Title (en)
SECURITY ENHANCEMENTS OF DIGITAL WATERMARKS FOR MULTI-MEDIA CONTENT

Title (de)
SICHERHEITSVERBESSERUNGEN DIGITALER WASSERZEICHEN FÜR MULTIMEDIAINHALT

Title (fr)
AMELIORATIONS EN TERME DE SECURITE APPORTEES A DES FILIGRANES NUMERIQUES POUR CONTENU MULTIMEDIA

Publication
EP 1880344 A2 20080123 (EN)

Application
EP 06758537 A 20060421

Priority
- US 2006015410 W 20060421
- US 11599005 A 20050426
- US 11613705 A 20050426

Abstract (en)
[origin: WO2006116270A2] Methods and apparatus for embedding digital watermarks into a digital host content are provided. A digital host content is received, e.g., at a receiver or other device incorporating a receiver. One or more watermark embedding technologies is selected. Multiple embedding opportunities are identified within the host content. A subset of the identified embedding opportunities is selected. A multiplicity of digital watermarks are then embedded into the host content in accordance with the selected subset of embedding opportunities utilizing the one or more selected watermark embedding technologies. The selecting of the subset of embedding opportunities may be adapted to provide a desired tradeoff between levels of robustness, security, and transparency of the watermark. A plurality of watermarking embedding technologies may be selected and used in the embedding step.

IPC 8 full level
G06K 9/00 (2006.01); **G06K 9/36** (2006.01); **G09C 5/00** (2006.01); **G10L 19/00** (2006.01); **G10L 19/018** (2013.01); **H04K 1/00** (2006.01); **H04L 9/00** (2006.01); G06T 1/00 (2006.01); H04L 9/08 (2006.01); H04N 1/32 (2006.01)

CPC (source: EP)
G06T 1/0071 (2013.01); **G10L 19/018** (2013.01); **H04L 9/002** (2013.01); **H04L 9/088** (2013.01); **H04N 1/32149** (2013.01); **H04N 1/32299** (2013.01); **H04N 1/32304** (2013.01); G06T 2201/0065 (2013.01); H04L 2209/608 (2013.01); H04N 2201/3239 (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
WO 2006116270 A2 20061102; **WO 2006116270 A3 20080731**; CA 2605641 A1 20061102; EP 1880344 A2 20080123; EP 1880344 A4 20121205; JP 2008539669 A 20081113; JP 2011229156 A 20111110; JP 2013138498 A 20130711; JP 5165555 B2 20130321; JP 5283732 B2 20130904; JP 5596193 B2 20140924

DOCDB simple family (application)
US 2006015410 W 20060421; CA 2605641 A 20060421; EP 06758537 A 20060421; JP 2008508985 A 20060421; JP 2011114666 A 20110523; JP 2013036990 A 20130227