

Diego Gonzalez

Search history

Search STAC=(video and bitstream and cabac and syntax and palette and delta and chroma) (Results 1)

1:

2: [SP]: 1. a method of decoding video data, the method comprising: decoding, from a coded video bitstream, a syntax element that indicates whether a transpose process is applied to palette indices of a palette for a current block of video data; decoding, from the coded video bitstream and at a position in the coded video bitstream that is after the syntax element that indicates whether the transpose process is applied to palette indices of the palette for the current block of video data, one or more syntax elements related to delta quantization parameter (qp) and/or chroma qp offsets for the current block of video data; and decoding the current block of video data based on the palette for the current block of video data and the one or more syntax elements related to delta qp and/or chroma qp offsets for the current block of video data. 2. the method of claim 1, wherein: decoding the syntax element that indicates whether the transpose process is applied to palette indices of the current block of video data comprises decoding the syntax element that indicates whether the transpose process is applied to palette indices of the current block of video data using context adaptive binary arithmetic coding (cabac) with a context, and decoding the one or more syntax elements related to delta qp and/or chroma qp offsets comprises decoding the one or more syntax elements related to delta qp and/or chroma qp offsets using cabac with a context. 3. the method of claim 1 wherein the syntax element that indicates whether the transpose process is applied to palette indices of the current block of video data comprises a palette_transpose_flag syntax element. 4. the method of claim 1, wherein the one or more syntax elements related to delta qp comprise one or both of a syntax element that indicates an absolute value of a difference between a qp of the current block and a predictor of the qp of the current block and a syntax element that indicates a sign of the difference between the qp of the current block and the predictor of the qp of the current block. 5. the method of claim 1, wherein the one or more syntax elements related to chroma qp offsets comprise one or both of a syntax element that indicates whether entries in one or more offset lists are added to a luma qp of the current block to determine chroma qps for the current block and a syntax element that indicates an index of an entry in each of the one or more offset lists that are added to the luma qp for the current block to determine the chroma qps for the current block. 6. the method of claim 1, further comprising: decoding, from the coded video bitstream, a group of syntax elements using bypass mode, wherein the group comprises one or more of: one or more syntax elements that indicate a number of zeros that precede a non-zero entry in an array that indicates whether entries from a predictor palette are reused in the current palette, a syntax element that indicates a number of entries in the current palette that are explicitly signalled, one or more syntax elements that each indicate a value of a component in an entry in the current palette, a syntax element that indicates whether the current block of video data includes at least one escape coded sample, a syntax element that indicates a number of indices in the current palette that are explicitly signalled or inferred, and one or more syntax elements that indicate indices in an array of current palette entries. 7. the method of claim 6, wherein one or more of: the one or more syntax elements that indicate a number of zeros that precede a non-zero entry in an array that indicates whether entries from a predictor palette are reused in the current palette comprise one or more palette_predictor_run syntax elements, the syntax element that indicates a number of entries in the current palette that are explicitly signalled comprises a num_signalled_palette_entries syntax element, the one or more syntax elements that each indicate a value of a component in an entry in the current palette comprise one or more palette_entry syntax elements, the syntax element that indicates whether the current block of video data includes at least one escape coded sample comprises palette_escape_val_present_flag, the syntax element that indicates a number of indices in the current palette that are explicitly signalled or inferred comprise a num_palette_indices_idc syntax element, and the one or more syntax elements that indicate indices in an array of current palette entries comprise one or more palette_index_idc syntax elements. 8. the method of claim 6, wherein decoding the group of syntax elements comprises decoding the group of syntax elements from the coded video bitstream at a position in the coded video bitstream that is before the syntax element that indicates whether the transpose process is applied to palette indices of the current block of video data. 9. the method of claim 6, further comprising: decoding, from the coded video bitstream after the group of syntax elements coded using bypass mode, a syntax element that indicates a last occurrence of a run type flag within the current block of video data. 10. the method of claim 9, wherein decoding the syntax element that indicates the last occurrence of a run type flag within the current block of video data comprises decoding the syntax element that indicates the last occurrence of a run type flag within the current block of video data using context adaptive binary arithmetic coding (cabac) with a context. 11. a method of encoding video data, the method comprising: encoding, in a coded video bitstream, a syntax element that indicates whether a transpose process is applied to palette indices of a palette for a current block of video data; encoding, in the coded video bitstream and at a position in the coded video bitstream that is after the syntax element that indicates whether the transpose process is applied to palette indices of the palette for the current block of video data, one or more syntax elements related to delta quantization parameter (qp) and/or chroma qp offsets for the current block of video data; and encoding the current block of video data based on the palette for the current block of video data and the one or more syntax elements related to delta qp and/or chroma qp offsets for the current block of video data. 12. the method of claim 11, wherein: encoding the syntax element that indicates whether the transpose process is applied to palette indices of the current block of video data comprises encoding the syntax element that indicates whether the transpose process is applied to palette indices of the current block of video data using context adaptive binary arithmetic coding (cabac) with a context, and encoding the one or more syntax elements related to delta qp and/or chroma qp offsets comprises encoding the one or more syntax elements related to delta qp and/or chroma qp offsets using cabac with a context. 13. the method of claim 11 wherein the syntax element that indicates whether the transpose process is applied to palette indices of the current block of video data comprises a palette_transpose_flag syntax element. 14. the method of claim 11, wherein the one or more syntax elements related to delta qp comprise one or both of a syntax element that indicates an absolute value of a difference between a qp of the current block and a predictor of the qp of the current block and a syntax element that indicates a sign of the difference between the qp of the current block and the predictor of the qp of the current block. 15. the method of claim 11, wherein the one or more syntax elements related to chroma qp offsets comprise one or both of a syntax element that indicates whether entries in one or more offset lists are added to a luma qp of the current block to determine chroma qps for the current block and a syntax element that indicates an index of an entry in each of the one or more offset lists that are added to the luma qp for the current block to determine the chroma qps for the current block. 16. the method of claim 11, further comprising: encoding, in the coded video bitstream, a group of syntax elements using bypass mode, wherein the group comprises one or more of: one or more syntax elements that indicate a number of zeros that precede a non-zero entry in an array that indicates whether entries from a predictor palette are reused in the current palette, a syntax element that indicates a number of entries in the current palette that are explicitly signalled, one or more syntax elements that each indicate a value of a component in an entry in the current palette, a syntax element that indicates whether the current block of video data includes at least one escape coded sample, a syntax element that indicates a number of indices in the current palette that are explicitly signalled or inferred, and one or more syntax elements that indicate indices in an array of current palette entries. 17. the method of claim 16, wherein one or more of: the one or more syntax elements that indicate a number of zeros that precede a non-zero entry in an array that indicates whether entries from a predictor palette are reused in the current palette comprise one or more palette_predictor_run syntax elements, the syntax element that indi

Search STAC=(video and bitstream and cabac and syntax and palette) (Results 5)

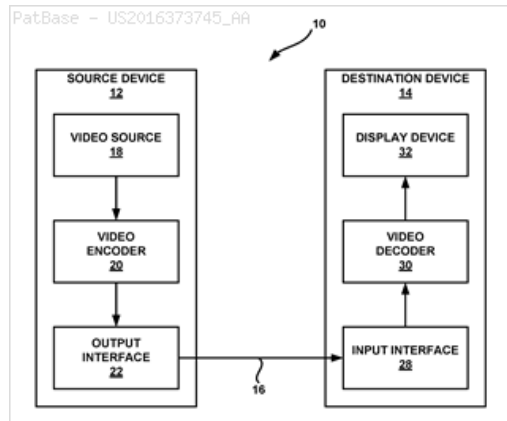
3:

Title: GROUPING **PALETTE** BYPASS BINS FOR **VIDEO** CODING

Abstract: An example method of coding **video** data includes coding, from a coded **video bitstream**, a **syntax** element that indicates whether a transpose process is applied to **palette** indices of a **palette** for a current block of **video** data; decoding, from the coded **video bitstream** and at a position in the coded **video bitstream** that is after the **syntax** element that indicates whether the transpose process is applied to **palette** indices of the **palette** for the current block of **video** data, one or more **syntax** elements related to delta quantization parameter (QP) and/or chroma QP offsets for the current block of **video** data; and decoding the current block of **video** data based on the **palette** for the current block of **video** data and the one or more **syntax** elements related to delta QP and/or chroma QP offsets for the current block of **video** data.

Classifications:

International (IPC 8-9): H04N H04N11/00 H04N19/119 H04N19/124 H04N19/13 H04N19/159 H04N19/176 H04N19/18 H04N19/184 H04N19/186 H04N19/61 H04N19/70 H04N19/91 H04N19/93 H04N19/94 (Advanced/Invention); H04N (Subclass/Invention)
CPC: H04N19/119 H04N19/184 H04N19/13 H04N19/159 H04N19/176 H04N19/186 H04N19/91 H04N19/70 H04N19/124 H04N19/61 H04N19/93
US: 375/240.13



Family:

Publication number	Publication date	Application number	Application date
AR104977 AA	20170830	AR2016P101748	20160610
AU2016276687 AA	20161215	AU20160276687	20160609
BR112017026591 A2	20180814	BR20171126591	20160609
CA2985484 AA	20171108	CA20162985484	20160609
CL2017003125 A1	20180518	CL20170003125	20171206
CN107710765 A	20180216	CN201680033638	20160609
CO20170012619 A2	20180105	CO20170012619	20171207
EP3308542 A1	20180418	EP20160730666	20160609
HK1245544 A1	20180824	HK20180104242	20180328
ID201807020 A	20180720	ID2018P0000050	20160609
IL255439 A0	20171231	IL20160255439	20160609
IN201747039816 A	20171117	IN201747039816	20171108
JP2018524873 T2	20180830	JP20170563540T	20160609
KR20180018532 A	20180221	KR20177035311	20160609
MX2017016049 A1	20180221	MX20170016049	20160609
PH2017502250 A	20180611	PH20170502250	20171211
TW201703525 A	20170116	TW20160118449	20160613
US2016373745 AA	20161222	US20160177201	20160608
WO16201032 A1	20161215	WO2016US36572	20160609

Priority:

US20150175137P 20150612 US20160177201 20160608 WO2016US36572 20160609

Probable Assignee: QUALCOMM INC

Assignee(s): (std): QUALCOMM INC

Assignee(s): SEREGIN VADIM ; ZOU FENG ; JOSHI RAJAN LAXMAN ; KARCZEWICZ MARTA ; PU WEI

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Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; JOSE ANDRES RINCON USCATEGUI; HOWE STEVEN; LI WING HONG; LUDIYANTO SH MH MM; ROSENBERG BRIAN M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **PALETTE** INDEX GROUPING FOR **VIDEO** CODING

Abstract: In an example, a method of decoding **video** data may include receiving a **palette** mode encoded block of **video** data of a picture. The method may include receiving encoded **palette** mode information for the **palette** mode encoded block of **video** data. The encoded **palette** mode information may include a plurality of instances of a first **syntax** element and a plurality of **syntax** elements that are different from the first **syntax** element. The method may include decoding, using bypass mode, the plurality of instances of the first **syntax** element before decoding the plurality of **syntax** elements that are different from the first **syntax** element using context mode. The method may include decoding, using context mode, the plurality of **syntax** elements that are different from the first **syntax** element after decoding the plurality of instances of the first **syntax** element using bypass mode.

Classifications:

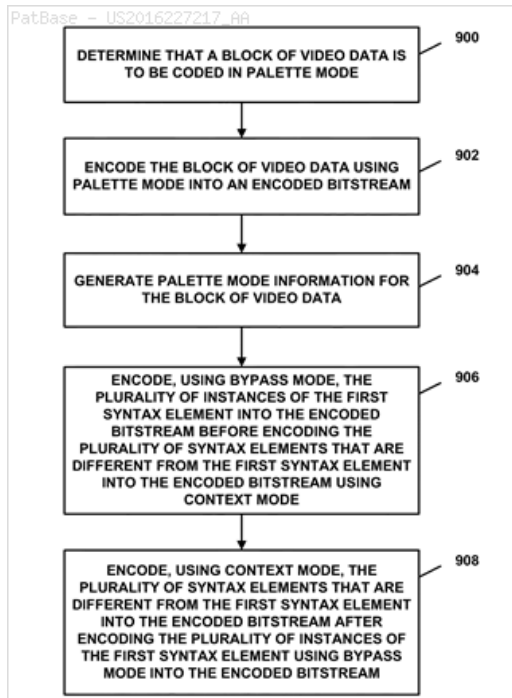
International (IPC 8-9): H04N H04N19/105 H04N19/117 H04N19/124 H04N19/13 H04N19/136 H04N19/14 H04N19/176 H04N19/186 H04N19/33 H04N19/42 H04N19/44 H04N19/463 H04N19/52 H04N19/593 H04N19/70 H04N19/91 H04N19/93

H04N19/94 (Advanced/Invention);
H04N19/93 (Advanced/Non-invention);
H04N19/13 (Core/Invention);

H04N (Subclass/Invention)

CPC: H04N19/176 H04N19/186 H04N19/44 H04N19/136 H04N19/124 H04N19/117 H04N19/105 H04N19/52 H04N19/13 H04N19/593 H04N19/42 H04N19/463 H04N19/70 H04N19/93

US: 375/240.02



Family:

Publication number	Publication date	Application number	Application date
AU2016211327 AA	20160804	AU20160211327	20160129
BR112017016371 A2	20180327	BR20171116371	20160129
CA2972617 AA	20170628	CA20162972617	20160129
CL2017001892 A1	20180223	CL20170001892	20170724
CN107211138 A	20170926	CN201680006977	20160129
CO20170007499 A2	20171010	CO20170007499	20170727
EA201791503 A1	20180131	EA20170091503	20160129
EP3251367 A1	20171206	EP20160704993	20160129
HK1237171 A1	20180406	HK20170111042	20171030
ID201804225 A	20180420	ID2017P0005212	20160129
IL253009 A0	20170831	IL20160253009	20160129
IN201727021932 A	20170818	IN201727021932	20170622
JP2018507615 T2	20180315	JP20170539408T	20160129
KR20170110084 A	20171010	KR20177020755	20160129
MX2017009735 A1	20171117	MX20170009735	20160129
PH2017501183 A	20171218	PH20170501183	20170622
SG11201704982T A1	20170830	SG20171104982	20160129
TH177467 A	20180705	TH20171004228	20160129
TW201644273 A	20161216	TW20160102961	20160129
US2016227217 AA	20160804	US20160009477	20160128
US9942551 BB	20180410	US20160009477	20160128
WO16123488 A1	20160804	WO2016US15663	20160129

Priority:

US20150110302P 20150130 US20160009477 20160128 WO2016US15663 20160129

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Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; JOSE ANDRES RINCON USCATEGUI; LOVELESS IAN MARK; LI WING HONG; LUDIYANTO SH MH MM; MCADAMS PAUL M

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **PALETTE** RUN HIDING IN **PALETTE**-BASED **VIDEO** CODING

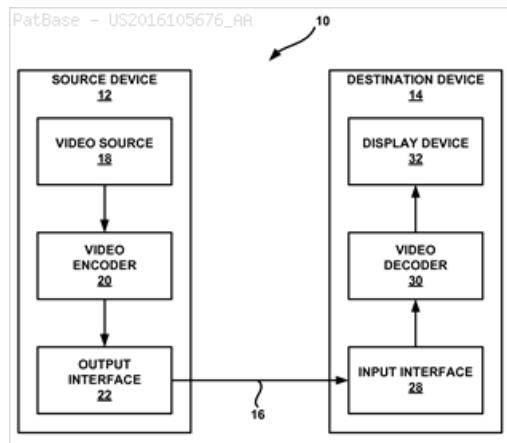
Abstract: A **video** decoder may obtain a **syntax** element from a **bitstream** comprising an encoded representation of a block of **video** data. The block comprises a series of runs, each of which may consist of one pixel or two or more consecutive pixels. Furthermore, the **video** decoder may obtain a set of **palette** run length **syntax** elements indicating lengths of one or more of the runs. The **video** decoder may determine, based on the **syntax** element, that the **palette** run length **syntax** elements do not include a **palette** run length **syntax** element indicating a length of the first run. Rather, the **video** decoder determines, based on the lengths indicated by the set of **palette** run **syntax** elements, the length of the first run. The **video** decoder may determine, based on the **palette** sample modes of the pixels, **palette** indices of the pixels, each indicating an entry in a **palette**.

Classifications:

International (IPC 8-9): H04N19/13 H04N19/176 H04N19/186
H04N19/44 H04N19/46 H04N19/463 H04N19/48 H04N19/50
H04N19/503 H04N19/593 H04N19/70 H04N19/90 H04N19/93
H04N19/94 (Advanced/Invention)

CPC: H04N19/13 H04N19/90 H04N19/44 H04N19/176 H04N19/93
H04N19/186 H04N19/46 H04N19/48 H04N19/50 H04N19/503
H04N19/593 H04N19/70

US: 375/240.24 375/E7.144 382/166 382/168 382/233



Family:

Publication number	Publication date	Application number	Application date
■ CN106797474 A	20170531	CN201580054551	20151009
■ EP3205102 A1	20170816	EP20150787085	20151009
■ IN201747007726 A	20170602	IN201747007726	20170306
■ JP2017535166 T2	20171124	JP20170518311T	20151009
■ US2016105676 AA	20160414	US20150878697	20151008
■ US10097837 BB	20181009	US20150878697	20151008
■ WO16057929 A1	20160414	WO2015US54956	20151009

Priority:

US20140062627P 20141010 US20150165064P 20150521 US20150878697 20151008
WO2015US54956 20151009

Probable Assignee: QUALCOMM INC

Assignee(s): (std): QUALCOMM INC

Inventor(s): (std): JOSHI RAJAN LAXMAN ; KARCZEWICZ MARTA ; PU WEI ; SEREGIN VADIM ; ZOU FENG

Agent(s): HOHGARDT MARTIN; SHUMAKER AND SIEFFER PA; VREDEVELD ALBERT W

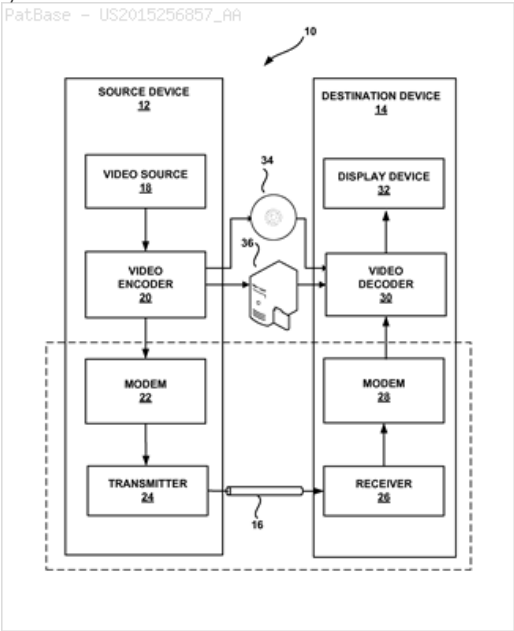
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID
IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN
MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG
SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: FLICKER DETECTION AND MITIGATION IN VIDEO CODING

Abstract: A device configured to code video data includes: a memory configured to store video data, and at least one processor. The at least one processor is configured to: code information indicating whether a block from a current picture will flicker. A determination of whether the block from the current picture will flicker is based on the block in the current picture in a display order and a collocated block from a next picture in the display order.

Classifications:

International (IPC 8-9): H04N19/105 H04N19/11 H04N19/119
H04N19/13 H04N19/14 H04N19/154 H04N19/172 H04N19/176
H04N19/27 H04N19/463 H04N19/70 H04N19/86 (Advanced/Invention);
H04N19/27 (Advanced/Non-invention)
CPC: H04N19/86 H04N19/13 H04N19/172 H04N19/463 H04N19/14
H04N19/154 H04N19/119 H04N19/11 H04N19/176 H04N19/27
US: 375/240.02



Family:

Publication number	Publication date	Application number	Application date
CN106031173 A	20161012	CN201580009982	20150305
EP3114837 A1	20170111	EP20150711366	20150305
IN201627025090 A	20160826	IN201627025090	20160722
JP2017512025 T2	20170427	JP20160554860T	20150305
KR20160129026 A	20161108	KR20167026653	20150305
US2015256857 AA	20150910	US20150638965	20150304
US10009632 BB	20180626	US20150638965	20150304
WO15134748 A1	20150911	WO2015US18966	20150305

Priority:

US20140948469P 20140305 US20150638965 20150304 WO2015US18966 20150305

Probable Assignee: QUALCOMM INC

Assignee(s): (std): QUALCOMM INC

Inventor(s): (std): JOSHI RAJAN LAXMAN ; KARCZEWICZ MARTA ; LI XIANG ; RAPAKA KRISHNAKANTH

Agent(s): LOVELESS IAN MARK; SHUMAKER AND SIEFFERT PA; CREERON KERRY T

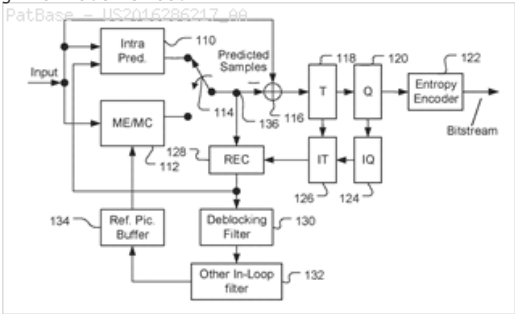
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD OF RUN-LENGTH CODING FOR **PALETTE** PREDICTOR

Abstract: Methods and apparatus of **palette** coding based on a **palette** predictor in a **video** coding system are disclosed. A set of run lengths associated with re-use flags of a current **palette** with respect to a **palette** predictor is determined and the set of run lengths includes an Escape code to indicate an end of run length coding for the re-use flags of the current **palette**. A set of code values is determined for the set of run lengths by adaptively assigning an Escape code value to the Escape code depending on a current index of predictor run length coding. The set of run lengths is then encoded or decoded according to the set of code values. According to another method, a context model is determined for at least a portion of the binary string depending on current coding information, previous coding information or both.

Classifications:

International (IPC 8-9): H03M7/40 H04N19/119 H04N19/13 H04N19/136 H04N19/176 H04N19/186 H04N19/44 H04N19/50 H04N19/51 H04N19/60 H04N19/70 H04N19/91 H04N19/93 H04N19/94 (Advanced/Invention)
CPC: H04N19/91 H04N19/51 H04N19/176 H04N19/124 H04N19/119 H04N19/186 H04N19/44 H04N19/50 H04N19/60 H04N19/93 H04N19/96 H04N19/13 H04N19/70
US: 375/240.12



Family:

Publication number	Publication date	Application number	Application date
CA2950818 AA	20161130	CA20152950818	20150618
CN106416246 A	20170215	CN201580032424	20150618
EP3138288 A1	20170308	EP20150809839	20150618
EP3138288 A4	20180328	EP20150809839	20150618
JP2017525220 T2	20170831	JP20160573768T	20150618
JP2018170771 A2	20181101	JP20180108394	20180606
JP6352452 B2	20180704	JP20160573768T	20150618
KR101887798 B1	20180810	KR20167035475	20150618
KR20170008288 A	20170123	KR20167035475	20150618
KR20180021229 A	20180228	KR20187004798	20150618
US2016286217 AA	20160929	US20160175444	20160607
US2018205951 AA	20180719	US20150314645	20150618
WO15192779 A1	20151223	WO2015CN081751	20150618

Priority:

US20140014970P 20140620	US20140017401P 20140626	US20140020518P 20140703
US20140021287P 20140707	US20150173035P 20150609	JP20160573768T 20150618
WO2015CN81751 20150618	WO2015CN081751 20150618	US20150314645 20150618
US20160175444 20160607		

Probable Assignee: HFI INNOVATION INC

Assignee(s): (std): HFI INNOVATION INC ; MEDIATEK INC

Assignee(s): CHUANG TZU DER ; HSIANG SHIH TA

Inventor(s): (std): HSIANG SHIH TA ; CHUANG TZU DER

Agent(s): SMART AND BIGGAR; HABERMANN HRUSCHKA AND SCHNABEL; BEIJING SANYOU INTELLECTUAL PROPERTY AGENCY LTD

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW