

Title (en)
WATERMARK EXTRACTION BASED ON TENTATIVE WATERMARKS

Title (de)
WASSERZEICHENEXTRAKTION AUF BASIS VORLÄUFIGER WASSERZEICHEN

Title (fr)
EXTRACTION DE FILIGRANE BASÉE SUR DES FILIGRANES PROVISOIRES

Publication
EP 2774385 A4 20150527 (EN)

Application
EP 12846172 A 20121102

Priority

- US 201113288958 A 20111103
- US 201113288937 A 20111103
- US 201113288945 A 20111103
- US 201113288952 A 20111103
- US 2012063431 W 20121102

Abstract (en)
[origin: WO2013067439A1] Methods, devices and computer program products facilitate the extraction of embedded watermarks in the presence of content distortions. Pre-distorted synchronization templates are used to detect synchronization portions of embedded watermark frames. A pre-distorted synchronization template that best matches the synchronization portion of the embedded watermark frame produces an estimation of one or more distortions that are present in the content. The remainder of watermark frame can be evaluated based on the outcome of the comparison.

IPC 8 full level
G06T 1/00 (2006.01); **G10L 19/018** (2013.01); **H04N 1/32** (2006.01); **H04N 21/8358** (2011.01)

CPC (source: EP)
G06T 1/005 (2013.01); **G10L 19/018** (2013.01); **H04N 1/32352** (2013.01); **H04N 21/8358** (2013.01); **G06T 2201/0065** (2013.01)

Citation (search report)

- [I] WO 2010135687 A1 20101125 - DIGIMARC CORP [US], et al
- [A] WO 2009031082 A1 20090312 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] US 2006002583 A1 20060105 - REED ALASTAIR M [US], et al
- [A] MILLER M L ET AL: "Informed embedding: exploiting image and detector information during watermark insertion", IMAGE PROCESSING, 2000. PROCEEDINGS. 2000 INTERNATIONAL CONFERENCE ON SEPTEMBER 10-13, 2000, IEEE, PISCATAWAY, NJ, USA, vol. 3, 10 September 2000 (2000-09-10), pages 1 - 4, XP010529388, ISBN: 978-0-7803-6297-0, DOI: 10.1109/ICIP.2000.899260
- [A] BAUDY S ET AL: "Estimation of geometric distortions in digital watermarking", INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP), IEEE, vol. 2, 22 September 2002 (2002-09-22), pages 885 - 888, XP010608114, ISBN: 978-0-7803-7622-9
- See references of WO 2013067439A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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DOCDB simple family (application)
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