1
A	DE,A,38 06 411 (DEUTSCHE THOMSON-BRANDT) 7 September 1989 see column 3, line 5 - column 4, line 25 -----	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- \*&\* document member of the same patent family

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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DE-A-3806411	07-09-89	NONE	