

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/091728 A3

(51) International Patent Classification⁷: G11B 19/02

(21) International Application Number:
PCT/KR2005/000829

(22) International Filing Date: 22 March 2005 (22.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2004-0020890 26 March 2004 (26.03.2004) KR
10-2004-0022251 31 March 2004 (31.03.2004) KR

(71) Applicant (for all designated States except US): LG ELECTRONICS INC. [KR/KR]; 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SEO, Kang Soo [KR/KR]; 104-1504, Chowon APT., #898, Pyeongchon-dong, Dongan-gu, Anyang-si, Gyeonggi-do, 431-070 (KR). KIM, Byung Jin [KR/KR]; 111-204, Chonggu APT., Hansolmaeul, #110, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-914 (KR). YOO, Jea Yong [KR/KR]; 205-808, Ssangyong APT., Garak 2-dong, Songpa-gu, Seoul, 138-747 (KR).

(74) Agents: BAHNG, Hae Cheol et al.; KBK & Associates, 15th Floor Yosam Building, 648-23, Yeoksam-dong, Kangnam-gu, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

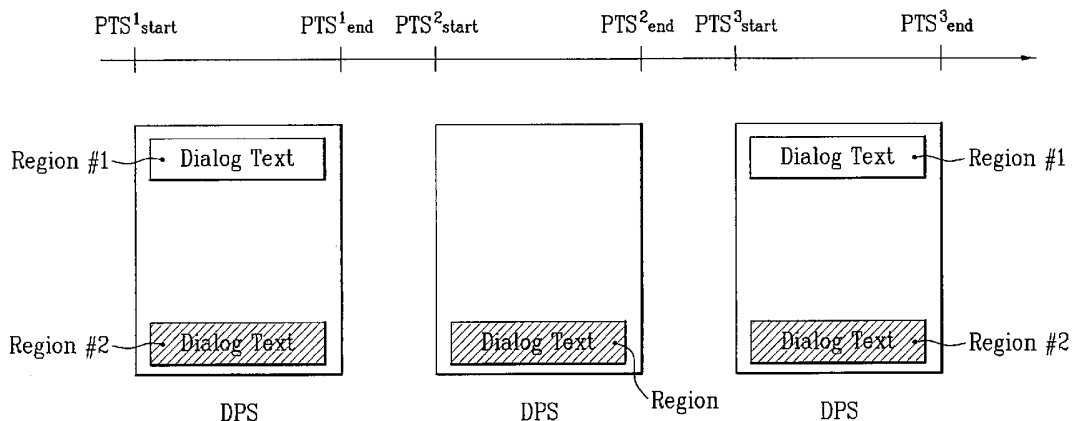
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, 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:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
17 November 2005

[Continued on next page]

(54) Title: RECORDING MEDIUM, METHOD, AND APPARATUS FOR REPRODUCING TEXT SUBTITLE STREAMS



(57) Abstract: A recording medium, method, and apparatus for reproducing text subtitle streams are disclosed. A buffer initially preloads a text subtitle stream including a dialog style segment defining a group of region styles and first and second dialog presentation segments. A text subtitle decoder initially presents a first region of dialog text included in the first dialog presentation segment in a graphics plane and reads a continuous presentation flag included in the second dialog presentation segment, which includes a second region of dialog text. The text subtitle decoder presents the second region of dialog text by preserving the presentation of the first region of dialog text in the graphics plane if the continuous segment indicates that continuous presentation is required between the first and second regions of the dialog text.

WO 2005/091728 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/KR 2005/000829

A. CLASSIFICATION OF SUBJECT MATTER IPC ⁷ : G11B 19/02 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 : G11B 19/02, 27/00		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched G11B		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 20030022390 A (KIM et al.) 9 April 2003 (09.04.2003) <i>the whole document.</i> --	1, 7, 9,13
A	JP 2000285646 A (BROTHER) 13 October 2000 (13.10.2000) <i>the whole document.</i> ----	1, 7, 9, 13
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"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</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 22 September 2005 (22.09.2005)		Date of mailing of the international search report 3 October 2005 (03.10.2005)
Name and mailing address of the ISA/ AT Austrian Patent Office Dresdner Straße 87, A-1200 Vienna Facsimile No. +43 / 1 / 534 24 / 535		Authorized officer GRÖSSING G. Telephone No. +43 / 1 / 534 24 / 386

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR 2005/000829

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP A 20002856 46A2		none	
KR A 20030022 390		none	