

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/006251 A1

(51) International Patent Classification⁷: **G11B 20/10**

(21) International Application Number:
PCT/KR2003/001306

(22) International Filing Date: 3 July 2003 (03.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2002-0038880 5 July 2002 (05.07.2002) KR
10-2003-0000436 4 January 2003 (04.01.2003) KR

(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**
[KR/KR]; 416 Maetan-dong, Paldal-gu, Suwon-city,
Kyungki-do 442-373 (KR).

(72) Inventors: **JUNG, Kil-Soo**; 107-707 Hanshin Apt., 485,
Byungjeom-ri, Taean-eub, Hwaseong-gun, Gyeonggi-do

445-970 (KR). **PARK, Sung-Wook**; 4-1103 Mapo
Hyundai Apt., 188-108, Gongdeok 2-dong, Mapo-gu,
Seoul 121-022 (KR). **CHUNG, Hyun-Kwon**; (302) 569
Shinsa-dong, Gangnam-gu, Seoul 135-120 (KR).

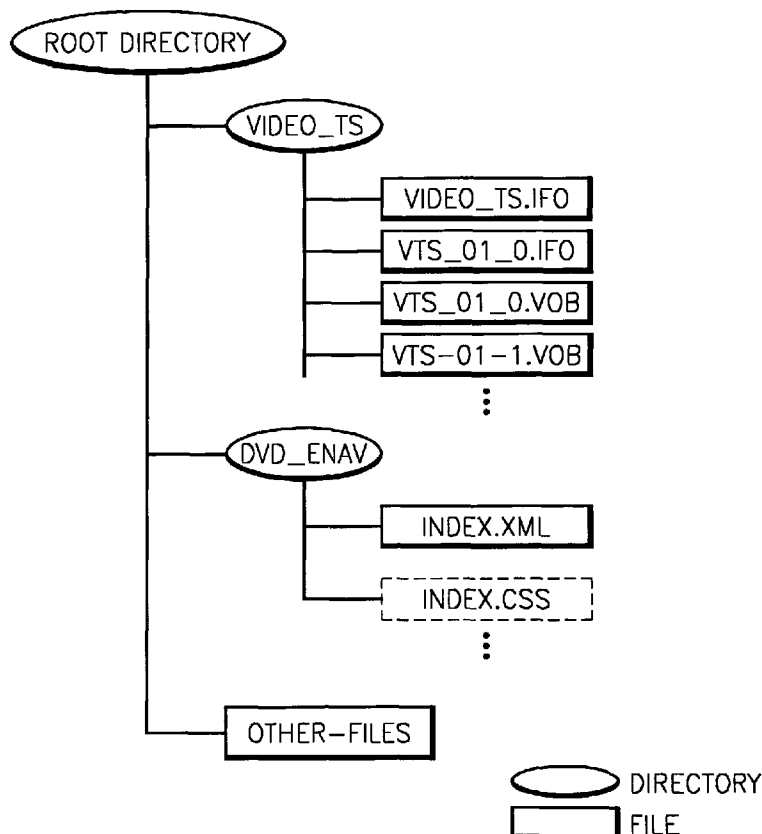
(74) Agent: **LEE, Young-Pil**; The Cheonghwa Building,
1571-18, Seocho-dong, Seocho-gu, Seoul 137-874 (KR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX,
MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG,
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: A METHOD TO DISPLAY A MARK-UP DOCUMENT ACCORDING TO A PARENTAL LEVEL, METHOD AND APPARATUS TO REPRODUCE THE MARK-UP DOCUMENT IN AN INTERACTIVE MODE, AND A DATA STORAGE MEDIUM THEREFOR



(57) Abstract: Provided are a method to display a mark-up document according to a parental level, a method and an apparatus for reproducing AV data in an interactive mode, and a data storage medium. The data storage medium includes the AV data, and mark-up documents to reproduce the AV data in an interactive mode. Here, among the mark-up documents, a start-up document contains information on the mark-up documents to be displayed according to a set parental level.



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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.

Published:

— *with international search report*