

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 September 2001 (13.09.2001)

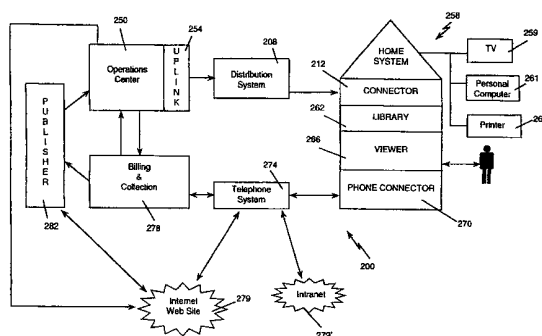
PCT

(10) International Publication Number
WO 01/67302 A3

- (51) International Patent Classification⁷: H04N 7/173, 7/18, G06F 15/02
- (74) Agents: HARROP, John, K. et al.; Dorsey & Whitney, LLP, Suite 300 South, 1001 Pennsylvania Avenue, N.W., Washington, DC 20004 (US).
- (21) International Application Number: PCT/US01/04946
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date: 7 March 2001 (07.03.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/520,344 7 March 2000 (07.03.2000) US
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant: DISCOVERY COMMUNICATIONS, INC. [—/US]; 7700 Wisconsin Avenue, Bethesda, MD 20814-3522 (US).
- (72) Inventors: HENDRICKS, John, S.; 8723 Persimmon Tree Road, Potomac, MD 20854 (US). MCCOSKEY, John, S.; 4692 N. Lariat Drive, Castle Rock, CO 80104 (US). ASMUSSEN, Michael, L.; 2627 Meadow Hall Drive, Herndon, VA 20171 (US).
- Published: — with international search report
- (88) Date of publication of the international search report: 18 April 2002

[Continued on next page]

(54) Title: ELECTRONIC BOOK VIEWER CONNECTION TO WORLD WATCH LIVE



(57) Abstract: An electronic book selection and delivery system (200) distributes electronic text and graphics to subscribers. The system contains an operations center (250), a video distribution system (208) or a variety of alternative distribution systems, a home subsystem (258), and a billing and collection system (278). The operations center and/or distribution points perform the functions of manipulation of text data, security and coding of text, cataloging of books, message center, and uplink functions. The home subsystem connects to a video distribution system or variety of alternative distribution systems, generates menus and stores text, and transacts through communicating mechanisms. A portable book-shaped viewer (266) is used for viewing the text. The viewer can receive digital video data from a variety of sources, including the Internet by wired or wireless connections (274, 279). The viewer may use the Internet connection to control and receive multiple line video feeds such as from a world watch live system. Users may be able to view a plurality of remote locations in real time and remotely control a video picture of a distant location. The remote control may be either actual control of a remote video camera or perceived remote control by the manipulation of audiovisual data streams. Text, graphics, and other video information supplement one or more video pictures to provide an educational and entertaining system. Information is accessible to users who are viewing multiple video pictures. The information relates and describes what is being viewed. Users who have different types of equipment, with different data rates, are able to access and use the system of the present invention. Users may interactively communicate with a video lecturer by asking questions and receiving answers.

WO 01/67302 A3



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/04946

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04N7/173 H04N7/18 G06F15/02

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 7 H04N G06F

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | WO 99 12349 A (DISCOVERY COMMUNICAT INC) 11 March 1999 (1999-03-11) cited in the application | 8-27 |
| Y | page 12, line 20 -page 45, line 13; figures 3-21 | 1-7, 33-52 |
| X | WO 99 44144 A (HEUTSCHI THEODOR ;INTERNOVA HOLDING AG (CH)) 2 September 1999 (1999-09-02) | 28,29,32 |
| Y | the whole document | 1-7,30, 31,33-52 |
| Y | WO 95 15649 A (DISCOVERY COMMUNICAT INC ;HENDRICKS JOHN S (US)) 8 June 1995 (1995-06-08) cited in the application | 30 |
| A | page 1, line 33 -page 4, line 21 page 31, line 19 -page 35, line 15 | 28-40 |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *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)
- *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

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

Date of the actual completion of the international search

5 October 2001

Date of mailing of the international search report

16/10/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Guettlich, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/04946

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|--|-----------------------|
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | <p>RAUCH T ET AL: "Enabling the book metaphor for the World-Wide-Web: disseminating on-line information as dynamic Web documents"</p> <p>IEEE TRANSACTIONS ON PROFESSIONAL COMMUNICATION, IEEE INC. NEW YORK, US, vol. 40, no. 2, June 1997 (1997-06), pages 111-128, XP002142136</p> <p>ISSN: 0361-1434</p> | 31 |
| A | <p>page 113, middle column; figure 2</p> <p>page 117, middle column</p> <p>page 119, middle column -right-hand column</p> <p>---</p> | 28-40 |
| A | <p>US 5 761 485 A (MUNYAN DANIEL E)</p> <p>2 June 1998 (1998-06-02)</p> <p>the whole document</p> <p>-----</p> | 28-40 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/04946

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date | |
|--|------------------|-------------------------|------------------|------------|
| WO 9912349 | A | 11-03-1999 | AU 9299398 A | 22-03-1999 |
| | | | CN 1278384 T | 27-12-2000 |
| | | | EP 1025696 A1 | 09-08-2000 |
| | | | WO 9912349 A1 | 11-03-1999 |
| WO 9944144 | A | 02-09-1999 | AU 2407499 A | 15-09-1999 |
| | | | WO 9944144 A1 | 02-09-1999 |
| | | | CN 1256770 T | 14-06-2000 |
| | | | EP 0985179 A1 | 15-03-2000 |
| | | | NO 995201 A | 16-12-1999 |
| WO 9515649 | A | 08-06-1995 | US 5990927 A | 23-11-1999 |
| | | | US 5798785 A | 25-08-1998 |
| | | | US 5986690 A | 16-11-1999 |
| | | | AU 1333795 A | 19-06-1995 |
| | | | CA 2177154 A1 | 08-06-1995 |
| | | | EP 0732027 A1 | 18-09-1996 |
| | | | JP 9506225 T | 17-06-1997 |
| | | | WO 9515649 A1 | 08-06-1995 |
| | | | AT 197659 T | 15-12-2000 |
| | | | AU 693148 B2 | 25-06-1998 |
| | | | AU 1430695 A | 19-06-1995 |
| | | | BR 9408211 A | 26-08-1997 |
| | | | CA 2177153 A1 | 08-06-1995 |
| | | | DE 69426308 D1 | 21-12-2000 |
| | | | DE 69426308 T2 | 21-06-2001 |
| | | | EP 0732031 A1 | 18-09-1996 |
| | | | EP 0963116 A2 | 08-12-1999 |
| | | | ES 2151590 T3 | 01-01-2001 |
| | | | JP 9510327 T | 14-10-1997 |
| | | | NZ 278185 A | 27-04-1998 |
| WO 9515658 A1 | 08-06-1995 | | | |
| US 6201536 B1 | 13-03-2001 | | | |
| US 5761485 | A | 02-06-1998 | AU 702452 B2 | 18-02-1999 |
| | | | AU 1085497 A | 19-06-1997 |
| | | | BR 9611855 A | 28-12-1999 |
| | | | CA 2231807 A1 | 05-06-1997 |
| | | | CN 1203679 A | 30-12-1998 |
| | | | EP 0864128 A1 | 16-09-1998 |
| | | | JP 2000501214 T | 02-02-2000 |
| | | | TR 9800953 T2 | 21-09-1998 |
| | | | WO 9720274 A1 | 05-06-1997 |