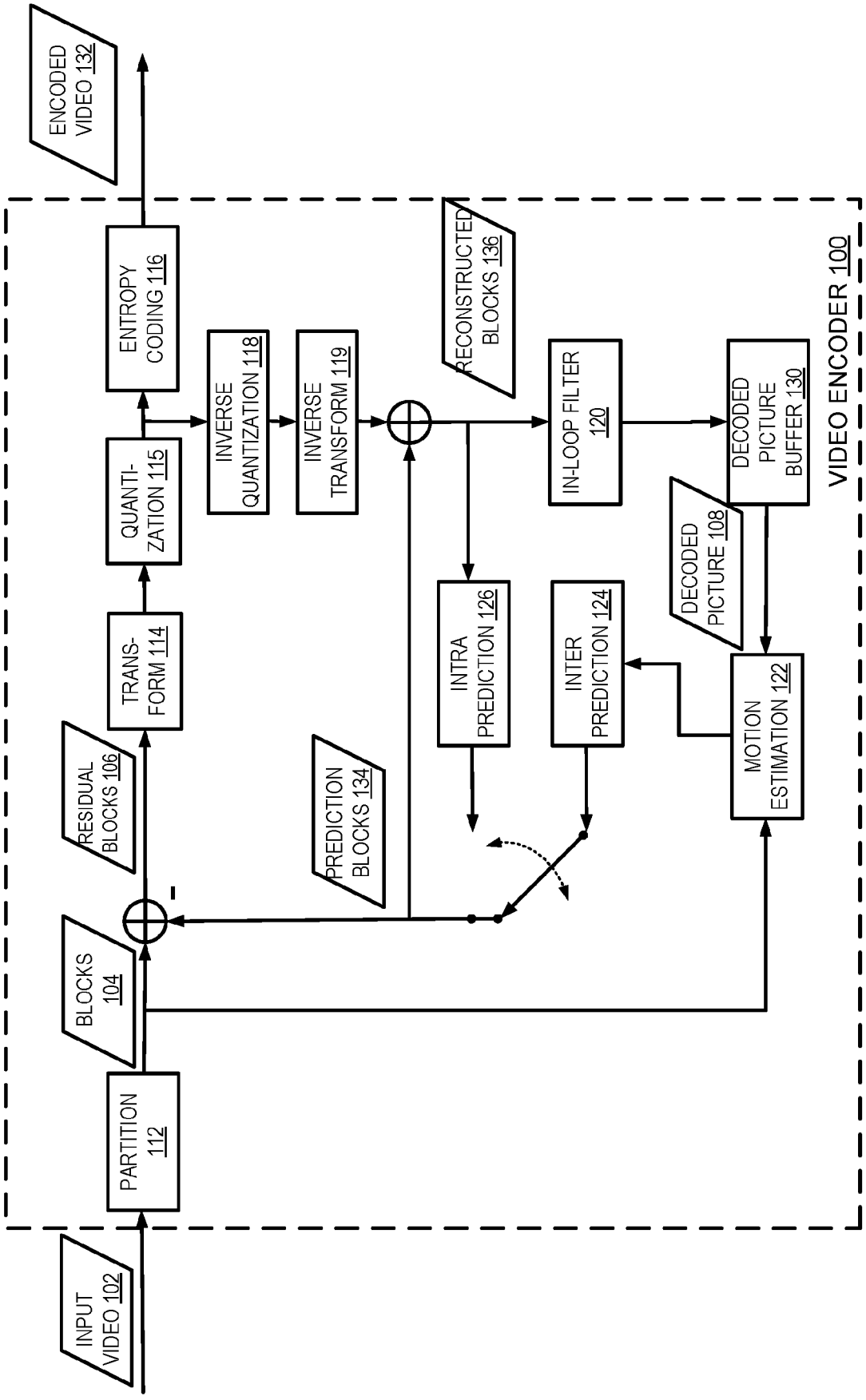

INPUT VIDEO 102
PARTITION 112
BLOCKS 104
RESIDUAL BLOCKS 106
TRANS-FORM 114
QUANTI-ZATION 115
ENTROPY CODING 116
ENCODED VIDEO 132
INVERSE QUANTIZATION 118
INVERSE TRANSFORM 119
PREDICTION BLOCKS 134
INTRA PREDICTION 126
INTER PREDICTION 124
MOTION ESTIMATION 122
RECONSTRUCTED BLOCKS 136
IN-LOOP FILTER 120
DECODED PICTURE 108
DECODED PICTURE BUFFER 130
VIDEO ENCODER 100

FIG. 1

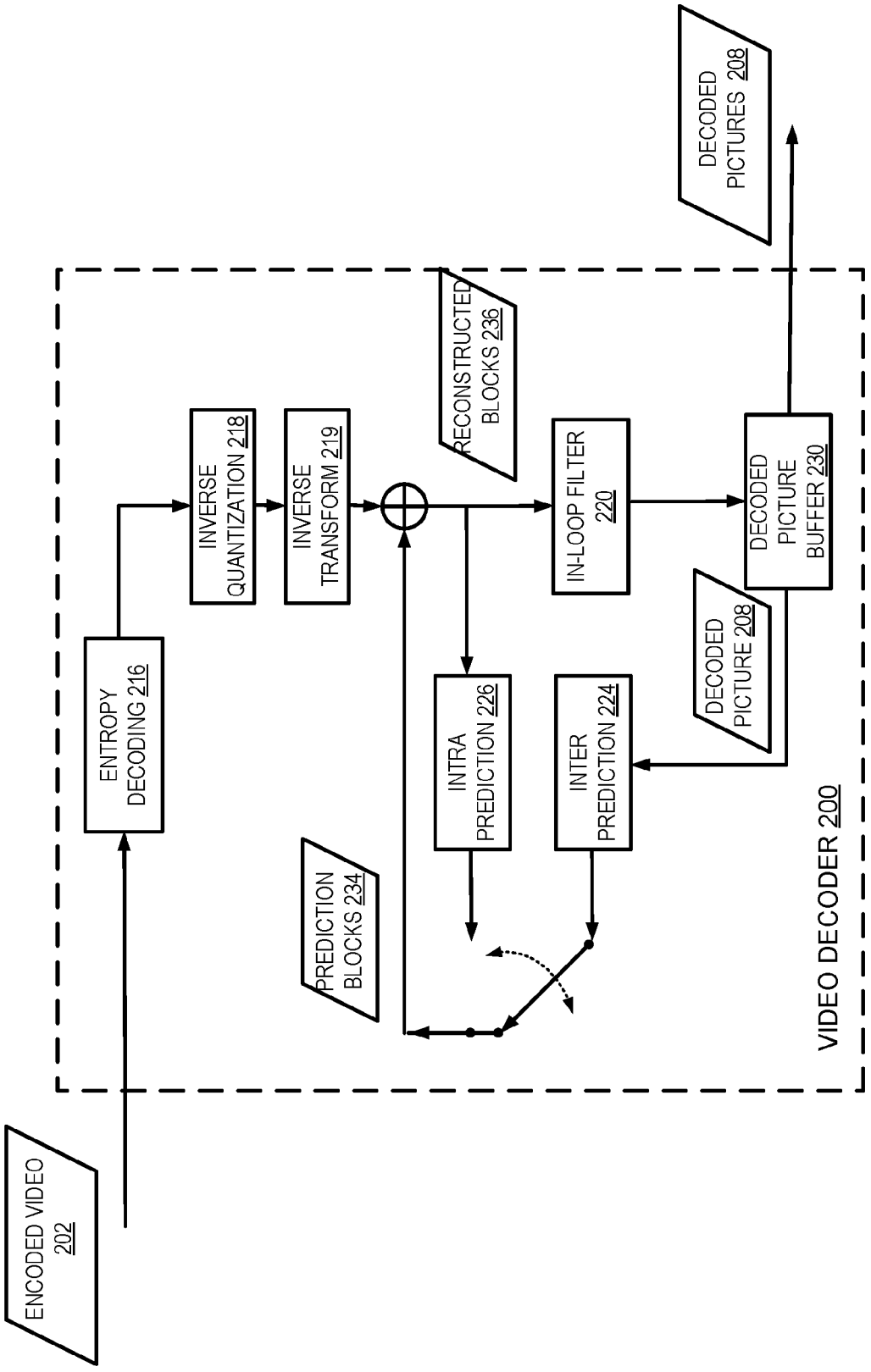

ENCODED VIDEO 202
VIDEO DECODER 200
ENTROPY DECODING 216
INVERSE QUANTIZATION 218
INVERSE TRANSFORM 219
RECONSTRUCTED BLOCKS 236
IN-LOOP FILTER 220
DECODED PICTURE BUFFER 230
DECODED PICTURES 208
INTRA PREDICTION 226
INTER PREDICTION 224
PREDICTION BLOCKS 234
DECODED PICTURE 208

FIG. 2

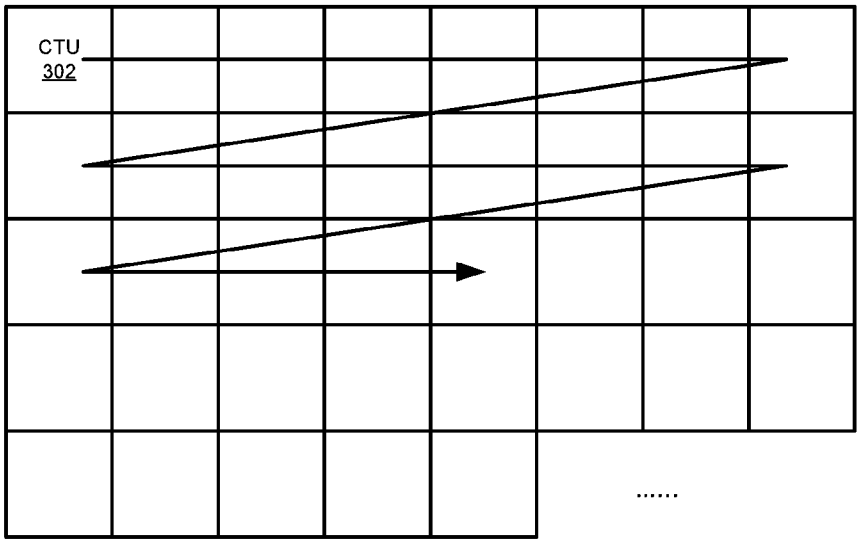


FIG. 3

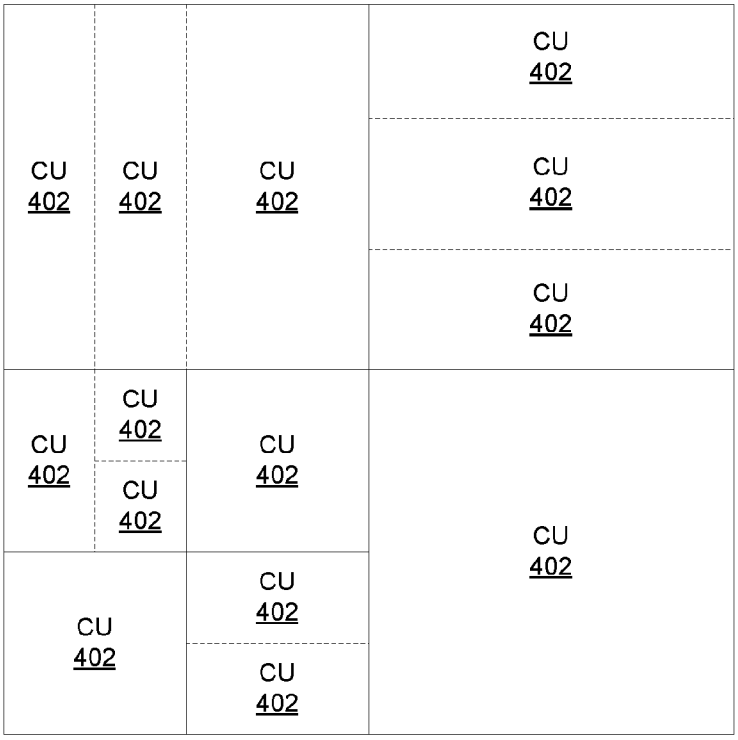


FIG. 4

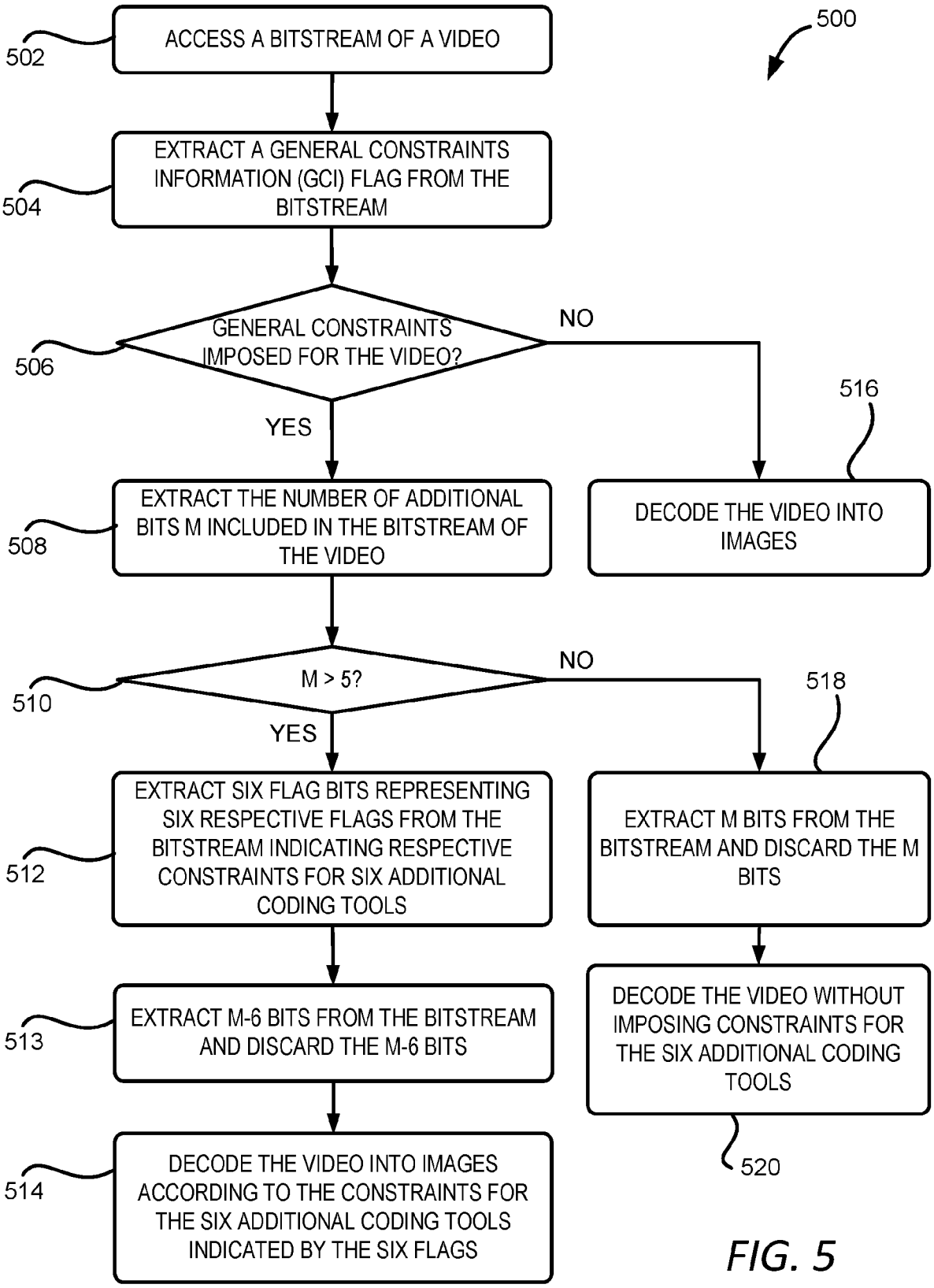

500
ACCESS A BITSTREAM OF A VIDEO
502
EXTRACT A GENERAL CONSTRAINTS INFORMATION (GCI) FLAG FROM THE BITSTREAM
504
GENERAL CONSTRAINTS IMPOSED FOR THE VIDEO?
506
NO
YES
516
DECODE THE VIDEO INTO IMAGES
EXTRACT THE NUMBER OF ADDITIONAL BITS M INCLUDED IN THE BITSTREAM OF THE VIDEO
508
M > 5?
510
NO
YES
518
EXTRACT SIX FLAG BITS REPRESENTING SIX RESPECTIVE FLAGS FROM THE BITSTREAM INDICATING RESPECTIVE CONSTRAINTS FOR SIX ADDITIONAL CODING TOOLS
512
EXTRACT M BITS FROM THE BITSTREAM AND DISCARD THE M BITS
EXTRACT M-6 BITS FROM THE BITSTREAM AND DISCARD THE M-6 BITS
513
DECODE THE VIDEO WITHOUT IMPOSING CONSTRAINTS FOR THE SIX ADDITIONAL CODING TOOLS
520
DECODE THE VIDEO INTO IMAGES ACCORDING TO THE CONSTRAINTS FOR THE SIX ADDITIONAL CODING TOOLS INDICATED BY THE SIX FLAGS
514

FIG. 5

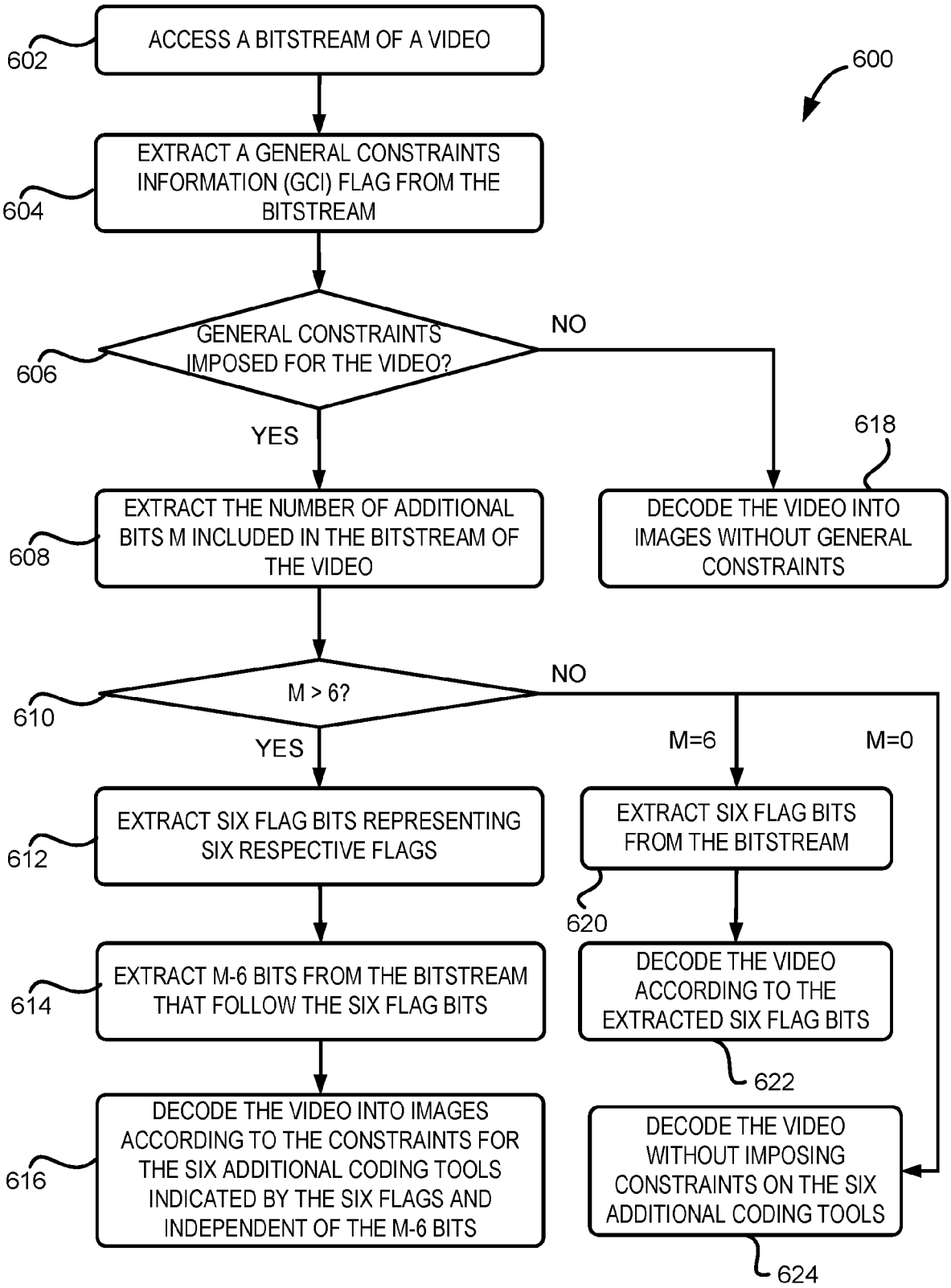

ACCESS A BITSTREAM OF A VIDEO
602
600
EXTRACT A GENERAL CONSTRAINTS INFORMATION (GCI) FLAG FROM THE BITSTREAM
604
GENERAL CONSTRAINTS IMPOSED FOR THE VIDEO?
606
NO
YES
618
EXTRACT THE NUMBER OF ADDITIONAL BITS M INCLUDED IN THE BITSTREAM OF THE VIDEO
608
DECODE THE VIDEO INTO IMAGES WITHOUT GENERAL CONSTRAINTS
M > 6?
610
NO
YES
M=6
M=0
EXTRACT SIX FLAG BITS REPRESENTING SIX RESPECTIVE FLAGS
612
EXTRACT SIX FLAG BITS FROM THE BITSTREAM
620
EXTRACT M-6 BITS FROM THE BITSTREAM THAT FOLLOW THE SIX FLAG BITS
614
DECODE THE VIDEO ACCORDING TO THE EXTRACTED SIX FLAG BITS
622
DECODE THE VIDEO INTO IMAGES ACCORDING TO THE CONSTRAINTS FOR THE SIX ADDITIONAL CODING TOOLS INDICATED BY THE SIX FLAGS AND INDEPENDENT OF THE M-6 BITS
616
DECODE THE VIDEO WITHOUT IMPOSING CONSTRAINTS ON THE SIX ADDITIONAL CODING TOOLS
624

FIG. 6

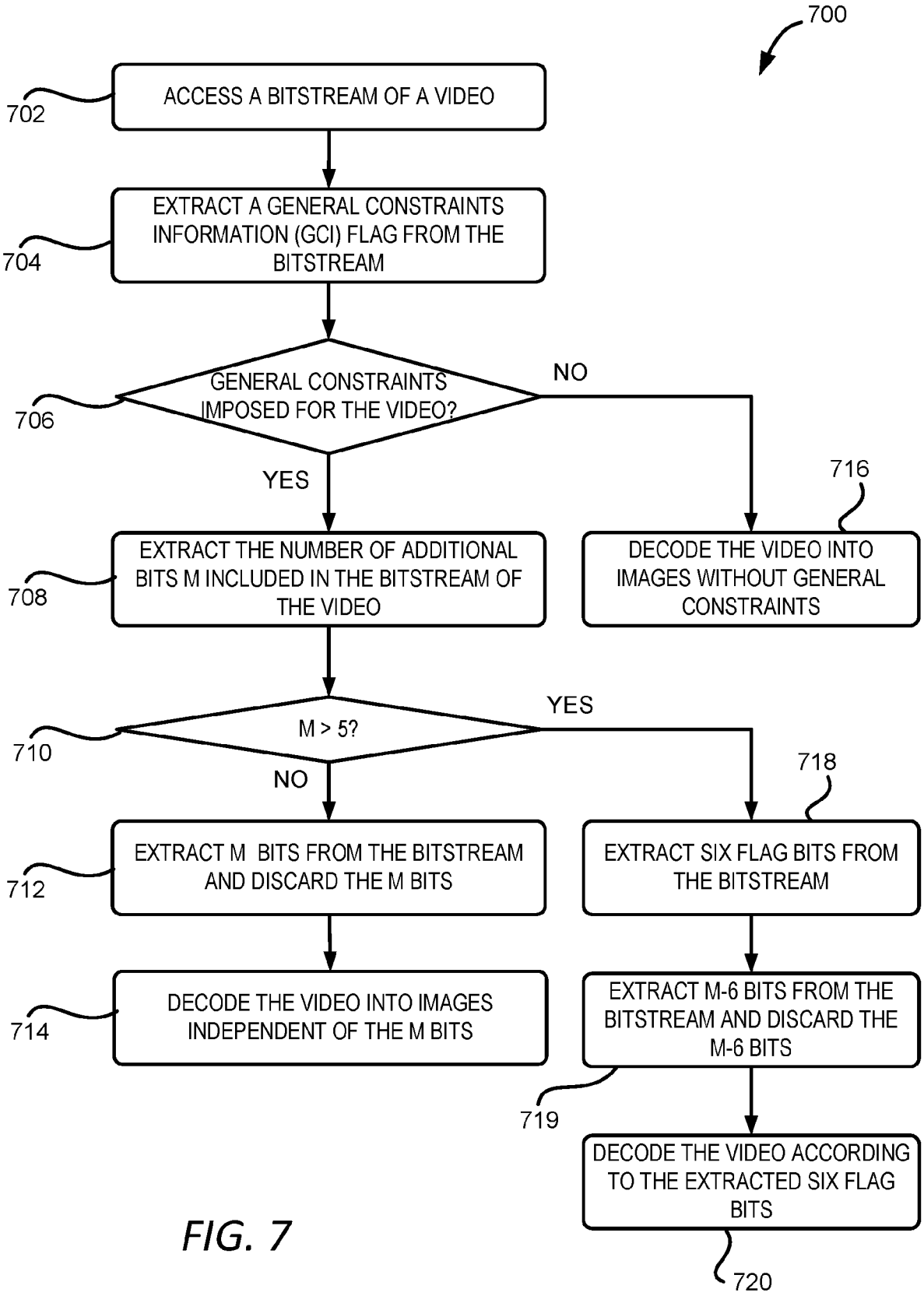

700
ACCESS A BITSTREAM OF A VIDEO
702
EXTRACT A GENERAL CONSTRAINTS INFORMATION (GCI) FLAG FROM THE BITSTREAM
704
GENERAL CONSTRAINTS IMPOSED FOR THE VIDEO?
706
NO
YES
716
DECODE THE VIDEO INTO IMAGES WITHOUT GENERAL CONSTRAINTS
EXTRACT THE NUMBER OF ADDITIONAL BITS M INCLUDED IN THE BITSTREAM OF THE VIDEO
708
M > 5?
710
YES
NO
718
EXTRACT M BITS FROM THE BITSTREAM AND DISCARD THE M BITS
712
EXTRACT SIX FLAG BITS FROM THE BITSTREAM
DECODE THE VIDEO INTO IMAGES INDEPENDENT OF THE M BITS
714
EXTRACT M-6 BITS FROM THE BITSTREAM AND DISCARD THE M-6 BITS
719
DECODE THE VIDEO ACCORDING TO THE EXTRACTED SIX FLAG BITS
720

FIG. 7

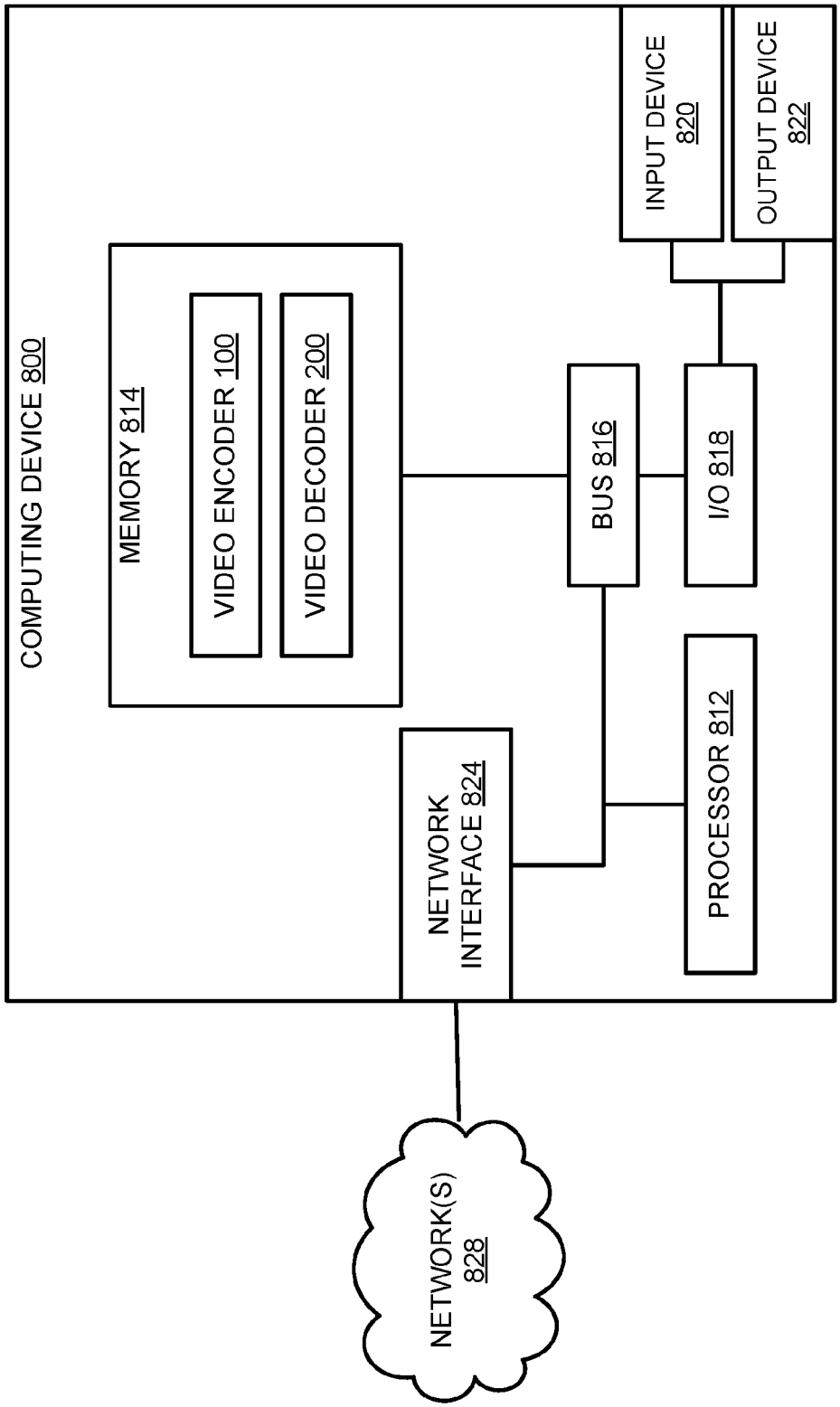

COMPUTING DEVICE 800
MEMORY 814
VIDEO ENCODER 100
VIDEO DECODER 200
BUS 816
I/O 818
INPUT DEVICE 820
OUTPUT DEVICE 822
NETWORK INTERFACE 824
PROCESSOR 812
NETWORK(S) 828

FIG. 8