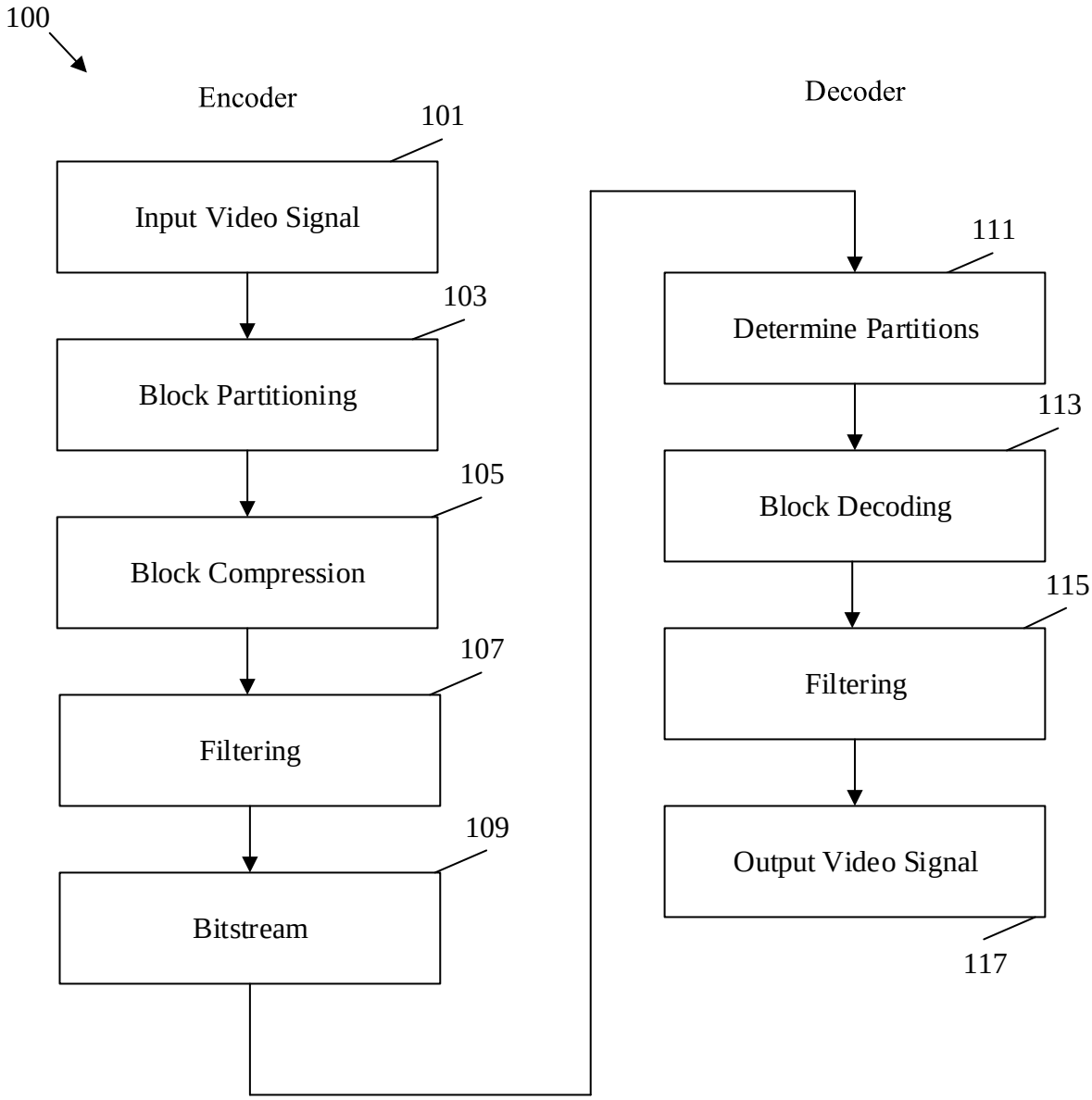

100
Encoder
Decoder
101
Input Video Signal
103
Block Partitioning
105
Block Compression
107
Filtering
109
Bitstream
111
Determine Partitions
113
Block Decoding
115
Filtering
Output Video Signal
117

FIG. 1

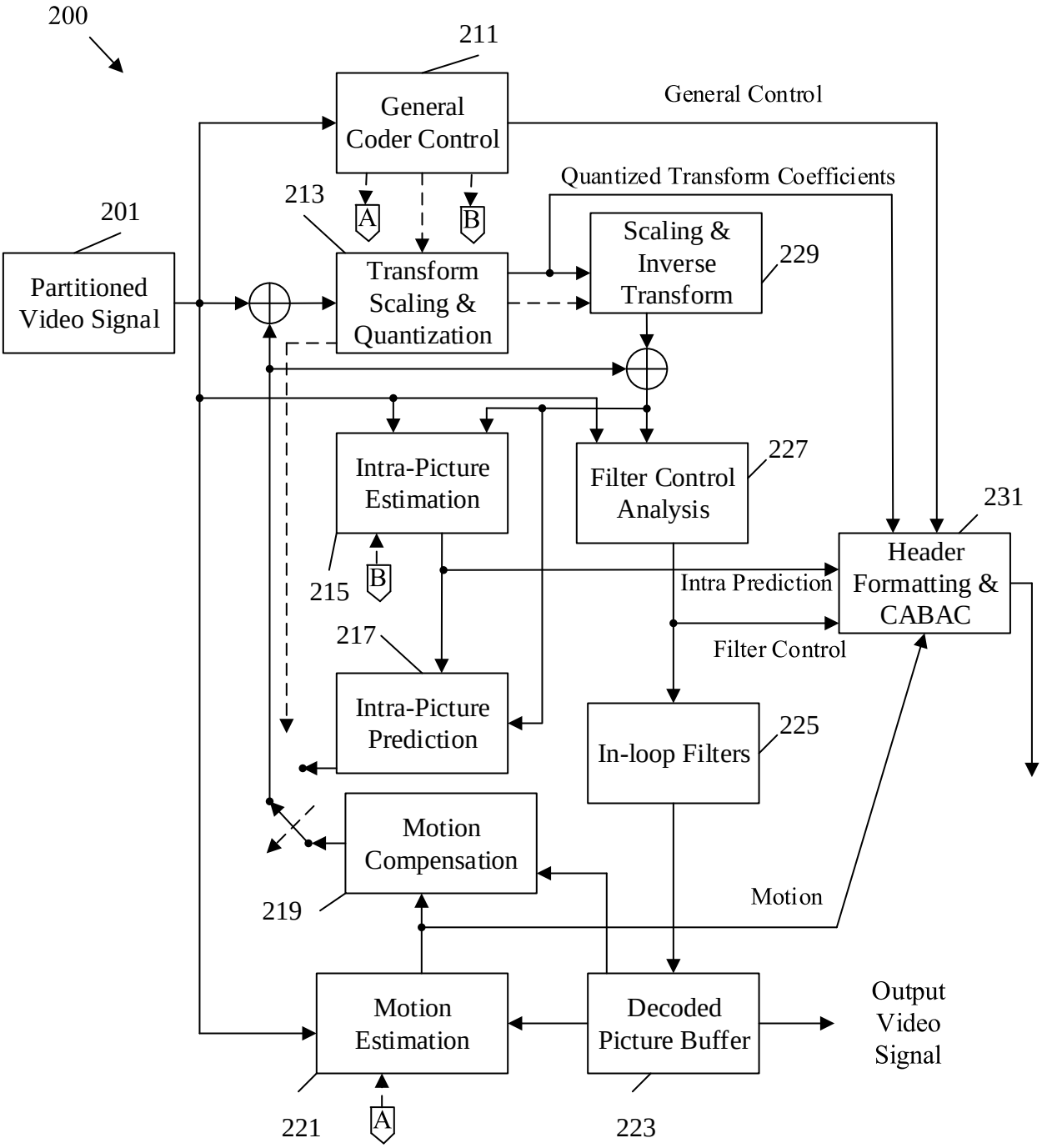

200
211
General Coder Control
General Control
Quantized Transform Coefficients
213
201
A
B
Partitioned Video Signal
Transform Scaling & Quantization
Scaling & Inverse Transform
229
Intra-Picture Estimation
Filter Control Analysis
227
231
215
B
Intra Prediction
Header Formatting & CABAC
217
Filter Control
Intra-Picture Prediction
In-loop Filters
225
Motion Compensation
219
Motion
Motion Estimation
Decoded Picture Buffer
Output Video Signal
221
A
223

FIG. 2

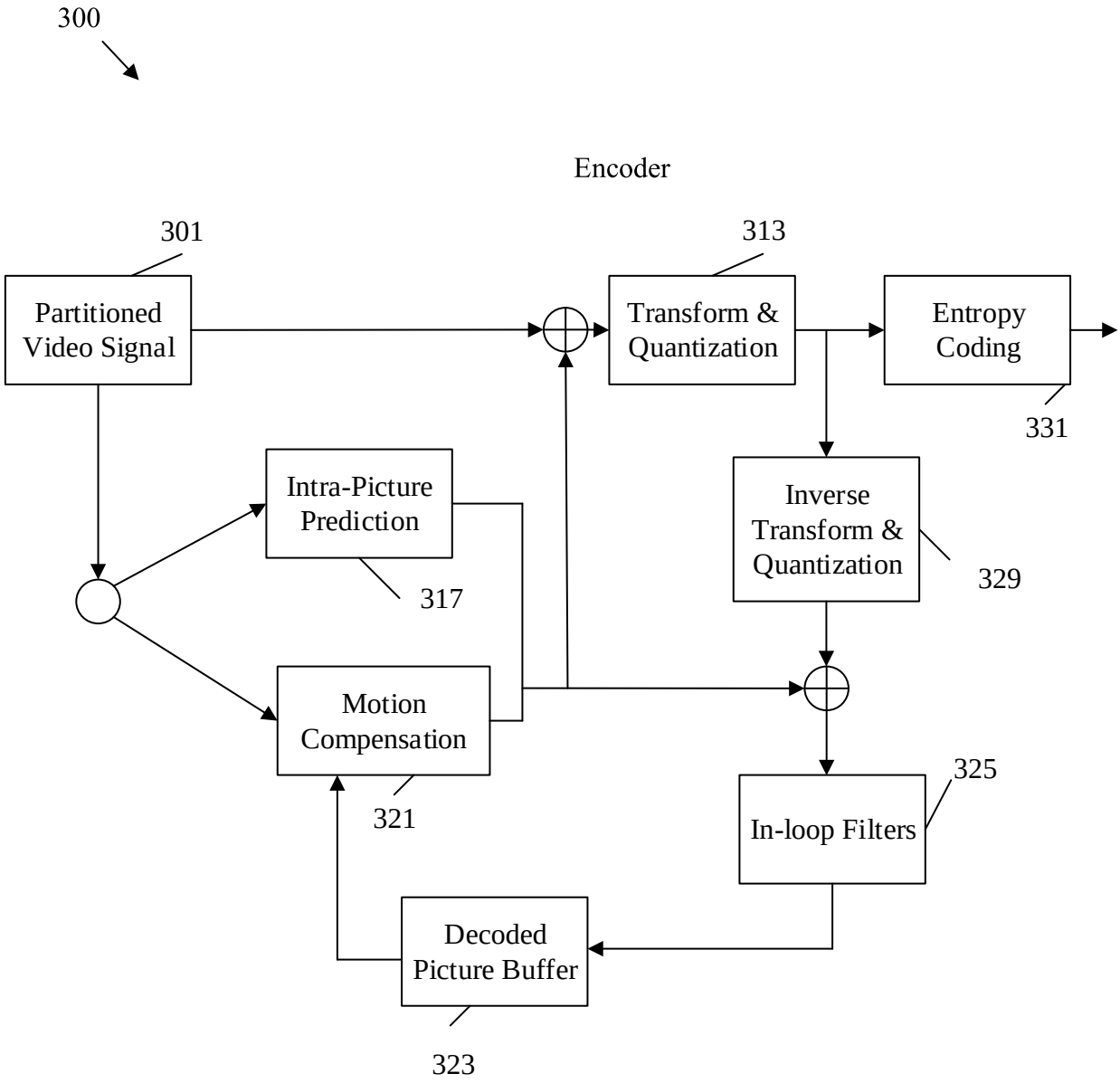

300
Encoder
301
Partitioned Video Signal
313
Transform & Quantization
Entropy Coding
331
Intra-Picture Prediction
317
Inverse Transform & Quantization
329
Motion Compensation
321
325
In-loop Filters
Decoded Picture Buffer
323

FIG. 3

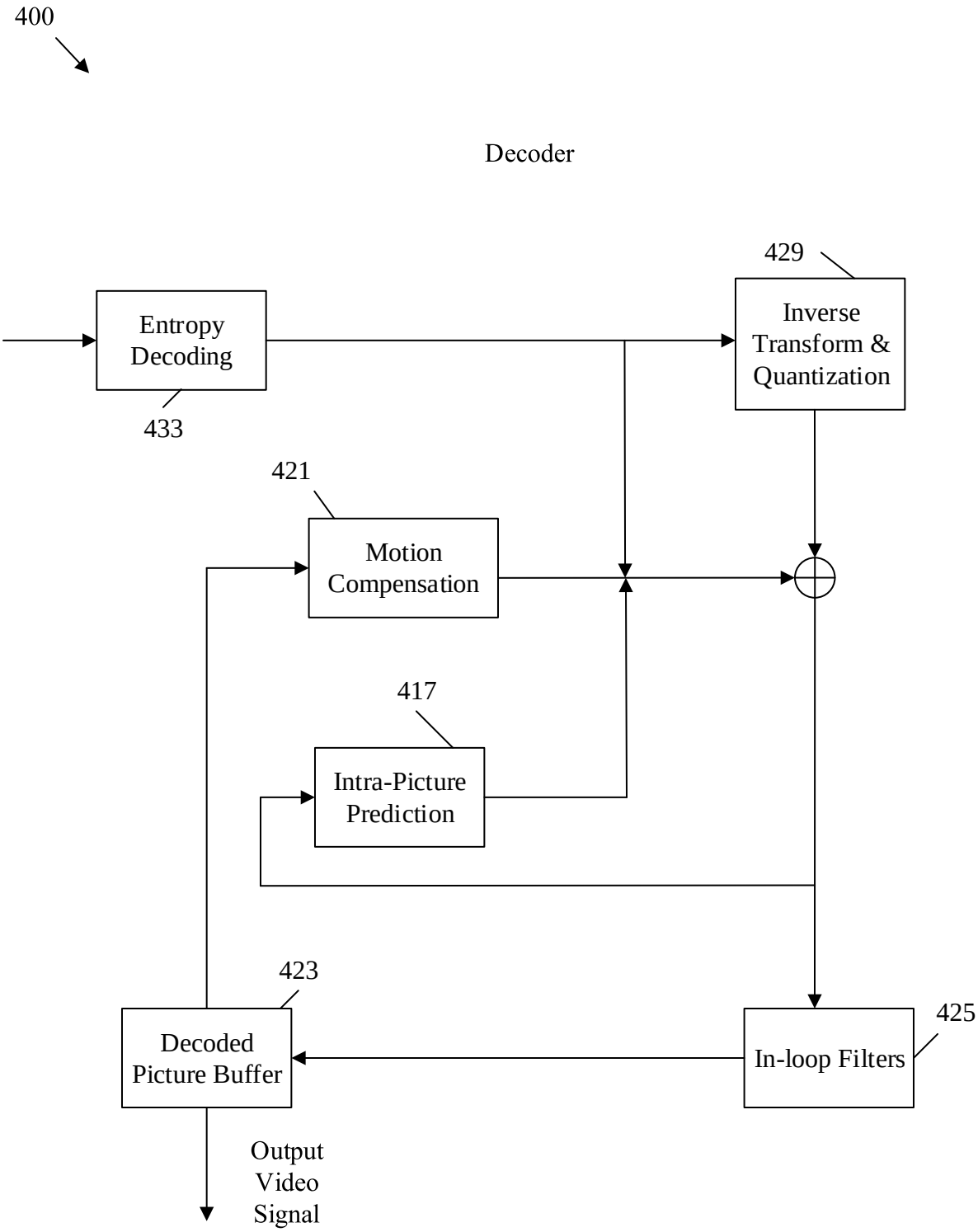

400
Decoder
429
Entropy Decoding
433
Inverse Transform & Quantization
421
Motion Compensation
417
Intra-Picture Prediction
423
Decoded Picture Buffer
425
In-loop Filters
Output Video Signal

FIG. 4

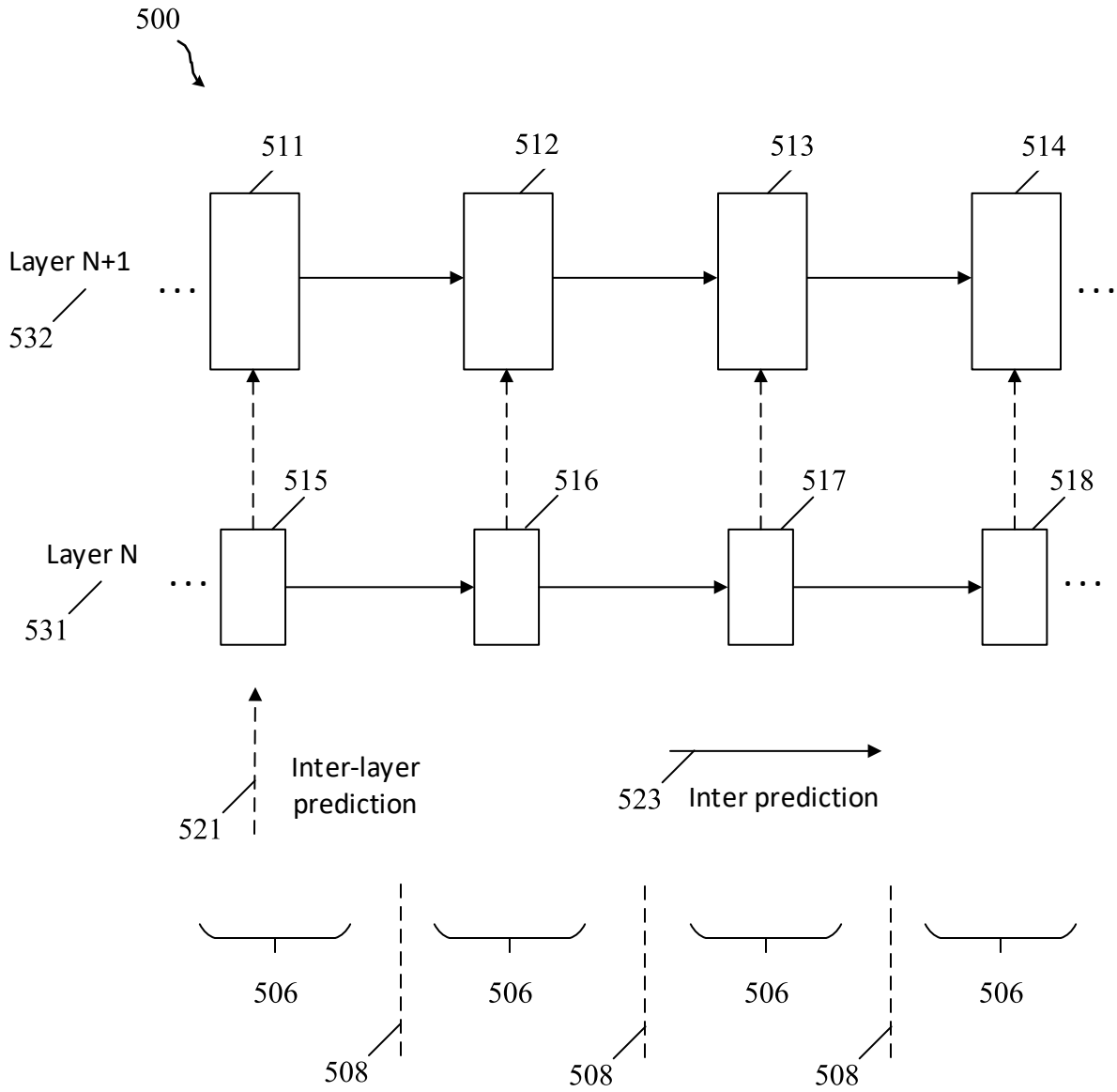

500
511
512
513
514
Layer N+1
532
515
516
517
518
Layer N
531
Inter-layer prediction
521
523
Inter prediction
506
506
506
506
508
508
508

FIG. 5

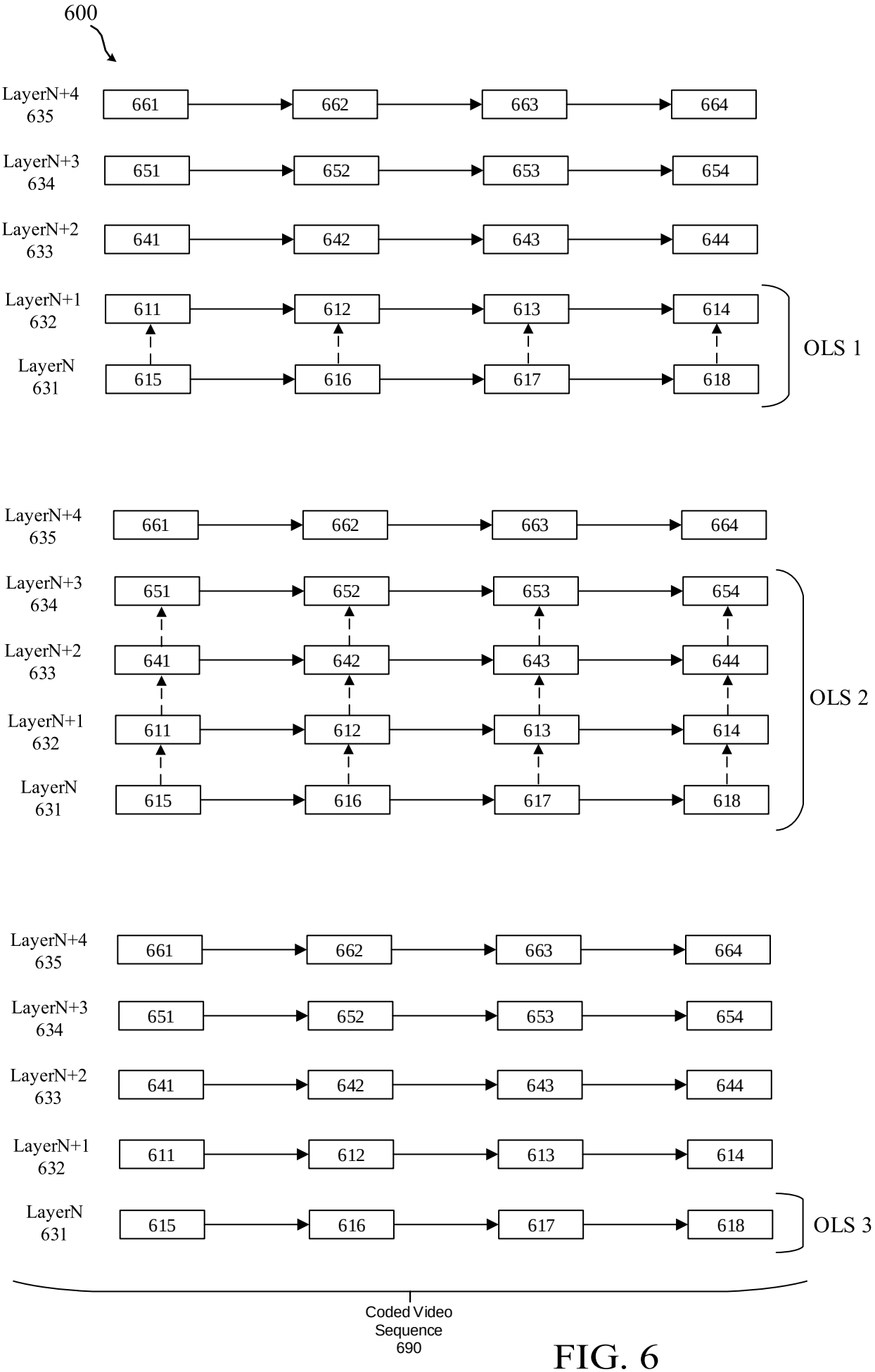
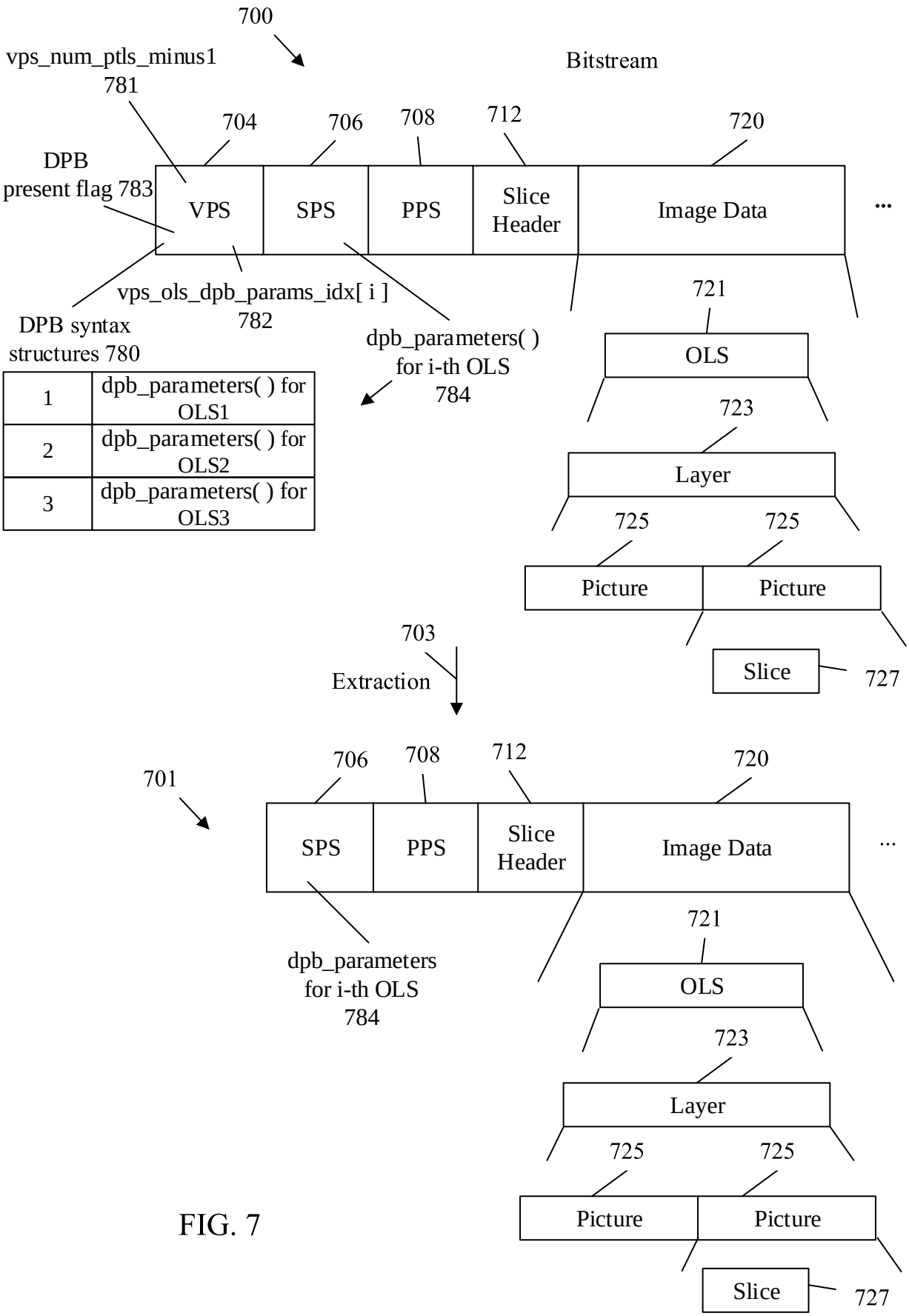

600
LayerN+4
635
661
662
663
664
LayerN+3
634
651
652
653
654
LayerN+2
633
641
642
643
644
LayerN+1
632
611
612
613
614
LayerN
631
615
616
617
618
OLS 1
LayerN+4
635
661
662
663
664
LayerN+3
634
651
652
653
654
LayerN+2
633
641
642
643
644
LayerN+1
632
611
612
613
614
LayerN
631
615
616
617
618
OLS 2
LayerN+4
635
661
662
663
664
LayerN+3
634
651
652
653
654
LayerN+2
633
641
642
643
644
LayerN+1
632
611
612
613
614
LayerN
631
615
616
617
618
OLS 3
Coded Video
Sequence
690

FIG. 6



1	dpb_parameters( ) for OLS1
2	dpb_parameters( ) for OLS2
3	dpb_parameters( ) for OLS3

FIG. 7

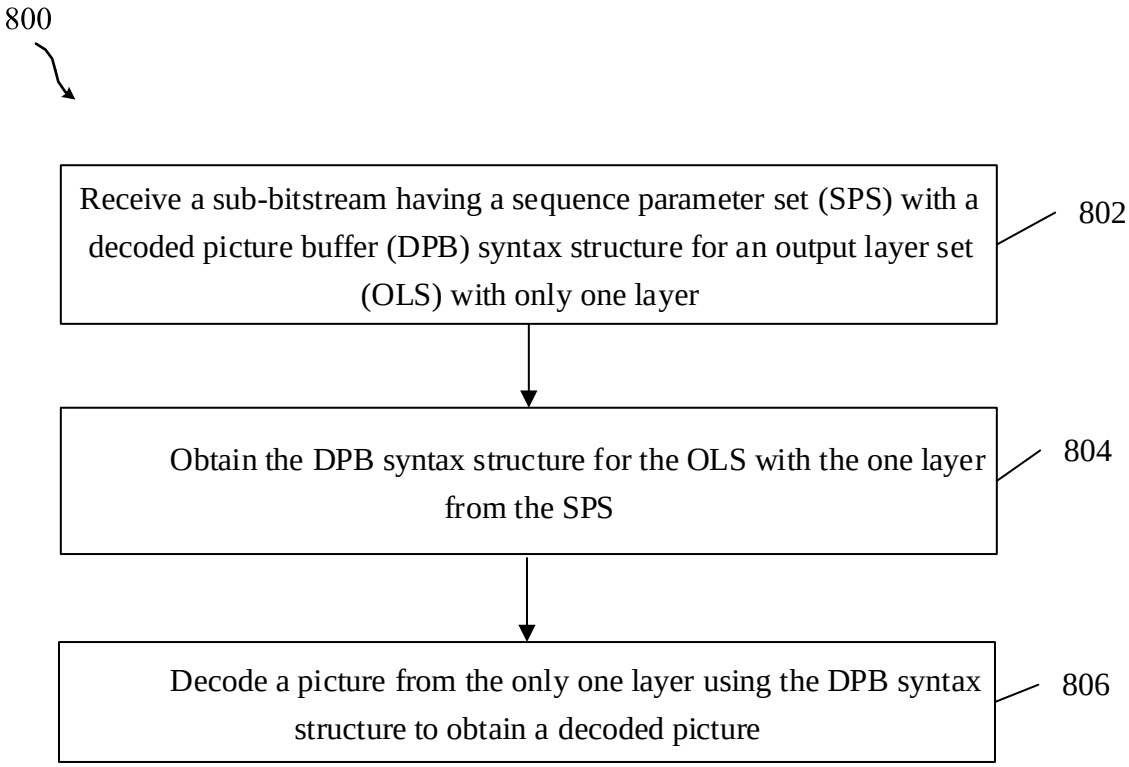

800
Receive a sub-bitstream having a sequence parameter set (SPS) with a decoded picture buffer (DPB) syntax structure for an output layer set (OLS) with only one layer
802
Obtain the DPB syntax structure for the OLS with the one layer from the SPS
804
Decode a picture from the only one layer using the DPB syntax structure to obtain a decoded picture
806

FIG. 8

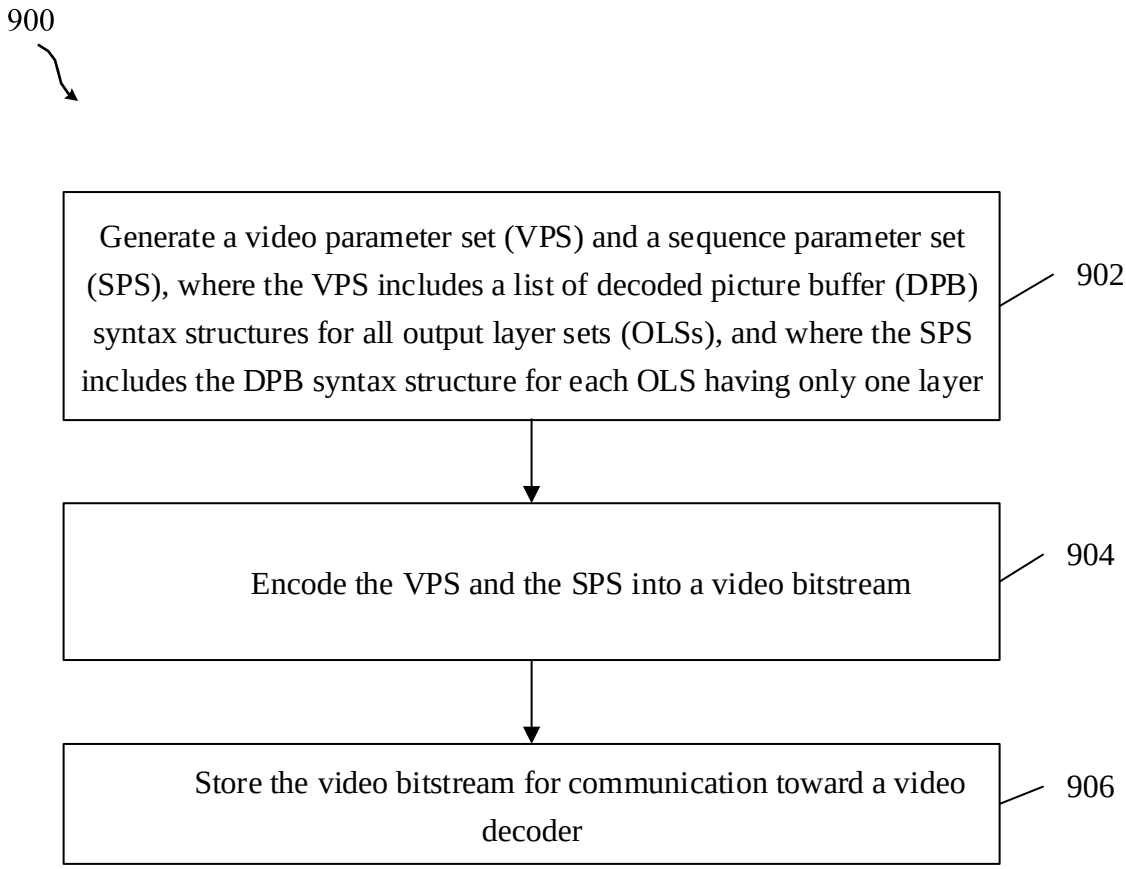

900
Generate a video parameter set (VPS) and a sequence parameter set (SPS), where the VPS includes a list of decoded picture buffer (DPB) syntax structures for all output layer sets (OLSs), and where the SPS includes the DPB syntax structure for each OLS having only one layer
902
Encode the VPS and the SPS into a video bitstream
904
Store the video bitstream for communication toward a video decoder
906

FIG. 9

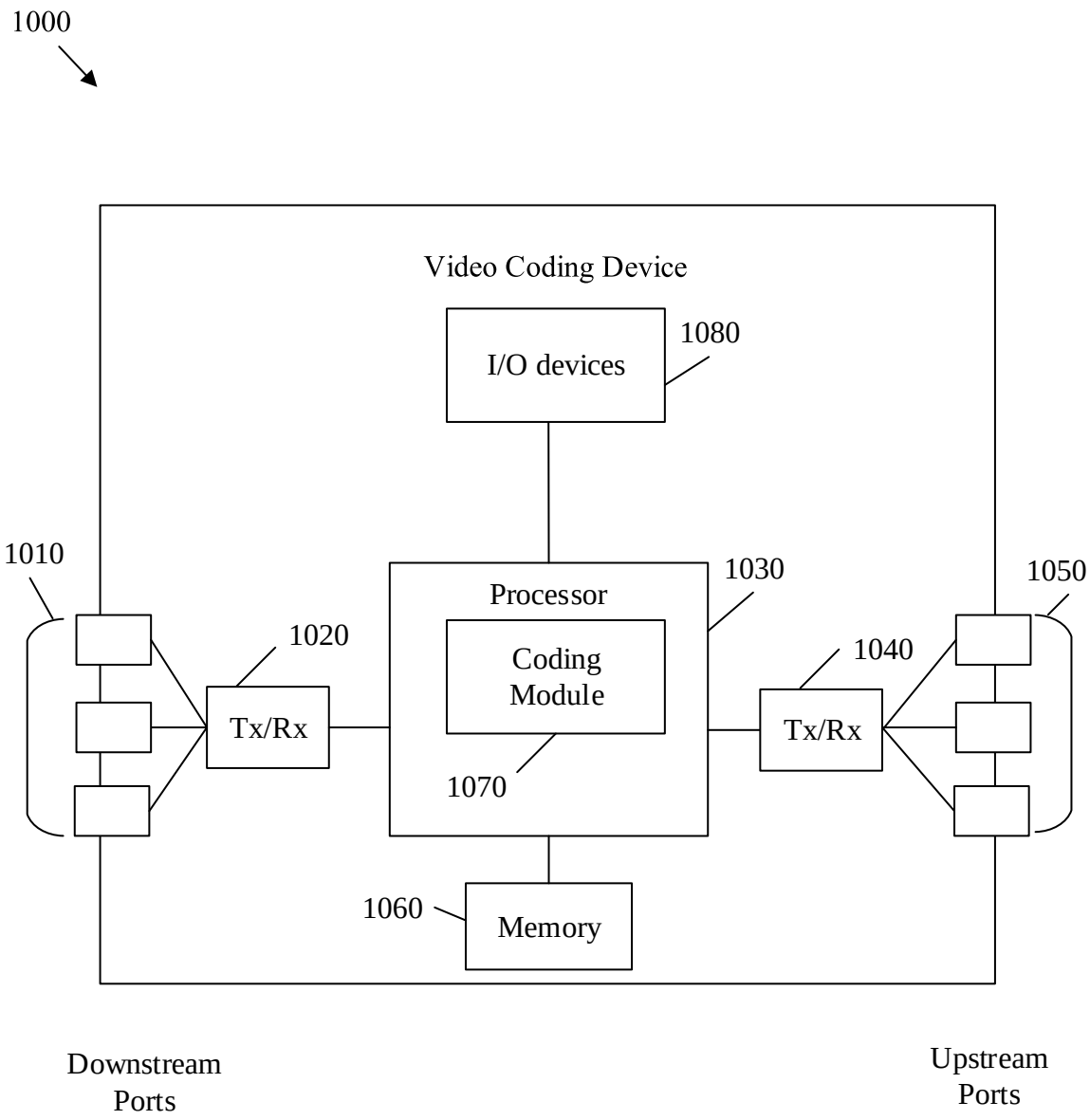

1000
Video Coding Device
I/O devices
1080
1010
1020
Tx/Rx
Processor
Coding Module
1030
1070
1040
Tx/Rx
1050
1060
Memory
Downstream Ports
Upstream Ports

FIG. 10

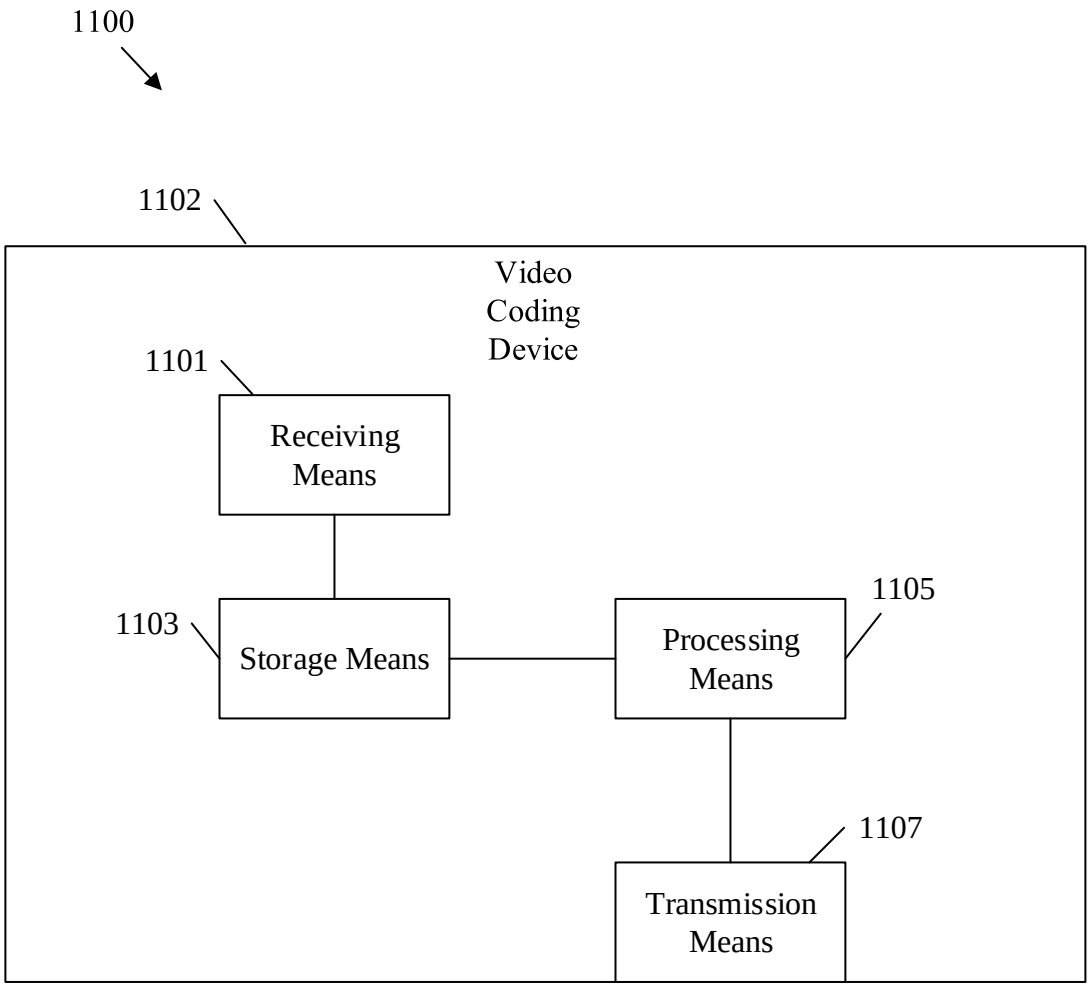

1100
1102
Video
Coding
Device
1101
Receiving
Means
1103
Storage Means
Processing
Means
1105
1107
Transmission
Means

FIG. 11