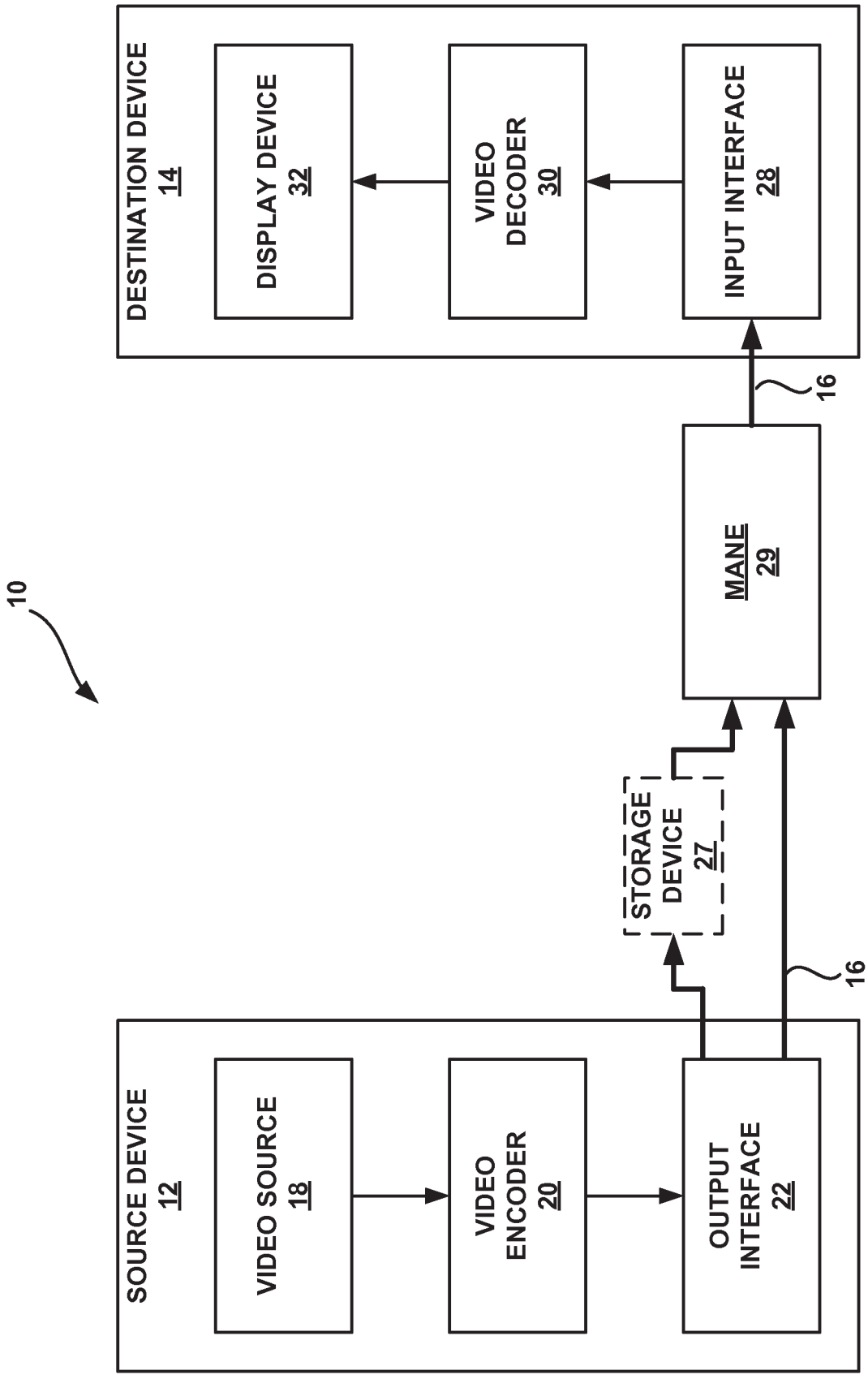
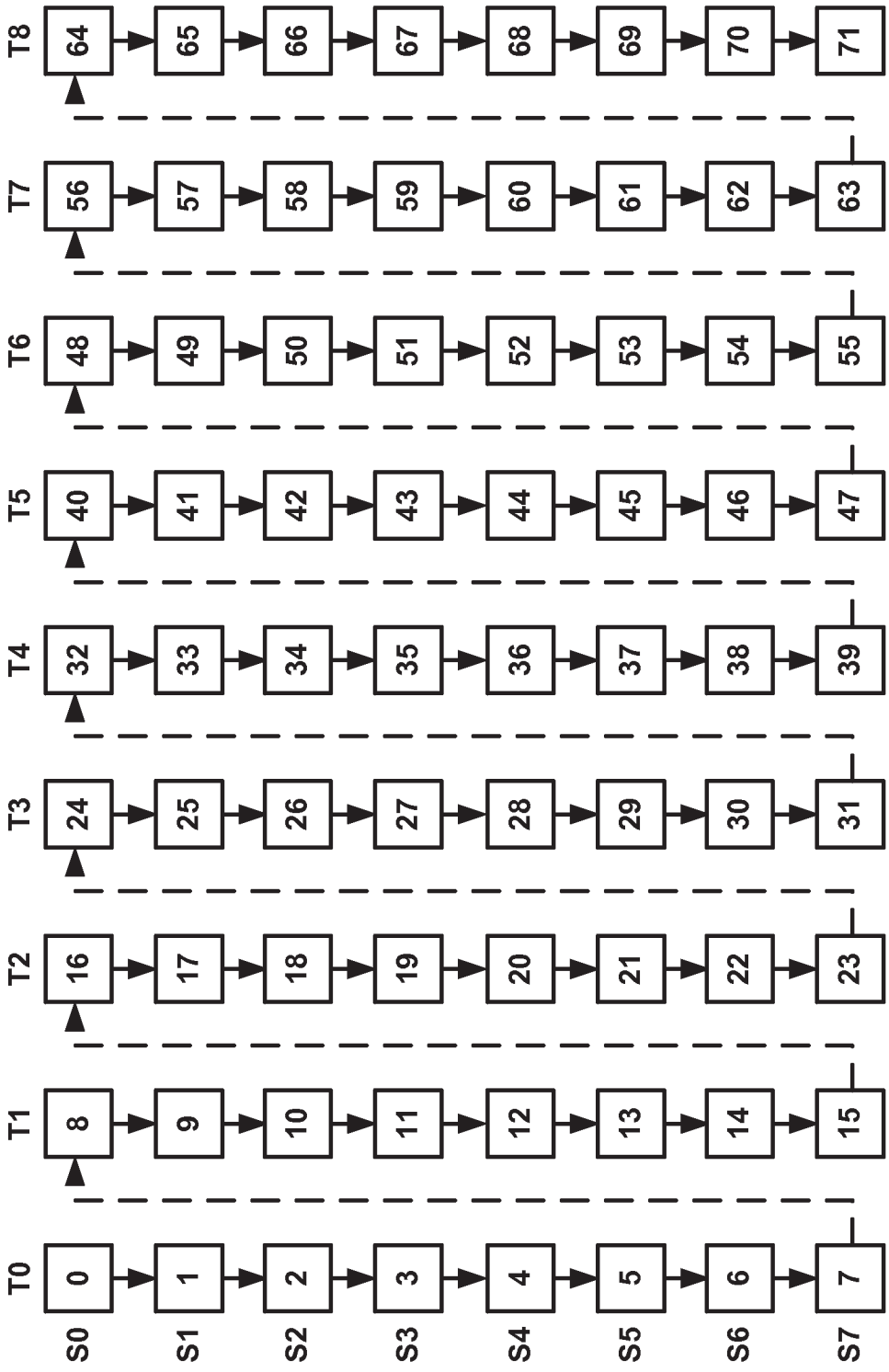

10
SOURCE DEVICE
12
VIDEO SOURCE
18
VIDEO
ENCODER
20
OUTPUT
INTERFACE
22
STORAGE
DEVICE
27
16
MANE
29
16
DESTINATION DEVICE
14
DISPLAY DEVICE
32
VIDEO
DECODER
30
INPUT INTERFACE
28

FIG. 1


T0
T1
T2
T3
T4
T5
T6
T7
T8
S0
S1
S2
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S4
S5
S6
S7
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FIG. 2

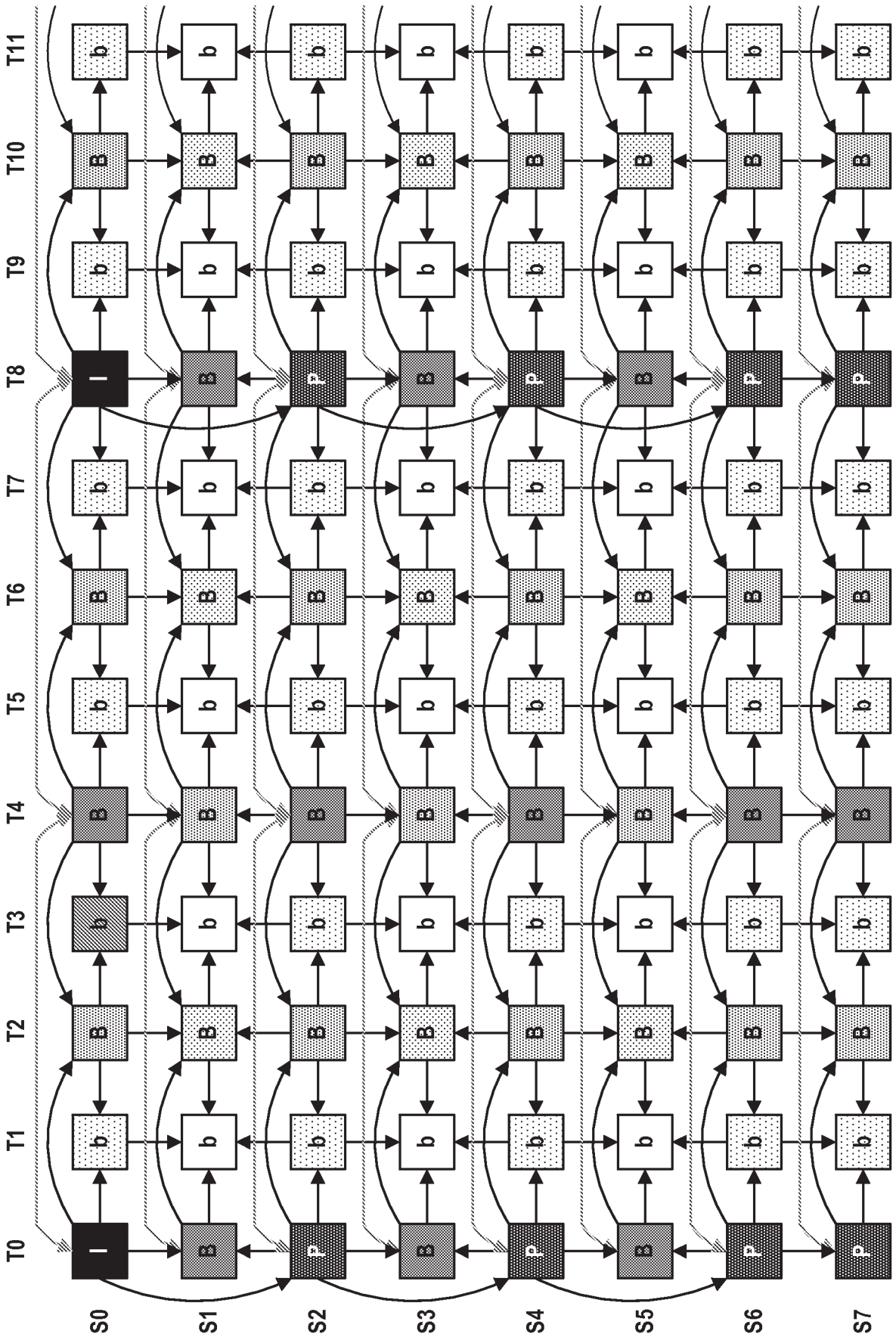

FIG. 3

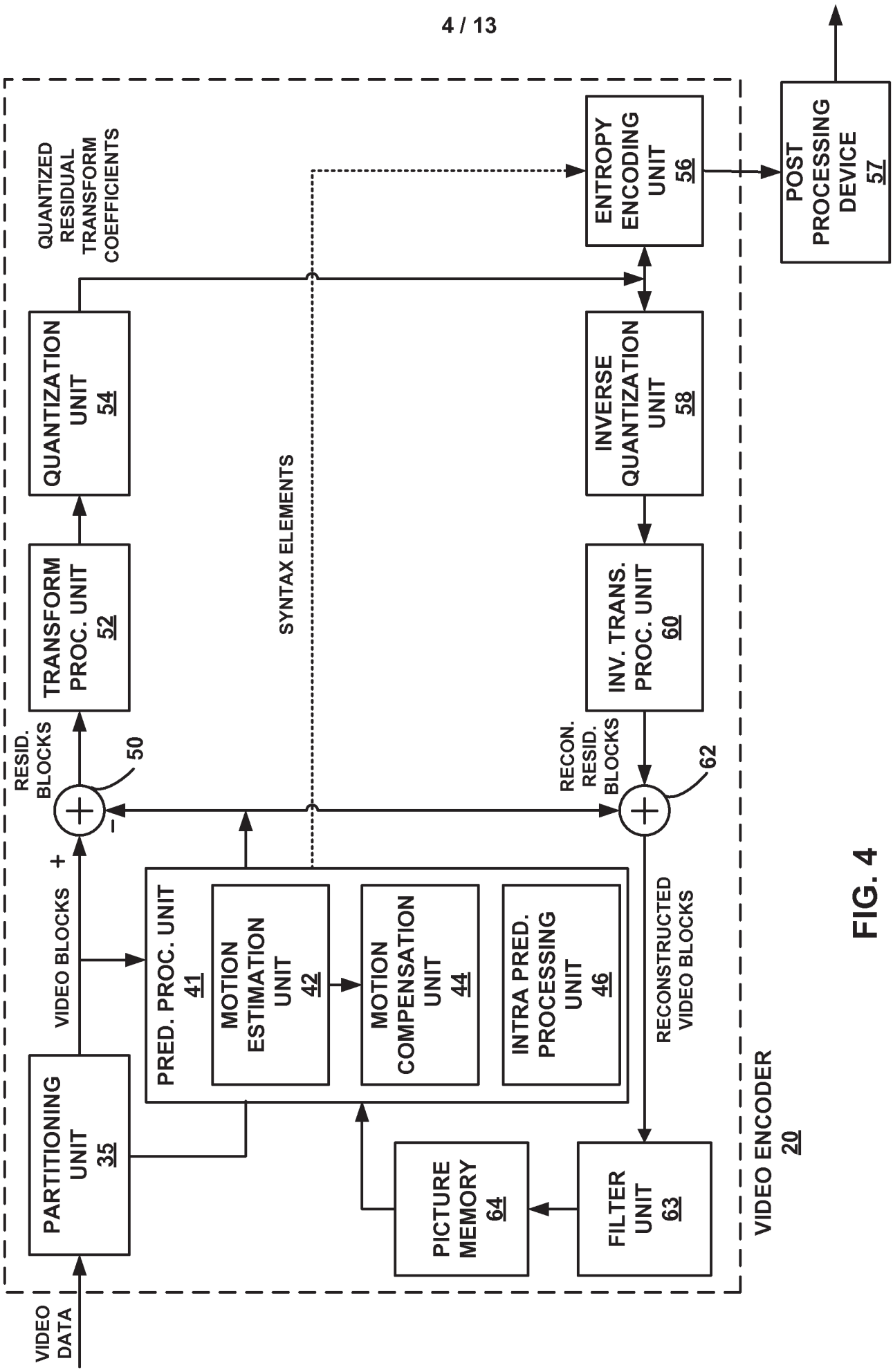
VIDEO DATA
VIDEO ENCODER 20
PARTITIONING UNIT 35
PICTURE MEMORY 64
FILTER UNIT 63
PRED. PROC. UNIT 41
MOTION ESTIMATION UNIT 42
MOTION COMPENSATION UNIT 44
INTRA PRED. PROCESSING UNIT 46
VIDEO BLOCKS
RESID. BLOCKS
50
TRANSFORM PROC. UNIT 52
QUANTIZATION UNIT 54
QUANTIZED RESIDUAL TRANSFORM COEFFICIENTS
SYNTAX ELEMENTS
INV. TRANS. PROC. UNIT 60
INVERSE QUANTIZATION UNIT 58
RECON. RESID. BLOCKS
62
RECONSTRUCTED VIDEO BLOCKS
ENTROPY ENCODING UNIT 56
POST PROCESSING DEVICE 57

FIG. 4

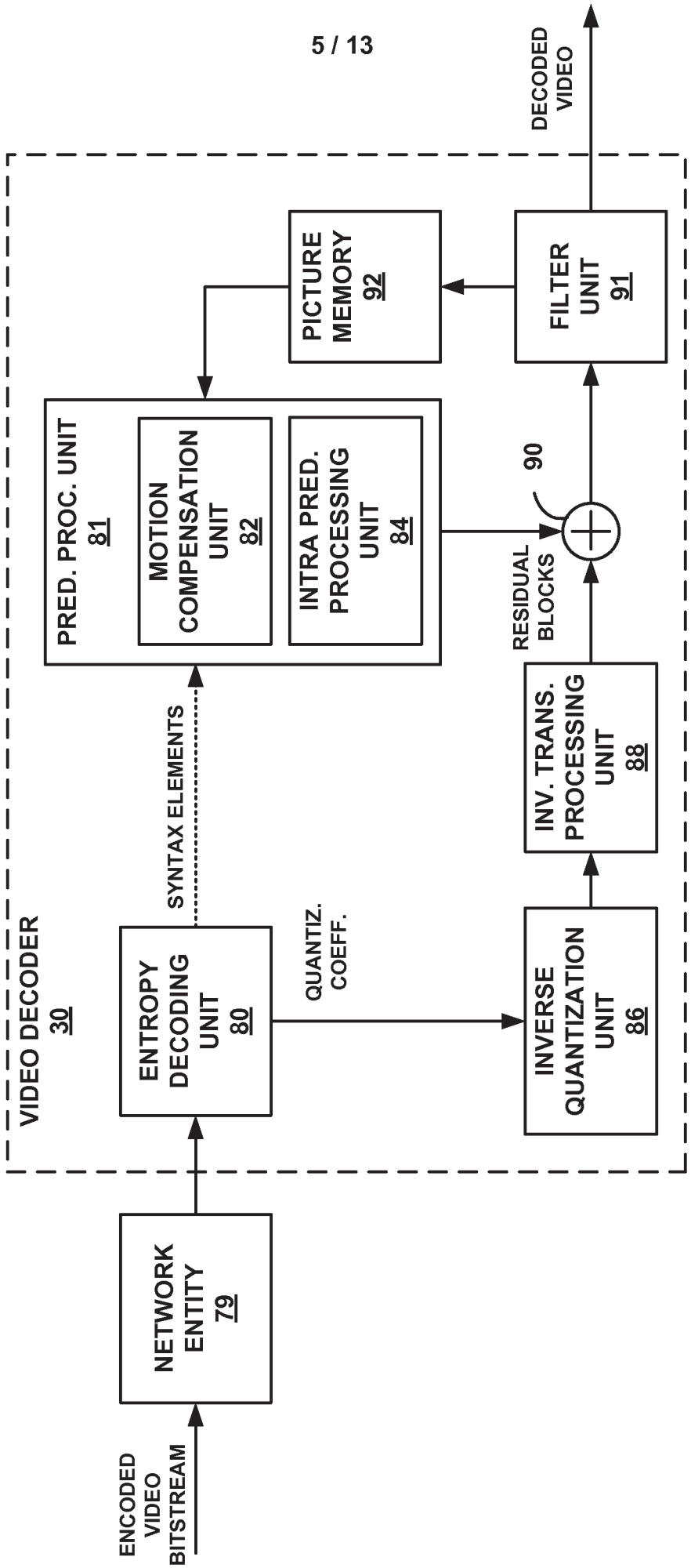
ENCODED VIDEO BITSTREAM
NETWORK ENTITY 79
VIDEO DECODER 30
ENTROPY DECODING UNIT 80
SYNTAX ELEMENTS
QUANTIZ. COEFF.
INVERSE QUANTIZATION UNIT 86
INV. TRANS. PROCESSING UNIT 88
RESIDUAL BLOCKS
90
PRED. PROC. UNIT 81
MOTION COMPENSATION UNIT 82
INTRA PRED. PROCESSING UNIT 84
PICTURE MEMORY 92
FILTER UNIT 91
DECODED VIDEO

FIG. 5

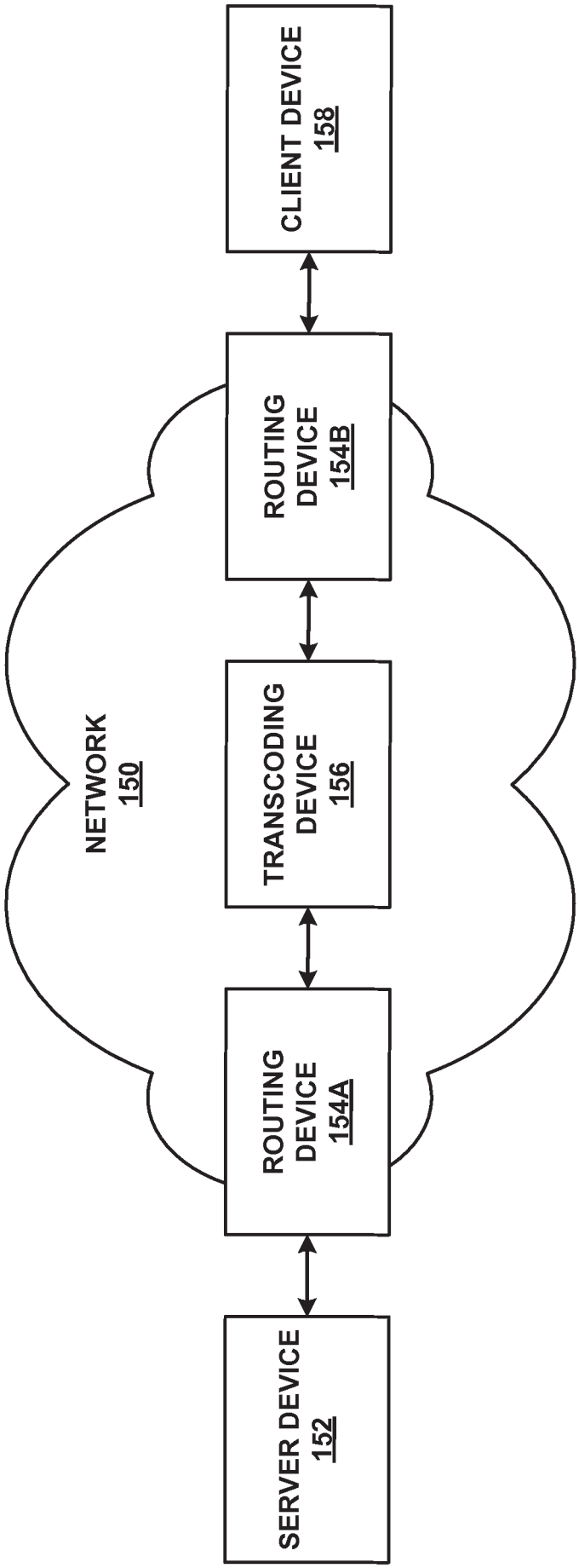
CLIENT DEVICE
158
ROUTING
DEVICE
154B
NETWORK
150
TRANSCODING
DEVICE
156
ROUTING
DEVICE
154A
SERVER DEVICE
152

FIG. 6

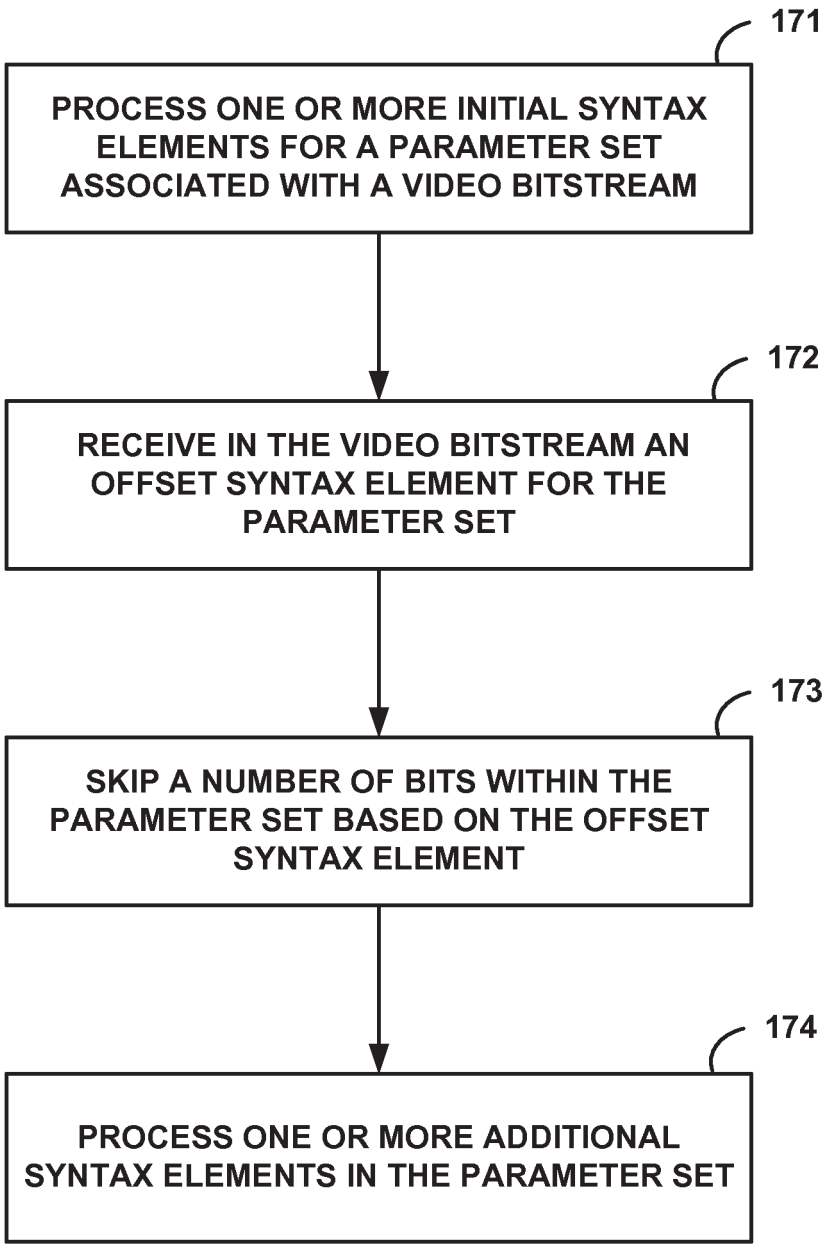
171
PROCESS ONE OR MORE INITIAL SYNTAX ELEMENTS FOR A PARAMETER SET ASSOCIATED WITH A VIDEO BITSTREAM
172
RECEIVE IN THE VIDEO BITSTREAM AN OFFSET SYNTAX ELEMENT FOR THE PARAMETER SET
173
SKIP A NUMBER OF BITS WITHIN THE PARAMETER SET BASED ON THE OFFSET SYNTAX ELEMENT
174
PROCESS ONE OR MORE ADDITIONAL SYNTAX ELEMENTS IN THE PARAMETER SET

FIG. 7

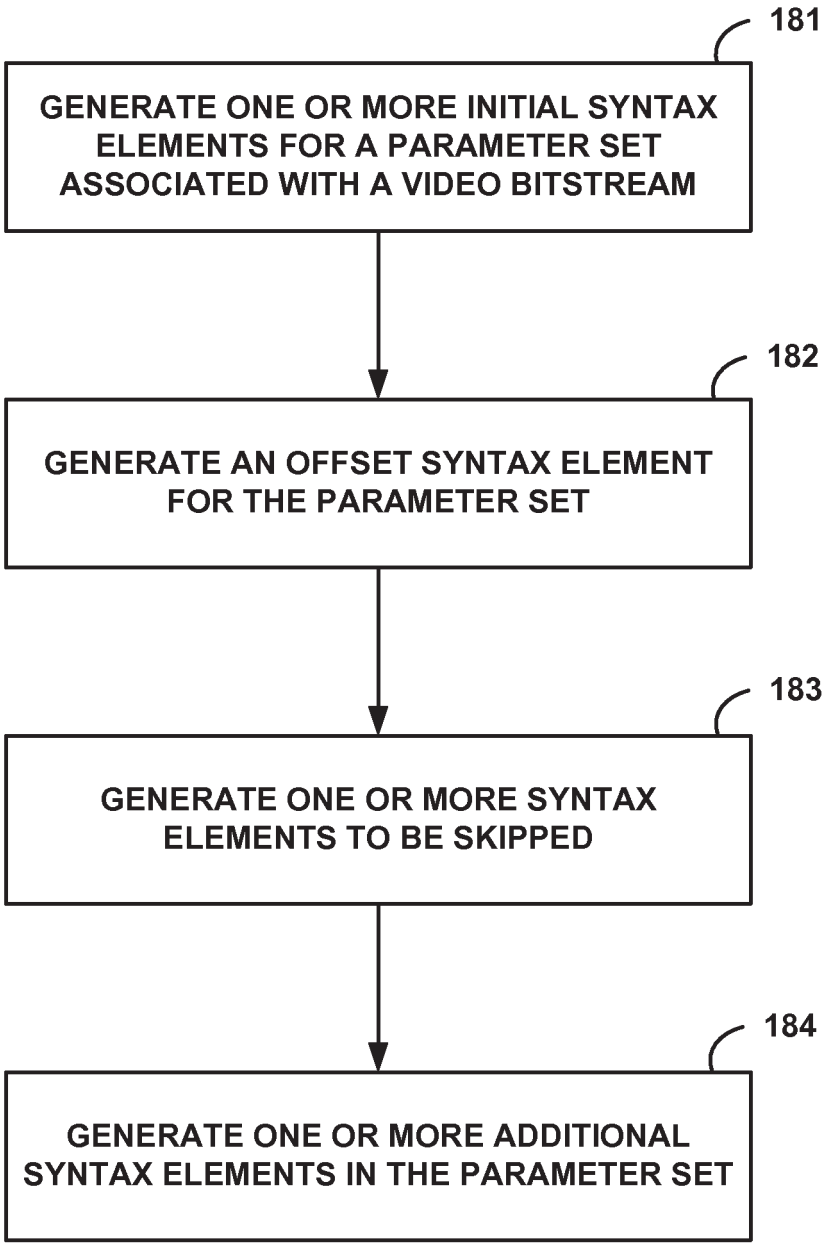
181
GENERATE ONE OR MORE INITIAL SYNTAX ELEMENTS FOR A PARAMETER SET ASSOCIATED WITH A VIDEO BITSTREAM
182
GENERATE AN OFFSET SYNTAX ELEMENT FOR THE PARAMETER SET
183
GENERATE ONE OR MORE SYNTAX ELEMENTS TO BE SKIPPED
184
GENERATE ONE OR MORE ADDITIONAL SYNTAX ELEMENTS IN THE PARAMETER SET

FIG. 8

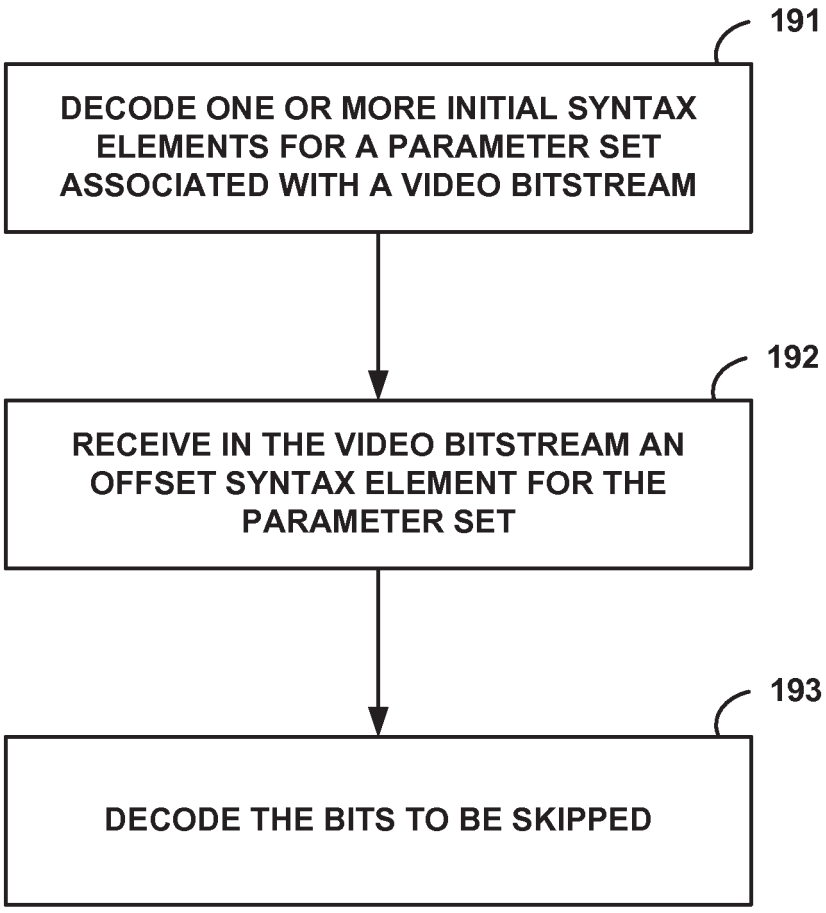
191
DECODE ONE OR MORE INITIAL SYNTAX ELEMENTS FOR A PARAMETER SET ASSOCIATED WITH A VIDEO BITSTREAM
192
RECEIVE IN THE VIDEO BITSTREAM AN OFFSET SYNTAX ELEMENT FOR THE PARAMETER SET
193
DECODE THE BITS TO BE SKIPPED

FIG. 9

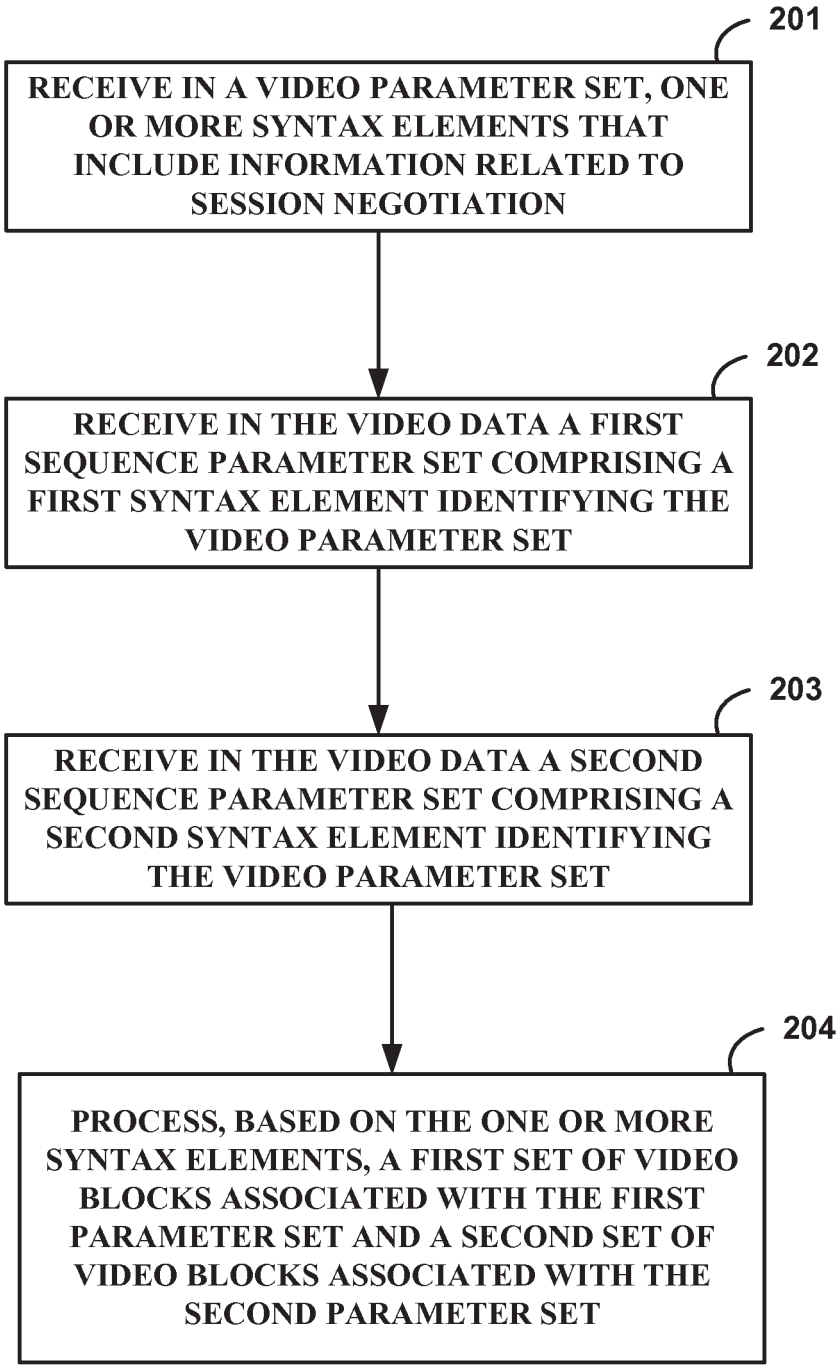
201
RECEIVE IN A VIDEO PARAMETER SET, ONE OR MORE SYNTAX ELEMENTS THAT INCLUDE INFORMATION RELATED TO SESSION NEGOTIATION
202
RECEIVE IN THE VIDEO DATA A FIRST SEQUENCE PARAMETER SET COMPRISING A FIRST SYNTAX ELEMENT IDENTIFYING THE VIDEO PARAMETER SET
203
RECEIVE IN THE VIDEO DATA A SECOND SEQUENCE PARAMETER SET COMPRISING A SECOND SYNTAX ELEMENT IDENTIFYING THE VIDEO PARAMETER SET
204
PROCESS, BASED ON THE ONE OR MORE SYNTAX ELEMENTS, A FIRST SET OF VIDEO BLOCKS ASSOCIATED WITH THE FIRST PARAMETER SET AND A SECOND SET OF VIDEO BLOCKS ASSOCIATED WITH THE SECOND PARAMETER SET

FIG. 10

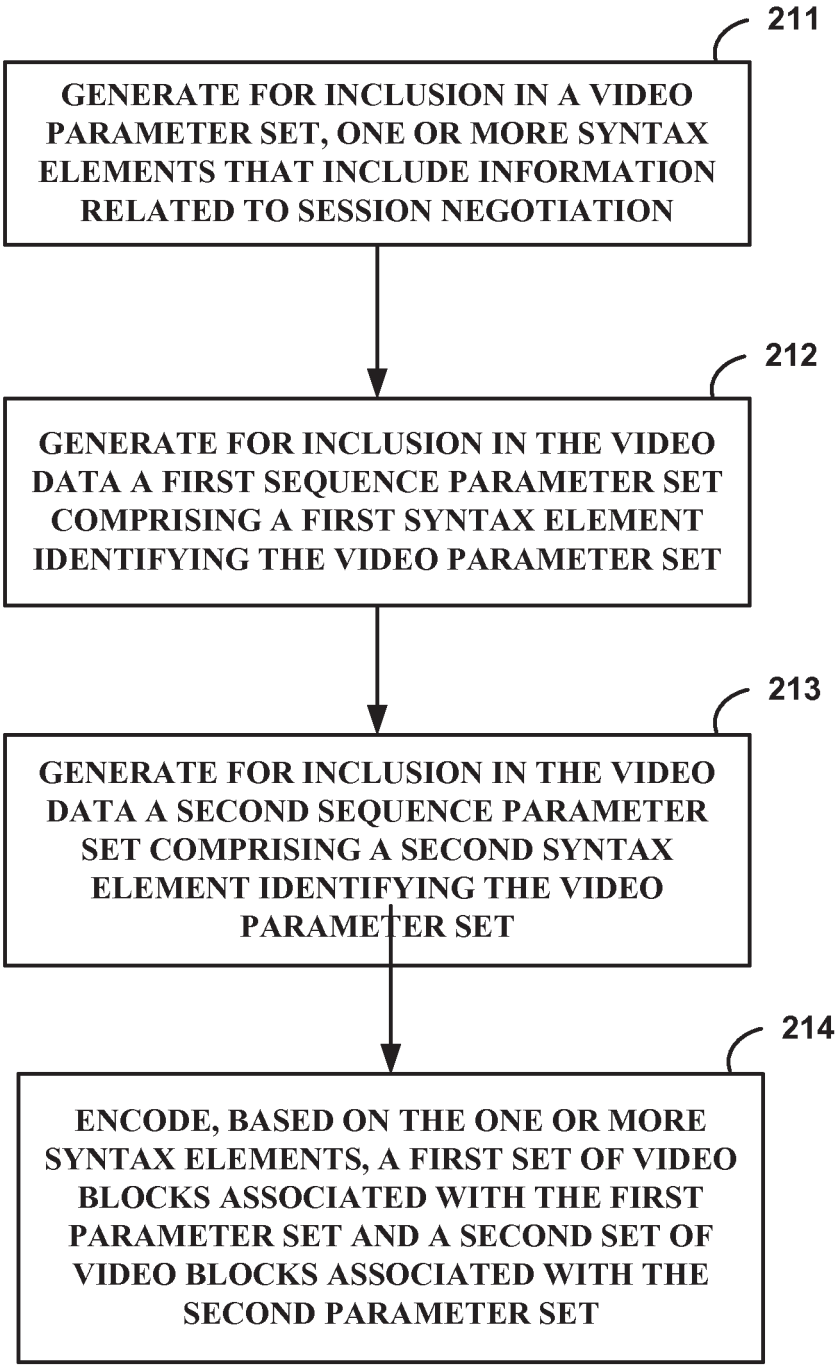
211
GENERATE FOR INCLUSION IN A VIDEO PARAMETER SET, ONE OR MORE SYNTAX ELEMENTS THAT INCLUDE INFORMATION RELATED TO SESSION NEGOTIATION
212
GENERATE FOR INCLUSION IN THE VIDEO DATA A FIRST SEQUENCE PARAMETER SET COMPRISING A FIRST SYNTAX ELEMENT IDENTIFYING THE VIDEO PARAMETER SET
213
GENERATE FOR INCLUSION IN THE VIDEO DATA A SECOND SEQUENCE PARAMETER SET COMPRISING A SECOND SYNTAX ELEMENT IDENTIFYING THE VIDEO PARAMETER SET
214
ENCODE, BASED ON THE ONE OR MORE SYNTAX ELEMENTS, A FIRST SET OF VIDEO BLOCKS ASSOCIATED WITH THE FIRST PARAMETER SET AND A SECOND SET OF VIDEO BLOCKS ASSOCIATED WITH THE SECOND PARAMETER SET

FIG. 11

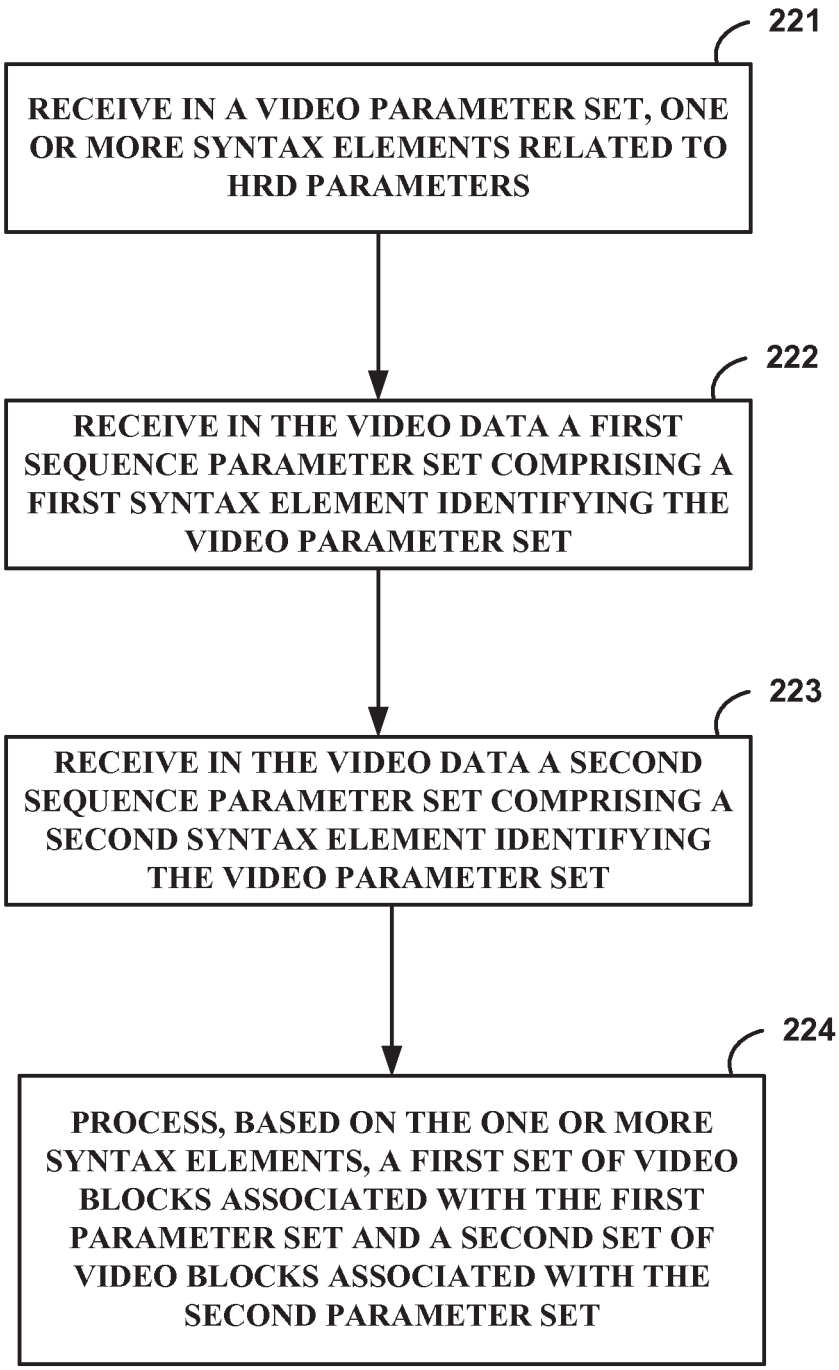
221
RECEIVE IN A VIDEO PARAMETER SET, ONE OR MORE SYNTAX ELEMENTS RELATED TO HRD PARAMETERS
222
RECEIVE IN THE VIDEO DATA A FIRST SEQUENCE PARAMETER SET COMPRISING A FIRST SYNTAX ELEMENT IDENTIFYING THE VIDEO PARAMETER SET
223
RECEIVE IN THE VIDEO DATA A SECOND SEQUENCE PARAMETER SET COMPRISING A SECOND SYNTAX ELEMENT IDENTIFYING THE VIDEO PARAMETER SET
224
PROCESS, BASED ON THE ONE OR MORE SYNTAX ELEMENTS, A FIRST SET OF VIDEO BLOCKS ASSOCIATED WITH THE FIRST PARAMETER SET AND A SECOND SET OF VIDEO BLOCKS ASSOCIATED WITH THE SECOND PARAMETER SET

FIG. 12

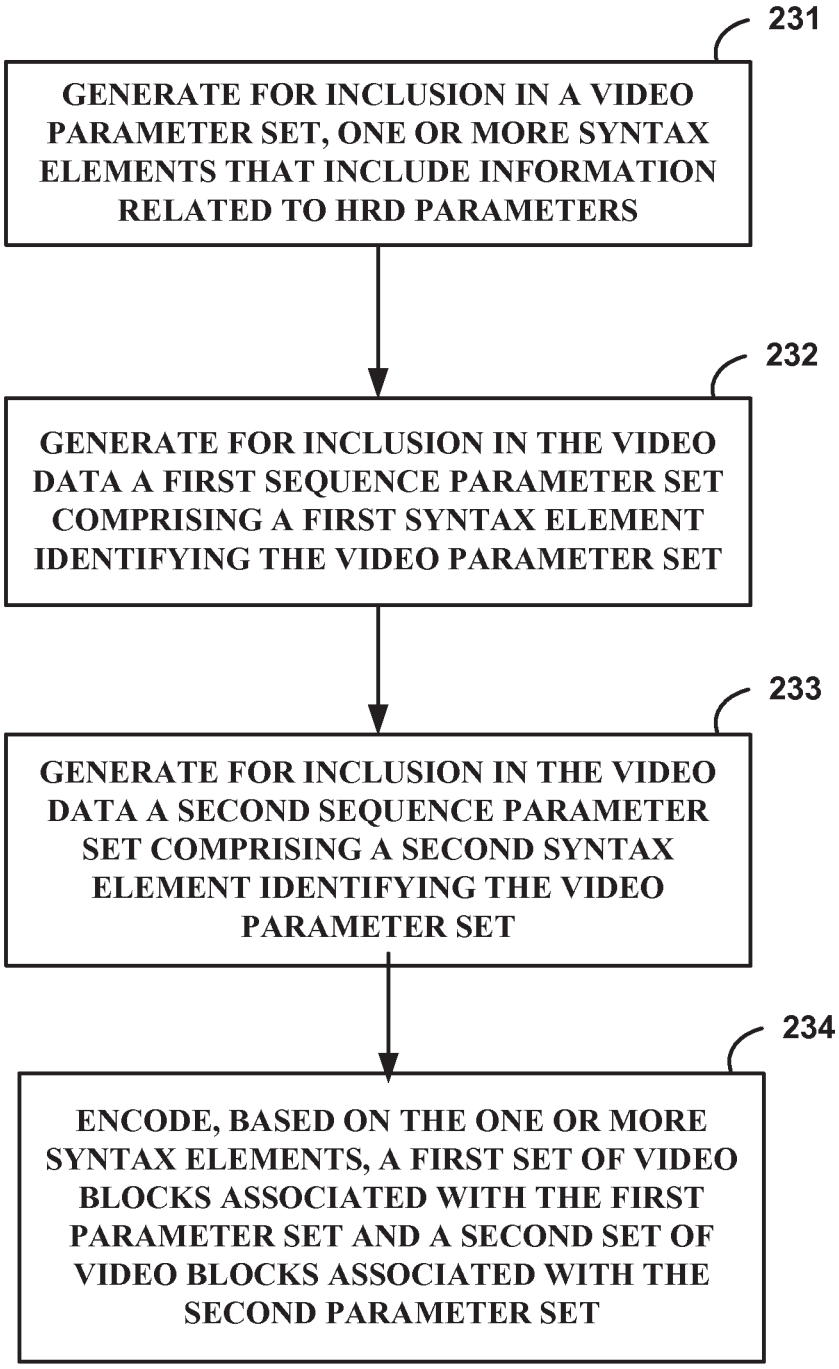
231
GENERATE FOR INCLUSION IN A VIDEO PARAMETER SET, ONE OR MORE SYNTAX ELEMENTS THAT INCLUDE INFORMATION RELATED TO HRD PARAMETERS
232
GENERATE FOR INCLUSION IN THE VIDEO DATA A FIRST SEQUENCE PARAMETER SET COMPRISING A FIRST SYNTAX ELEMENT IDENTIFYING THE VIDEO PARAMETER SET
233
GENERATE FOR INCLUSION IN THE VIDEO DATA A SECOND SEQUENCE PARAMETER SET COMPRISING A SECOND SYNTAX ELEMENT IDENTIFYING THE VIDEO PARAMETER SET
234
ENCODE, BASED ON THE ONE OR MORE SYNTAX ELEMENTS, A FIRST SET OF VIDEO BLOCKS ASSOCIATED WITH THE FIRST PARAMETER SET AND A SECOND SET OF VIDEO BLOCKS ASSOCIATED WITH THE SECOND PARAMETER SET

FIG. 13