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■ **ISO/IEC Deliverable (*)** (for ISO/IEC Deliverables, please return the form to both ISO and IEC)

(*)Number **ISO/IEC FDIS 23090-3-202x**

(*)Title **Information technology — Coded representation of immersive media — Part 3: Versatile video coding (3rd edition)**

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Patent Information (desired but not required for options 1 and 2; required in ITU, ISO and IEC for option 3 (NOTE))

SEE ATTACHED PAGES

No.	Status [granted/ pending]	Country	Granted Patent Number or Application Number (if pending)	Title
1				
2				
3				
4				
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10				

☐ Check here if additional patent information is provided on additional pages.

NOTE: For option 3, the additional minimum information that shall also be provided is listed in the option 3 box above.

Signature (include on final page only):

Patent Holder	**Apple Inc.**
Name of authorized person	**Jeffrey L. Myers**
Title of authorized person	**Chief IP Counsel**
Signature	
Place, Date	**Cupertino, CA – June 18, 2024**

FORM version: 2 November 2018

Attachment to
PATENT STATEMENT AND LICENSING DECLARATION of APPLE INC.
Information technology — Coded representation of immersive media — Part 3: Versatile video coding (3rd edition)

Apple submits this Attachment to its Patent Statement and Licensing Declaration for ISO/IEC FDIS 23090-3-202x Information technology — Coded representation of immersive media — Part 3: Versatile video coding (3rd edition) dated June 18, 2024.

Patent Information

Although it is not required to do so, to help promote transparency in the declaration process, Apple is providing the following detailed patent information.

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
1	Granted	US	7769084B2	Method for Implementing a Quantizer in a Multimedia Compression and Encoding System	3.15, 3.27, 3.29, 3.44, 3.135, 6.3.1, 6.3.3, 7.3.7, 7.4.8, 8.7.1, 8.7.3
2	Granted	US	7292636B2	Method and Apparatus for Variable Accuracy Inter-Picture Timing Specification for Digital Video Encoding	3.15, 8.3.1, 8.5.2
3	Granted	US	7339991B2	Method and Apparatus for Variable Accuracy Inter-Picture Timing Specification for Digital Video Encoding	3.15, 3.29, 8.3.1, 8.5.2
4	Granted	AU	2017265177B2	Adaptive Color Space Transform Coding	8.7.4.6
5	Granted	AU	2019253875B2	Adaptive Color Space Transform Coding	8.7.4.6
6	Granted	CN	105308960B	Adaptive Color Space Transform Coding	8.7.4.6
7	Granted	CN	110460850B	Adaptive Color Space Transform Coding	8.7.4.6
8	Granted	CN	110460848B	Adaptive Color Space Transform Coding	8.7.4.6
9	Granted	JP	6553220B2	Adaptive Color Space Transform Coding	8.7.4.6
10	Granted	JP	6768122B2	Adaptive Color Space Transform Coding	8.7.4.6
11	Granted	KR	10-1952293B1	Adaptive Color Space Transform Coding	8.7.4.6
12	Granted	KR	10-2103815B1	Adaptive Color Space Transform Coding	8.7.4.6

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
13	Granted	TW	I634782B	Adaptive Color Space Transform Coding	8.7.4.6
14	Granted	TW	I717621B	Adaptive Color Space Transform Coding	8.7.4.6
15	Granted	US	10602143B2	Adaptive Color Space Transform Coding	8.7.4.6, 8.7.5.3, 7.3.11.5, 7.4.11.5
16	Granted	AU	2014281169B2	Sample Adaptive Offset Precision Control	
17	Granted	AU	2018204551B2	Sample Adaptive Offset Precision Control	
18	Granted	US	10708588	Sample Adaptive Offset Precision Control	8.8.4, 7.3.11.3, 7.4.12.3, 8.8.1
19	Granted	KR	10-1752401B1	Sample Adaptive Offset Precision Control	
20	Granted	KR	10-2072855B1	Sample Adaptive Offset Precision Control	
21	Granted	TW	I558173B	Sample Adaptive Offset Precision Control	
22	Granted	TW	I645713B	Sample Adaptive Offset Precision Control	
23	Granted	US	10715833B2	Adaptive Syntax Grouping and Compression in Video Data Using a Default Value and an Exception Value	7.3.8.4
24	Granted	US	10349064B2	Adaptive Chroma Downsampling and Color Space Conversion Techniques	
25	Granted	BR	PI0312659B1	Method and Apparatus for Variable Accuracy Inter-Picture Timing Specification for Digital Video Encoding	3.15, 8.3.1, 8.5.1, 8.5.2
26	Granted	BR	PI0318777B1	Method and Apparatus for Variable Accuracy Inter-Picture Timing Specification for Digital Video Encoding	3.15, 8.3.1, 8.5.1, 8.5.2
27	Granted	BR	122017003527B1	Method and apparatus for variable accuracy inter-picture timing specification for digital video encoding	3.15, 3.87, 3.113, 6.3.1, 7.3.2.3, 7.3.5.1, 7.4.3.2, 7.4.3.3, 7.4.6.1, 8.1.1, 8.3.1
28	Granted	BR	122017003532B1	Method and apparatus for variable accuracy inter-picture timing specification for digital video encoding	3.15, 3.87, 3.113, 7.3.2.3, 7.3.5.1, 7.4.2.1, 7.4.3.2, 7.4.3.3, 7.4.6.1, 8.3.1
29	Granted	AU	2020201584B2	Sample Adaptive Offset Precision Control	
30	Granted	AU	2017202576B2	Sample Adaptive Offset Precision Control	

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
31	Granted	AU	2020201212B2	Adaptive Color Space Transform Coding	8.7.4.6
32	Granted	AU	2020201214B2	Adaptive Color Space Transform Coding	8.7.4.6
33	Granted	CN	110460849B	Adaptive Color Space Transform Coding	8.7.4.6
34	Granted	CN	110460847B	Adaptive Color Space Transform Coding	8.7.4.6
35	Granted	KR	10-2232022B1	Adaptive Color Space Transform Coding	8.7.4.6
36	Granted	KR	10-2230008B1	Adaptive Color Space Transform Coding	8.7.4.6
37	Granted	US	11184613B2	Adaptive Color Space Transform Coding	8.7.4.6
38	Granted	US	11368689B2	Adaptive Color Space Transform Coding	8.7.4.6
39	Granted	US	11368688B2	Adaptive Color Space Transform Coding	8.7.4.6
40	Granted	BR	122017003549B1	Method and apparatus for variable accuracy inter-picture timing specification for digital video encoding	8.5.2.12
41	Granted	US	9510002B2	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.7, 7.4.12.10, 8, 8.7.1
42	Granted	US	9294766B2	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
43	Granted	US	10298929B2	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1
44	Granted	US	10250883B2	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1
45	Granted	US	10986341B2	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1
46	Granted	US	10904530B2	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
47	Granted	US	11659182B2	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1
48	Granted	CN	107846591B	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1
49	Granted	CN	107948651B	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1
50	Granted	IL	244101B	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
51	Granted	KR	102006885B1	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1
52	Granted	KR	102123094B1	Chroma Quantization in Video Coding	3, 6.3.1, 7, 7.3.1.1, 7.3.2.5, 7.3.2.14, 7.3.7, 7.3.11.1, 7.3.11.2, 7.3.11.4, 7.3.11.5, 7.3.11.10, 7.4.2.2, 7.4.3.5, 7.4.8, 7.4.12.10, 8, 8.7.1
53	Granted	US	10212429B2	Backward-compatible video capture and distribution	8.7.5.2
54	Granted	US	10986345B2	Backward-compatible video capture and distribution	8.7.5.2
55	Granted	CN	106233706B	Adaptive Transfer Function for Video Encoding and Decoding	8.7.5.3
56	Granted	CN	111246050B	Adaptive Transfer Function for Video Encoding and Decoding	8.7.5
57	Pending	DE	112015000950T5	Backward-compatible video capture and distribution	8.7.5.2
58	Granted	US	11445202B2	Adaptive Transfer Function for Video Encoding and Decoding	7.3.2.9, 7.4.3.18, 7.4.3.17, 8.8.2.2
59	Granted	AU	2020201023B2	Adaptive Transfer Function for Video Encoding and Decoding	7.3.2.9, 7.4.3.18, 7.4.3.17, 8.8.2.2
60	Pending	US	17/894,120	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	3.103, 6.5.1; 7.4.3.5
61	Granted	CN	CN113056912B	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
62	Pending	CN	202310127338.2	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	3.103, 6.5.1; 7.4.3.5
63	Pending	EP	2020874149	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
64	Granted	HK	40057597A1	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
65	Pending	IN	202117057329	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
66	Granted	JP	418560B2	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
67	Pending	JP	2024-001458	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	3.103, 6.5.1; 7.4.3.5
68	Pending	KR	10-2020-0130455	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
69	Granted	US	11431974B2	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
70	Pending	VN	1202108485	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
71	Granted	ZA	2021/10173B	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
72	Pending	US	18/210,998	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.5,7.4.12.5, 8.4.2
73	Pending	CN	201980031178.3	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.5,7.4.12.5, 8.4.2
74	Pending	IN	202117014592	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.5,7.4.12.5, 8.4.2

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
75	Pending	KR	10-2019-0154695	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.5,7.4.12.5, 8.4.2
76	Pending	MY	PI 2021002480	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.5,7.4.12.5, 8.4.2
77	Granted	US	11729376B2	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.5,7.4.12.5, 8.4.2
78	Pending	VN	1202101822	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.5,7.4.12.5, 8.4.2
79	Pending	US	17/957,994	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.8, 7.4.3.8, 8.5.6.1, 8.5.6.4
80	Granted	CN	112237003B	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.8, 7.4.3.8, 8.5.6.1, 8.5.6.4
81	Pending	IN	202117018682	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.8, 7.4.3.8, 8.5.6.1, 8.5.6.4
82	Granted	KR	102423809	Adaptive Color Space Transform Coding	8.7.4.6, 8.7.5.3, 7.3.11.5, 7.4.11.5
83	Pending	MY	PI 2021002502	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.8, 7.4.3.8, 8.5.6.1, 8.5.6.4
84	Granted	US	11463723B2	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.8, 7.4.3.8, 8.5.6.1, 8.5.6.4
85	Pending	VN	1202102355	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.8, 7.4.3.8, 8.5.6.1, 8.5.6.4
86	Granted	US	11012691B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
87	Granted	US	11601646B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5
88	Granted	US	11997272B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5
89	Pending	CN	202080003179.X	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5
90	Pending	EP	2020736045	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5
91	Pending	IN	202117018299	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5
92	Pending	IN	202218077154	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5
93	Granted	KR	10-2619997B1	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	6.5.1, 7.3.2.5
94	Pending	MY	PI 2021002505	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5
95	Pending	VN	1202102353	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5
96	Pending	US	18/122,683	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	8.5.2.1
97	Pending	CN	202080004277.5	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	8.5.2.1
98	Pending	IN	202117028498	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	8.5.2.1
99	Granted	KR	10-2597461B1	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	8.5.2.1

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
100	Pending	MY	PI 2021002517	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	8.5.2.1
101	Granted	US	11611742B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	8.5.2.1
102	Pending	VN	1202105162	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	8.5.2.1
103	Granted	US	11863745B2	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1
104	Pending	CN	202080004289.8	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1
105	Pending	IN	202117028500	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1
106	Granted	KR	102629602	Adaptive Color Space Transform Coding	8.7.4.6, 8.7.5.3, 7.3.11.5, 7.4.11.5
107	Pending	MY	PI 2021002497	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1
108	Granted	US	11570436B2	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1
109	Pending	VN	1202105161	VIDEO SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1
110	Granted	US	11025944B2	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.3.11.7, 7.4.12.7, 8.5.2.2, 8.5.2.6
111	Granted	US	11632562B2	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	8.5.2.1, 8.5.2.2, 8.5.2.6
112	Pending	US	18/135,106	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	8.5.2.1, 8.5.2.2, 8.5.2.6

No.	Status	Country	Patent, Application, or Publication Number	Title	Sections
113	Granted	CN	112425160B	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.3.11.7, 7.4.12.7, 8.5.2.2, 8.5.2.6
114	Pending	CN	202310512325.7	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	8.5.2.1, 8.5.2.2, 8.5.2.6
115	Pending	IN	202117039848	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.3.11.7, 7.4.12.7, 8.5.2.2, 8.5.2.6
116	Pending	IN	202318011746	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	8.5.2.1, 8.5.2.2, 8.5.2.6
117	Pending	IN	202318081525	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	8.5.2.1, 8.5.2.2, 8.5.2.6
118	Pending	IN	202318081529	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.2.4
119	Granted	KR	10-2597617B1	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.7, 7.4.12.7, 8.5.2.2, 8.5.2.6
120	Pending	KR	10-2023-0146943	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	8.5.2.1, 8.5.2.2, 8.5.2.6
121	Pending	VN	1202105976	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.3.11.7, 7.4.12.7, 8.5.2.2, 8.5.2.6
122	Granted	ZA	2021/04757B	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.3.11.7, 7.4.12.7, 8.5.2.2, 8.5.2.6
123	Granted	US	11716471B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
124	Pending	US	18/208,813	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
125	Pending	CN	202080004122.1	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5

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126	Pending	IN	202117040417	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
127	Pending	KR	10-2020-0023619	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
128	Pending	MX	2021010005	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
129	Pending	MY	PI 2021003399	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
130	Granted	US	11394971B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
131	Granted	US	11962763B2	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.4.3.4, 8.6.2.1, 8.6.2.4, 8.6.2.6
132	Pending	CN	202080004349.6	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.4.3.4, 8.6.2.1, 8.6.2.4, 8.6.2.6
133	Pending	IN	IN202117039784	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.4.3.4, 8.6.2.1, 8.6.2.4, 8.6.2.6
134	Granted	KR	10-2617439B1	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.4.3.4, 8.6.2.1, 8.6.2.4, 8.6.2.6
135	Pending	KR	10-2023-0186261	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.7
136	Granted	US	11632542B2	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.4.3.4, 8.6.2.1, 8.6.2.4, 8.6.2.6
137	Pending	VN	1202105977	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.4.3.4, 8.6.2.1, 8.6.2.4, 8.6.2.6
138	Granted	ZA	2021/04756B	METHOD FOR ENCODING/DECODING VIDEO SIGNAL, AND APPARATUS THEREFOR	7.4.3.4, 8.6.2.1, 8.6.2.4, 8.6.2.6

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139	Granted	US	11936895B2	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
140	Pending	CN	202080005092.6	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
141	Pending	IN	202117039846	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
142	Granted	KR	10-2608847B1	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.2.4, 7.4.3.4
143	Pending	KR	10-2023-0168150	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	8.5.4.2
144	Pending	MX	2021010159	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
145	Pending	MY	PI 2021003413	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
146	Granted	US	11711534B2	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
147	Pending	CN	202080020938.3	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1, 8.5.7.2
148	Pending	IN	202117041990	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1, 8.5.7.2
149	Pending	KR	10-2020-0030309	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1, 8.5.7.2
150	Pending	MY	PI 2021004231	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1, 8.5.7.2
151	Pending	US	17/428,330	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.3.11.7, 7.4.12.7, 8.5.7.1, 8.5.7.2

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152	Pending	US	17/871,015	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.4.12.10, 8.7.2
153	Pending	CN	202080005033.9	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.4.12.10, 8.7.2
154	Pending	IN	202117041733	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.4.12.10, 8.7.2
155	Pending	KR	10-2020-0030978	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.4.12.10, 8.7.2
156	Granted	US	11418811B2	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.4.12.10, 8.7.2
157	Pending	VN	1202106302	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.4.12.10, 8.7.2
158	Granted	ZA	2021/04683B	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE THEREFOR	7.4.12.10, 8.7.2
159	Granted	US	11463695B2	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	7.3.2.5, 7.4.3.5
160	Granted	US	17/894,067	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	7.3.2.5, 7.4.3.5
161	Pending	CN	202080005504.6	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	7.3.2.5, 7.4.3.5
162	Pending	IN	202117042789	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	7.3.2.5, 7.4.3.5
163	Pending	IN	202318017912	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	7.3.2.5, 7.4.3.5
164	Pending	KR	10-2020-0046251	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5

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165	Pending	MX	2021010155	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	7.3.2.5, 7.4.3.5
166	Pending	MY	PI 2021003420	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	7.3.2.5, 7.4.3.5
167	Pending	CN	202080006001.0	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
168	Pending	EP	2020855033	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
169	Pending	IN	202117058431	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
170	Pending	KR	10-2020-0104901	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.2.4, 7.4.3.4
171	Granted	US	11930170B2	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
172	Pending	VN	1202108458	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
173	Granted	ZA	2021/10172B	METHOD FOR ENCODING/DECODING IMAGE SIGNAL AND DEVICE THEREFOR	7.3.2.4, 7.4.3.4
174	Granted	US	11825086B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
175	Pending	US	18/237,312	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.4.12.11
176	Granted	CN	113039799B	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
177	Pending	CN	202310904822.1	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.4.3.5, 6.5.1, 7.3.2.5

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178	Pending	EP	2020858562	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
179	Granted	HK	40056360A1	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
180	Pending	IN	202117058429	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
181	Granted	JP	7305879B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
182	Granted	JP	7364818B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
183	Pending	JP	2023173807	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.4.12.11
184	Pending	KR	10-2020-0104902	METHOD FOR ENCODING/DECODING VIDEO SIGNAL AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
185	Pending	MX	2021016147	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
186	Pending	MY	PI 2021007487	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
187	Granted	US	11425376B2	IMAGE SIGNAL ENCODING/DECODING METHOD AND APPARATUS THEREFOR	7.3.2.5, 7.4.3.5
188	Pending	CN	202080010755.3	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
189	Pending	EP	2020903142	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
190	Pending	IN	202117057330	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5

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191	Granted	JP	7486586B2	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
192	Pending	KR	10-2020-0175622	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
193	Pending	US	17/419,391	METHOD FOR ENCODING/DECODING IMAGE SIGNAL, AND DEVICE FOR SAME	6.5.1, 7.3.2.5, 7.4.3.5
194	Pending	VN	1202108484	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
195	Granted	ZA	2021/10174B	IMAGE SIGNAL ENCODING/DECODING METHOD AND DEVICE THEREFOR	6.5.1, 7.3.2.5, 7.4.3.5
196	Granted	US	11095898B2	Inter-Prediction Mode Based Image Processing Method, and Apparatus Therefor	3.46, 3.47, 3.48, 3.67, 8.5.1, 8.5.5.1, 8.5.6.1, 8.5.6.4, 8.5.5.7, 8.5.5.5, 3.51, 3.52, 3.17, 3.51, 3.52
197	Pending	US	17/491,791	Image Processing Method and Apparatus Therefor	8.4.5.2.6, 8.4.5.2.10
198	Granted	US	11240533B2	Video Decoding Method Using Residual Information in Video Coding System, and Apparatus Thereof	7.3.11.11, 9.3.4.2.9, 9.3.3, 9.3.4.2
199	Granted	US	10917637B2	Image Coding Method and Device Using Transform Skip Flag	7.3.2.4, 7.4.2.4, 7.3.11.5, 7.3.11.10, 7.4.12.10
200	Granted	US	11140409B2	DMVR and BDOF Based Inter Prediction Method and Apparatus Thereof	8.5.3, 8.5.6.5
201	Granted	US	10715833B2	Adaptive Syntax Grouping and Compression in Video Data Using a Default Value and an Exception Value	7.3.11.4, 7.4.12.4, 7.3.11.5, 7.4.12.5, 7.3.11.4, 7.4.12.4