

Title (en)
METHOD AND ARRANGEMENT FOR ENCODING TRANSFORMATION COEFFICIENTS IN IMAGE AND/OR VIDEO ENCODERS AND DECODERS, CORRESPONDING COMPUTER PROGRAM, AND CORRESPONDING COMPUTER-READABLE STORAGE MEDIUM

Title (de)
KODIERUNG VON TRANSFORMATIONS-KOEFFIZIENTEN IN BILD- ODER VIDEOKODIERERN

Title (fr)
PROCEDE ET ENSEMBLE POUR CODER DES COEFFICIENTS DE TRANSFORMATION DANS DES CODEURS D'IMAGE ET/OU VIDEO ET DES DECODEURS D'IMAGE ET/OU VIDEO, PROGRAMME INFORMATIQUE CORRESPONDANT ET SUPPORT DE MEMORISATION CORRESPONDANT LISIBLE SUR ORDINATEUR

Publication
EP 1500281 A2 20050126 (DE)

Application
EP 03725142 A 20030502

Priority
• DE 10220961 A 20020502
• EP 0304656 W 20030502

Abstract (en)
[origin: WO03094529A2] The invention relates to a method and an arrangement for encoding transformation coefficients in image and/or video encoders and decoders, a corresponding computer program, and a corresponding computer-readable storage medium, which can be used particularly as a novel efficient method for the binary arithmetic encoding of transformation coefficients in the field of video encoding. According to the inventive method, the transformation coefficients contained in blocks of (video) images are encoded in such a way that the positions of significant transformation coefficients contained in a block are determined and encoded for each block in a first scanning process, followed by a second scanning process which is carried out in reverse order, beginning with the last significant transformation coefficient within the block, and in which the levels of the significant transformation coefficients are determined and encoded.

IPC 1-7
H04N 7/50; **G06T 9/00**; **H03M 7/40**

IPC 8 full level
H04N 19/13 (2014.01); **G06T 9/00** (2006.01); **H03M 7/40** (2006.01); **H04N 1/41** (2006.01); **H04N 1/413** (2006.01); **H04N 19/129** (2014.01)

CPC (source: EP KR US)
H03M 7/4006 (2013.01 - EP US); **H04N 19/129** (2014.11 - KR); **H04N 19/13** (2014.11 - EP KR US); **H04N 19/136** (2014.11 - EP US); **H04N 19/176** (2014.11 - US); **H04N 19/18** (2014.11 - EP US); **H04N 19/60** (2014.11 - EP US); **H04N 19/91** (2014.11 - EP US); **H04N 19/93** (2014.11 - EP US)

Citation (search report)
See references of WO 03094529A2

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

DOCDB simple family (publication)
WO 03094529 A2 20031113; **WO 03094529 A3 20040408**; AT E343302 T1 20061115; AT E352826 T1 20070215; DE 50305419 D1 20061130; DE 50306371 D1 20070315; DK 1467491 T3 20070319; DK 1487113 T3 20061120; EP 1467491 A2 20041013; EP 1467491 A3 20050302; EP 1467491 B1 20070124; EP 1487113 A2 20041215; EP 1487113 A3 20050316; EP 1487113 B1 20061018; EP 1500281 A2 20050126; ES 2270246 T3 20070401; ES 2277174 T3 20070701; HK 1070480 A1 20050617; HK 1070992 A1 20050630; JP 2005229632 A 20050825; JP 2005237004 A 20050902; JP 2005530375 A 20051006; JP 2009165144 A 20090723; JP 4057595 B2 20080305; JP 4295356 B1 20090715; JP 4313757 B2 20090812; JP 4313771 B2 20090812; KR 100729270 B1 20070615; KR 20040106351 A 20041217; PT 1467491 E 20070330; PT 1487113 E 20061229; US 2004114683 A1 20040617; US 2005117652 A1 20050602; US 2009201986 A1 20090813; US 2009201994 A1 20090813; US 2009201995 A1 20090813; US 2009201996 A1 20090813; US 2016277742 A1 20160922; US 2016277763 A1 20160922; US 2016277764 A1 20160922; US 2016277765 A1 20160922; US 7496143 B2 20090224; US 7702013 B2 20100420; US 9362949 B2 20160607; US 9450608 B2 20160920; US 9490837 B2 20161108; US 9490838 B2 20161108; US 9698820 B2 20170704; US 9698821 B2 20170704; US 9698822 B2 20170704; US 9698823 B2 20170704

DOCDB simple family (application)
EP 0304656 W 20030502; AT 04016773 T 20030502; AT 04020471 T 20030502; DE 50305419 T 20030502; DE 50306371 T 20030502; DK 04016773 T 20030502; DK 04020471 T 20030502; EP 03725142 A 20030502; EP 04016773 A 20030502; EP 04020471 A 20030502; ES 04016773 T 20030502; ES 04020471 T 20030502; HK 05102956 A 20050408; HK 05103550 A 20050426; JP 2004502634 A 20030502; JP 2005040947 A 20050217; JP 2005055315 A 20050301; JP 2009037764 A 20090220; KR 20047016611 A 20030502; PT 04016773 T 20030502; PT 04020471 T 20030502; US 201615169062 A 20160531; US 201615169071 A 20160531; US 201615169081 A 20160531; US 201615169087 A 20160531; US 2298504 A 20041227; US 42813909 A 20090422; US 42815109 A 20090422; US 42815409 A 20090422; US 42815709 A 20090422; US 72780203 A 20031204