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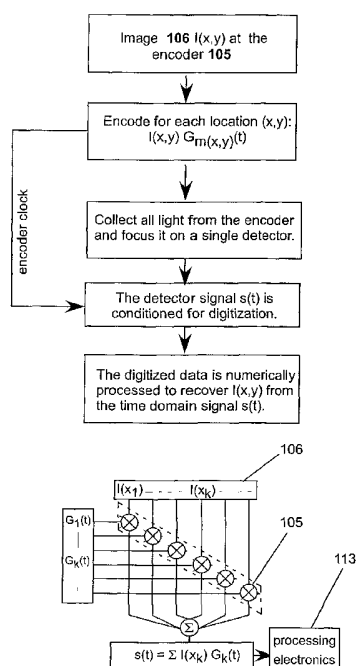
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(54) Title: OPTICAL ENCODING AND RECONSTRUCTION

(57) Abstract: A method including: (i) modulating (105) multiple components (e.g., different spatial regions, different wavelengths, or both) of electromagnetic radiation emerging from an object with different time-varying functions; (ii) measuring at least one time-varying signal derived from the modulated electromagnetic radiation emerging from the object; and (iii) reconstructing information about the object based on the measured signal and the time-varying functions.





— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23069

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01J 1/00 US CL : 250/351 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) U.S. : 250/351 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE																				
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X --- Y</td> <td>US 3,083,299 A (CRUSE) 26 March 1963 (26.03.1963), column 2, line 24 to column 8, line 26.</td> <td>1, 2, 5-8, 11, 12, 21-23, 28, 29, 32, 33, 35, 37, 45, 46, 48, 49, 51, 55, 56, 60, and 61 ----- 3, 4, 9, 10, 13-20, 24-27, 30, 31, 34, 36, 38-44, 47, 50, 52-54, 57-59, and 62-64</td> </tr> <tr> <td>Y</td> <td>US 3,151,247 A (AUVERMANN) 29 September 1964 (29.09.1964), column 1, lines 16-35, column 9, lines 19-26, Fig. 1.</td> <td>3, 15-20, 31, and 40</td> </tr> <tr> <td>Y</td> <td>US 3,160,751 A (DUNNING) 08 December 1964 (08.12.1964), column 2, lines 8-19.</td> <td>38-43</td> </tr> <tr> <td>Y</td> <td>US 3,846,630 A (SUHAMI et al) 05 November 1974 (05.11.1974), column 1, lines 17-35.</td> <td>47</td> </tr> <tr> <td>Y</td> <td>US 3,825,348 A (NORMARSKI et al) 23 July 1974 (23.07.1974), column 1, line 7 to column 2, line 26.</td> <td>9, 25-27, and 30</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X --- Y	US 3,083,299 A (CRUSE) 26 March 1963 (26.03.1963), column 2, line 24 to column 8, line 26.	1, 2, 5-8, 11, 12, 21-23, 28, 29, 32, 33, 35, 37, 45, 46, 48, 49, 51, 55, 56, 60, and 61 ----- 3, 4, 9, 10, 13-20, 24-27, 30, 31, 34, 36, 38-44, 47, 50, 52-54, 57-59, and 62-64	Y	US 3,151,247 A (AUVERMANN) 29 September 1964 (29.09.1964), column 1, lines 16-35, column 9, lines 19-26, Fig. 1.	3, 15-20, 31, and 40	Y	US 3,160,751 A (DUNNING) 08 December 1964 (08.12.1964), column 2, lines 8-19.	38-43	Y	US 3,846,630 A (SUHAMI et al) 05 November 1974 (05.11.1974), column 1, lines 17-35.	47	Y	US 3,825,348 A (NORMARSKI et al) 23 July 1974 (23.07.1974), column 1, line 7 to column 2, line 26.	9, 25-27, and 30
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☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.																				
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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/23069**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

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Y	US 4,287,412 A (COUDERC et al) 01 September 1981 (01.09.1981), column 1, line 39 to column 2, line 3; column 3, line 62 to column 4, line 12.	4, 13-18, 24, 34, 36, 43, 44, 52-54, 57-59, and 62-64
Y	US 5,526,121 A (SANDIFER et al) 11 June 1996 (11.06.1996), column 4, lines 45-60.	18 and 50
Y	US 6,177,674 B1 (RUTT et al) 23 January 2001 (23.01.2001), column 1, lines 32-46.	10