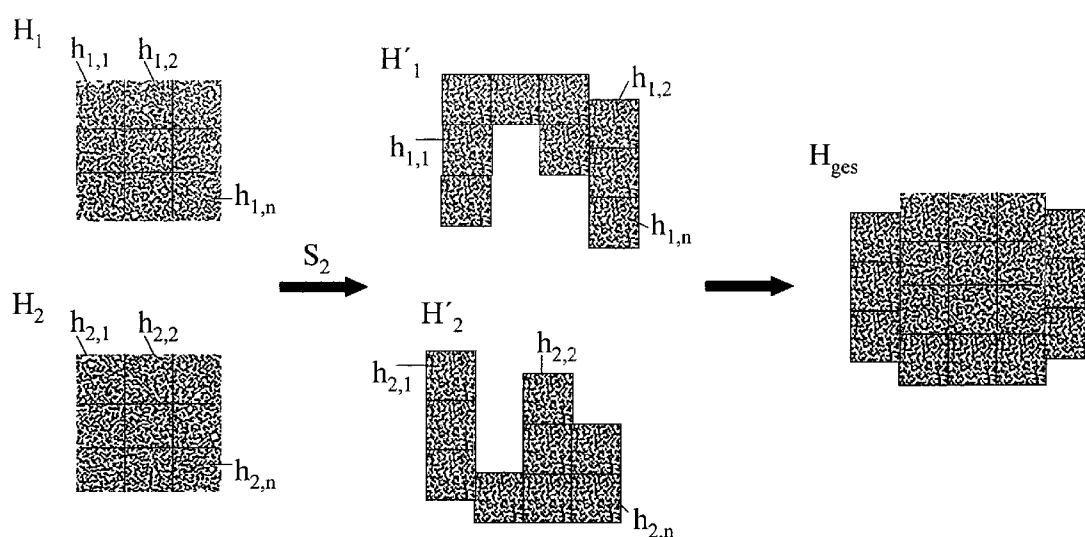


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24 November 2006 (24.11.2006) DE(71) **Applicant (for all designated States except US):** **BAYER INNOVATION GMBH** [DE/DE]; Merowingerplatz 1, 40225 Dusseldorf (DE).(72) **Inventor; and**(75) **Inventor/Applicant (for US only):** **ASFOUR, Jean-Michel** [FR/DE]; Kriemhildstr. 11, 69469 Weinheim (DE).(74) **Agent:** **HILDEBRAND, Steven, Christopher;** Bayer Business Services GmbH, Law & Patents, Patents and Licensing, Building Q 18, 51368 Leverkusen (DE).(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, **BR**, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, **HR**, HU, **ID**, IL, IN, IS, **JP**, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW(84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**Published:**

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(88) **Date of publication of the international search report:**
17 July 2008(54) **Title:** CODING METHOD, DECODING METHOD, CODEC AND DATA STORAGE MEDIUM FOR HOLOGRAPHIC STORAGE(57) **Abstract:** In a coding method for the encryption of information worth protecting on a holographic data storage medium, an item of information (I ; I_1 , I_2) to be encrypted is converted into a graphic data image (D_1 , D_2), which is in turn converted into a hologram in order to write the holographic data storage medium (4) therewith. The invention provides for the hologram to be changed graphically before the writing of the holographic data storage medium (4). As a result of the manner in which the hologram is changed graphically, encryption which is less susceptible to faults is achieved in a simple way, which presents increased resistance to a parallelized brute force attack.

INTERNATIONAL SEARCH REPORT

International application No
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A CLASSIFICATION OF SUBJECT MATTER ,
INV. G09C5/00 G03H1/00

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)
G09C G03H G11B

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)

EPO-Internal , WPI Data

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication where appropriate, of the relevant passages	Relevant to claim No
A	<p>GUO Y ET AL: "DECOMPOSITION STORAGE OF INFORMATION BASED ON COMPUTER-GENERATED HOLOGRAM INTERFERENCE AND ITS APPLICATION IN OPTICAL IMAGE ENCRYPTION" APPLIED OPTICS, OSA, OPTICAL SOCIETY OF AMERICA, WASHINGTON, DC, vol. 40, no. 17, 10 June 2001 (2001-06-10), pages 2860-2863, XPOOL 103065 ISSN: 0003-6935 the whole document -----</p>	1-21
A	<p>GB 2 245 983 A (MARCONI GEC LTD [GB]) 15 January 1992 (1992-01-15) the whole document -----</p>	1-21
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Date of the actual completion of the international search

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26/05/2008

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International application No
PCT/EP2007/009795

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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