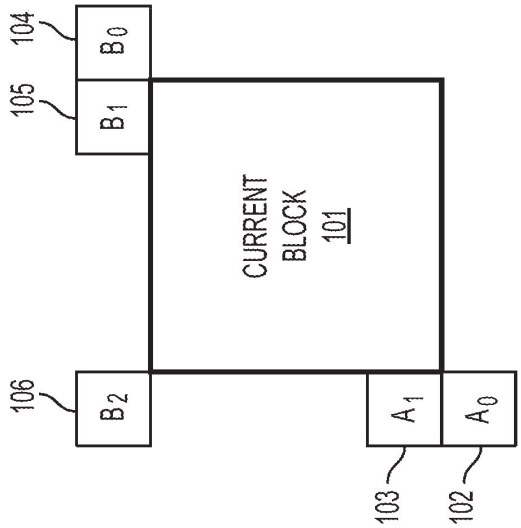


FIG. 1
(Related Art)

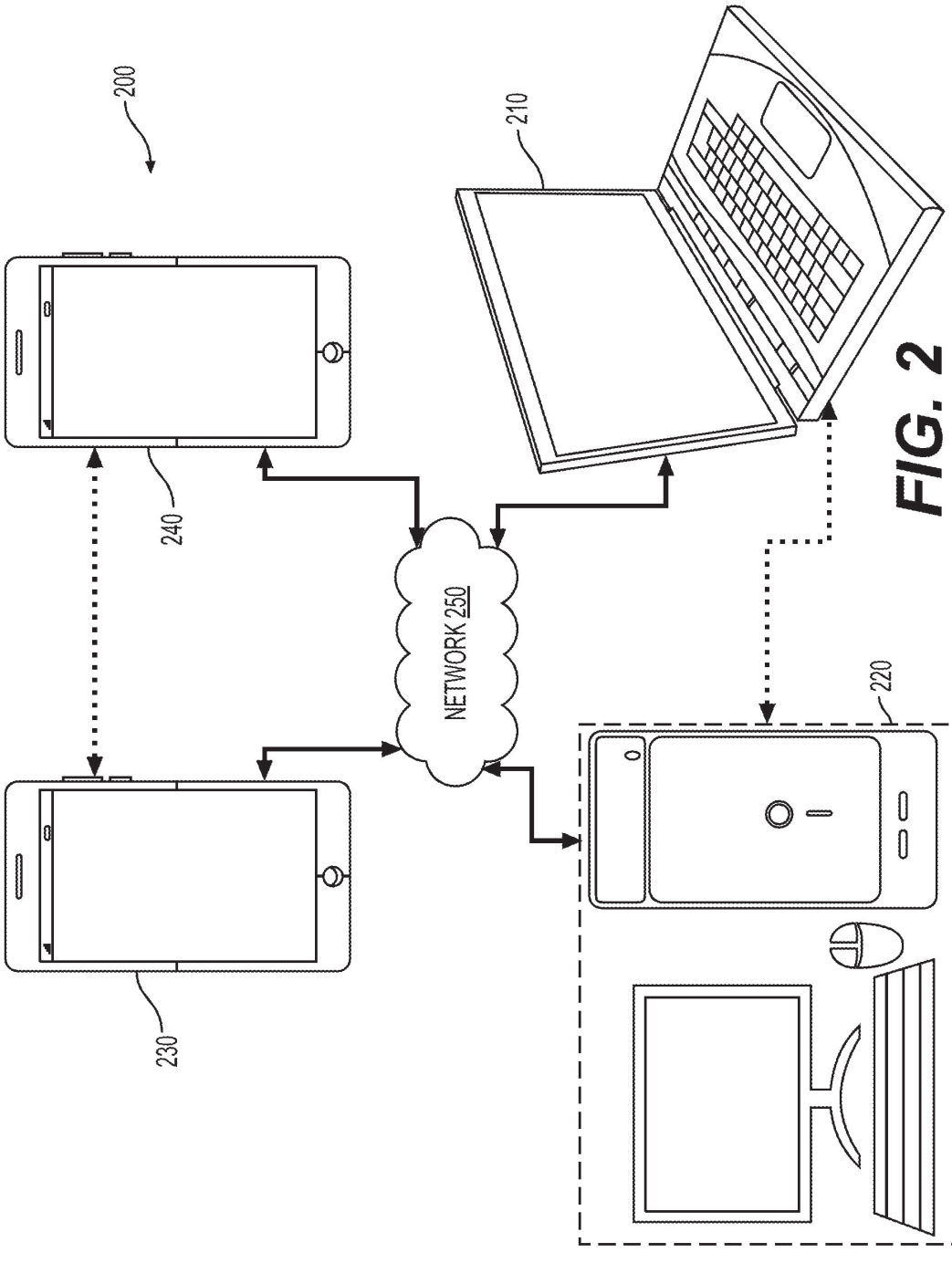


FIG. 2

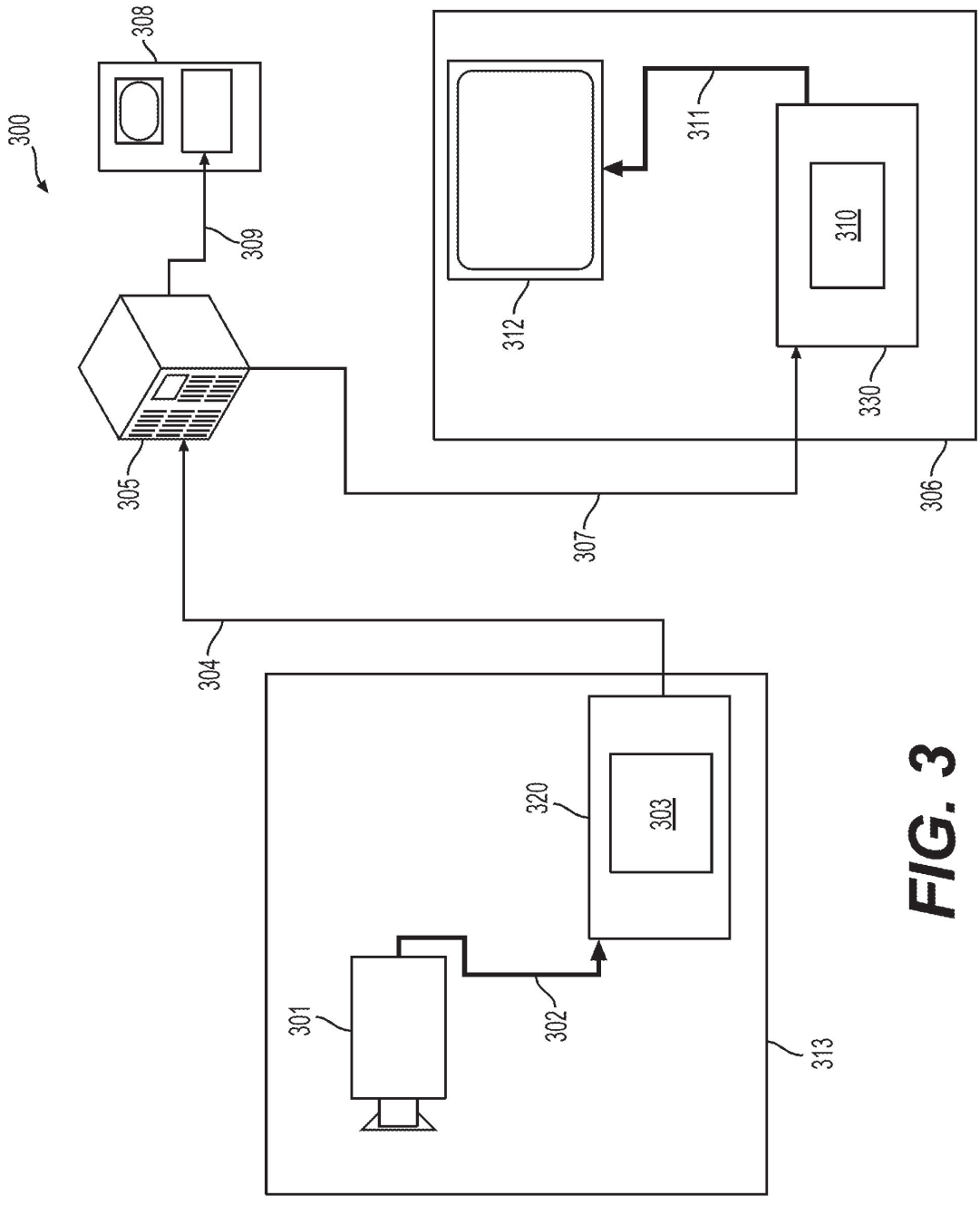


FIG. 3

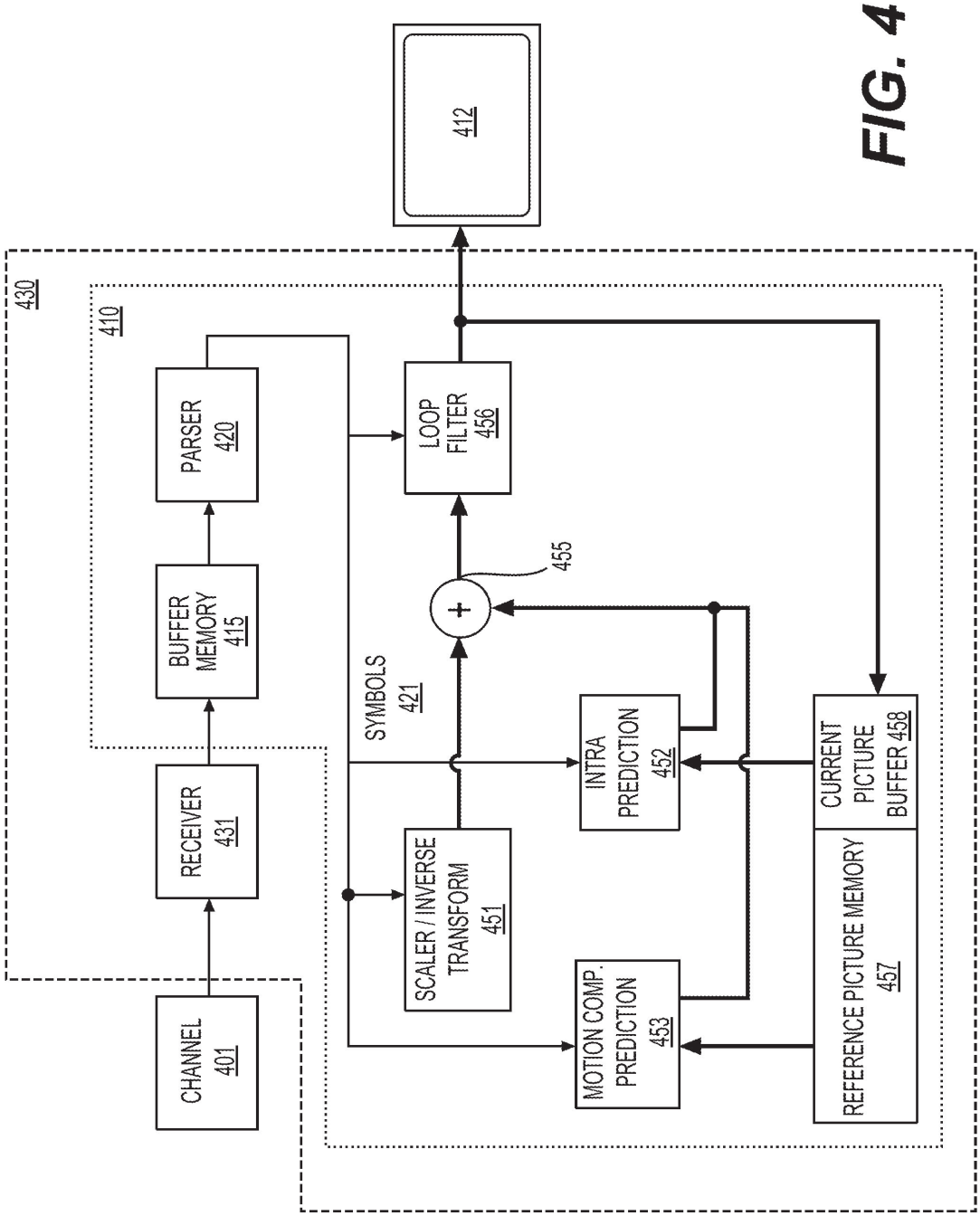

412
430
410
PARSER 420
BUFFER MEMORY 415
RECEIVER 431
CHANNEL 401
LOOP FILTER 456
455
+
SYMBOLS 421
SCALER / INVERSE TRANSFORM 451
INTRA PREDICTION 452
MOTION COMP. PREDICTION 453
CURRENT PICTURE BUFFER 458
REFERENCE PICTURE MEMORY 457

FIG. 4

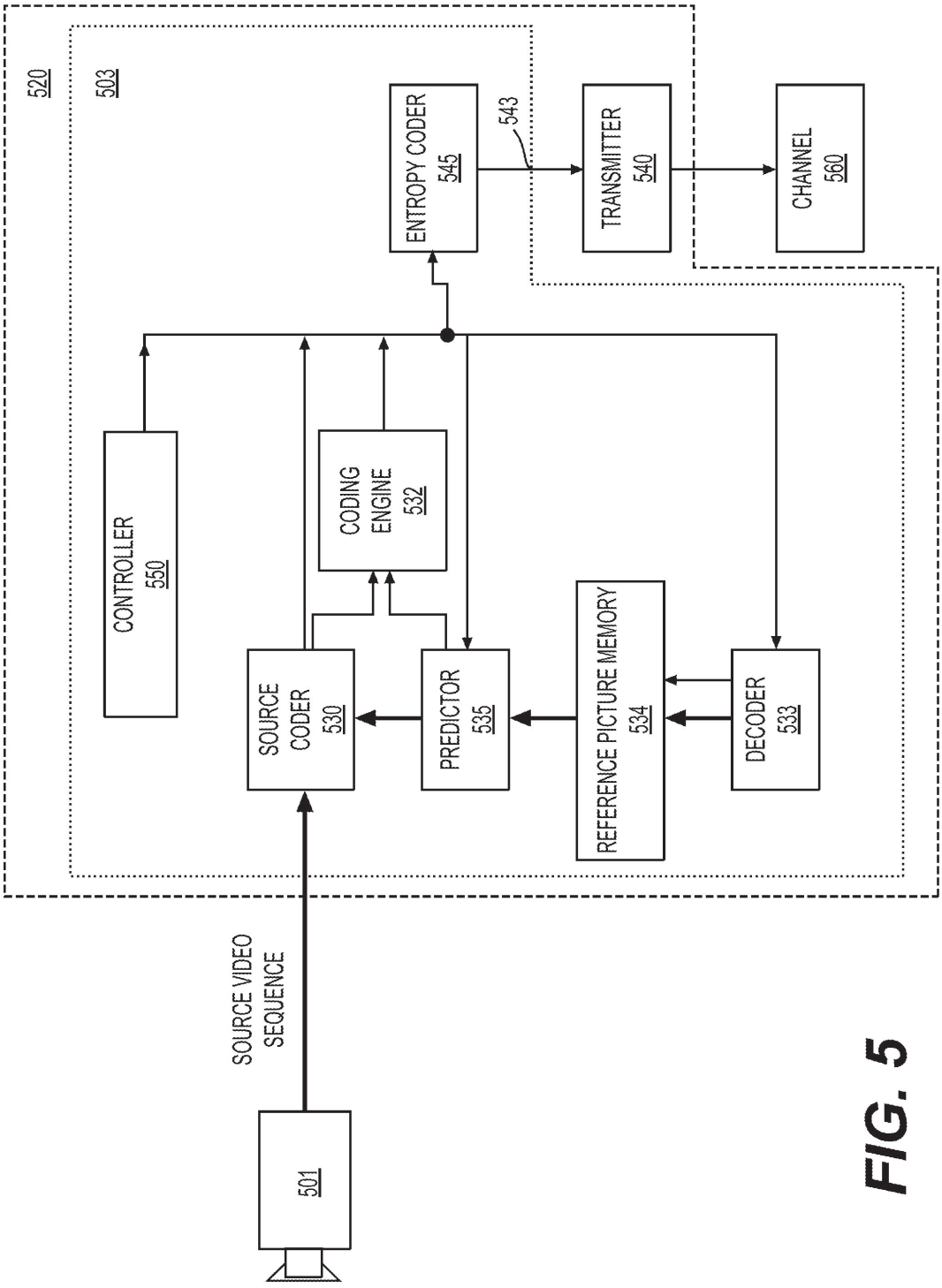

520
503
ENTROPY CODER
545
543
TRANSMITTER
540
CHANNEL
560
CONTROLLER
550
CODING
ENGINE
532
SOURCE
CODER
530
PREDICTOR
535
REFERENCE PICTURE MEMORY
534
DECODER
533
SOURCE VIDEO
SEQUENCE
501

FIG. 5

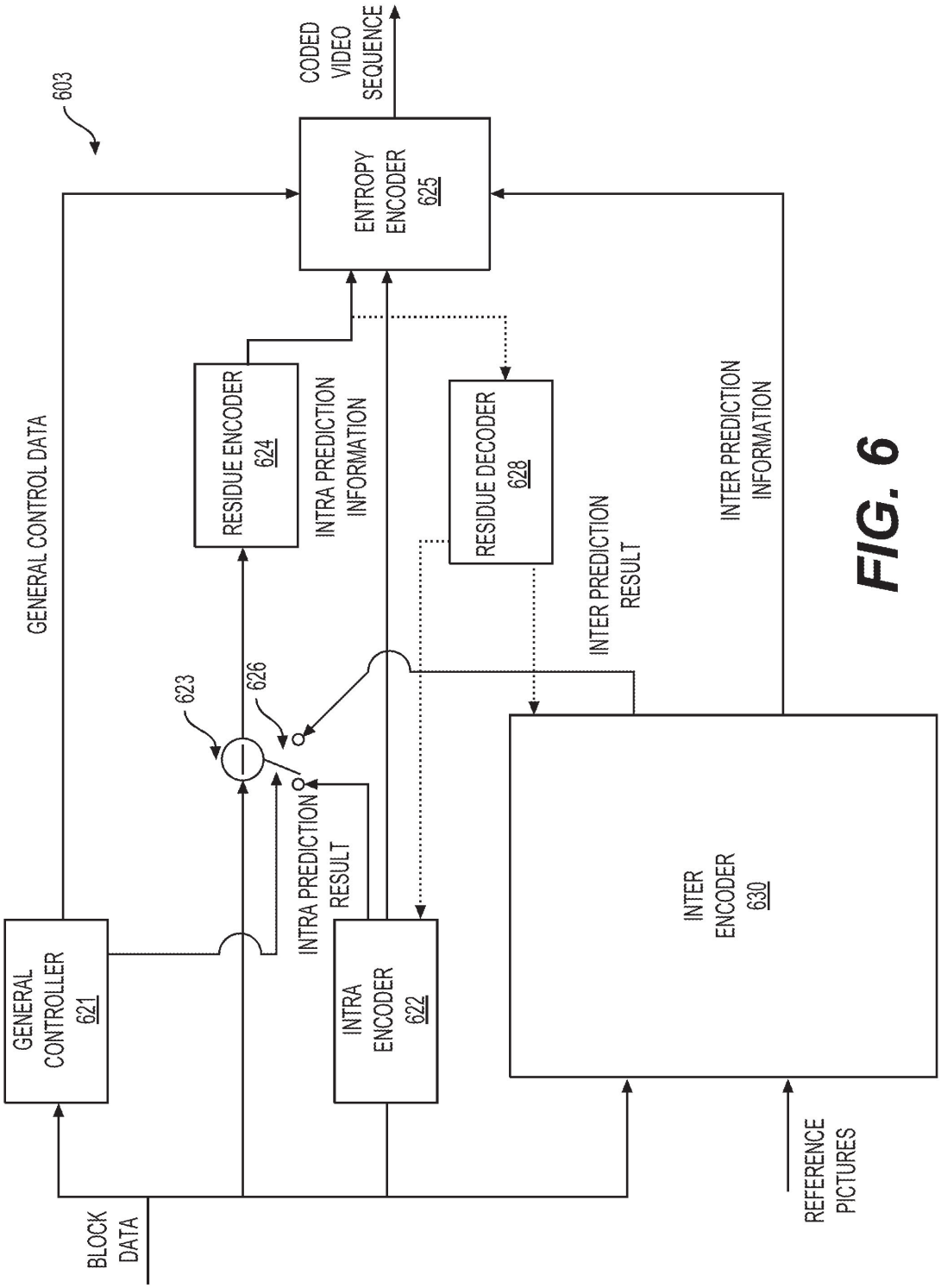

603
CODED VIDEO SEQUENCE
ENTROPY ENCODER 625
GENERAL CONTROL DATA
RESIDUE ENCODER 624
INTRA PREDICTION INFORMATION
RESIDUE DECODER 628
INTER PREDICTION RESULT
INTER PREDICTION INFORMATION
623
626
INTRA PREDICTION RESULT
GENERAL CONTROLLER 621
INTRA ENCODER 622
INTER ENCODER 630
BLOCK DATA
REFERENCE PICTURES

FIG. 6

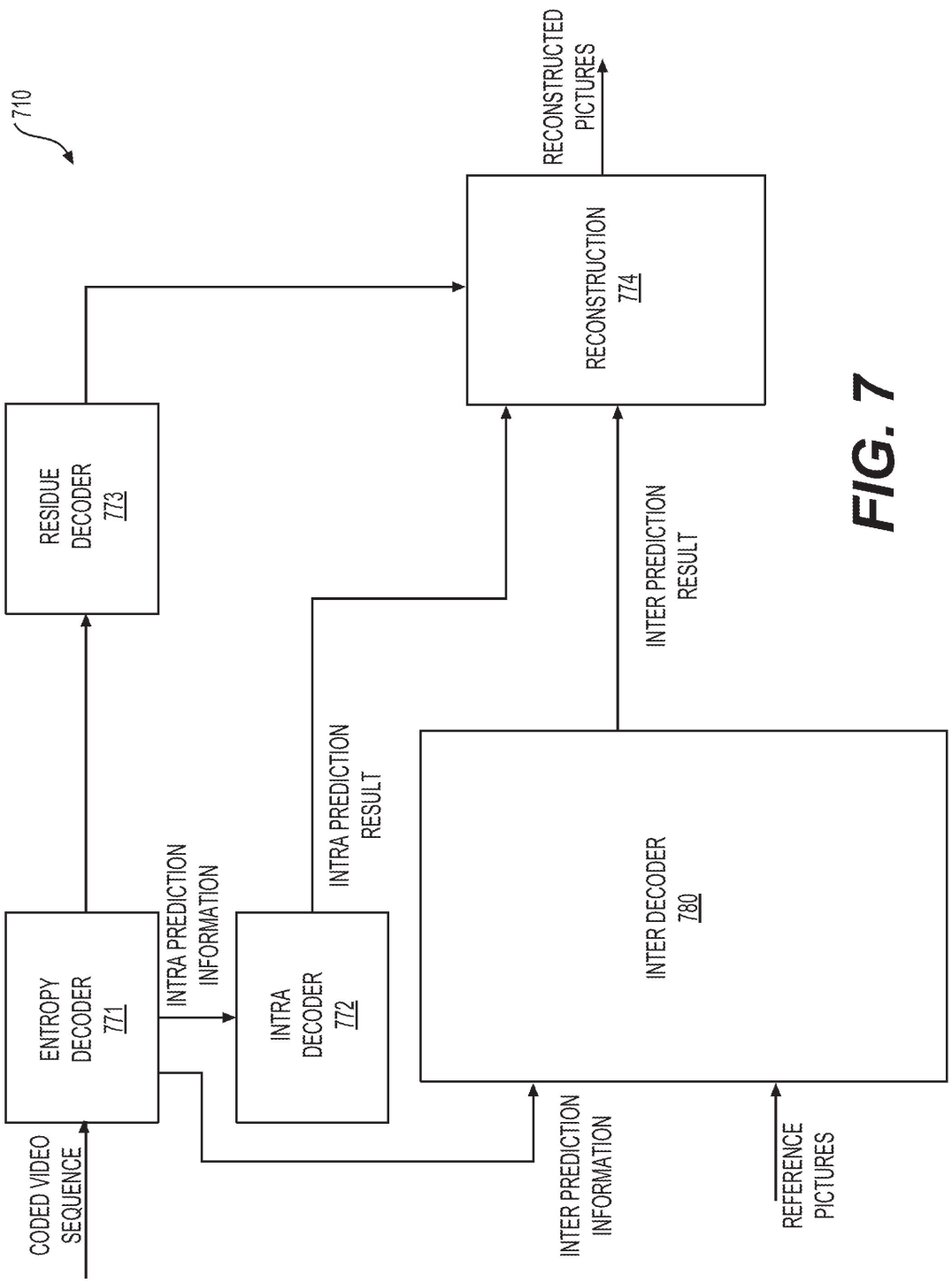

710
CODED VIDEO SEQUENCE
ENTROPY DECODER 771
INTRA PREDICTION INFORMATION
INTRA DECODER 772
INTRA PREDICTION RESULT
RESIDUE DECODER 773
INTER PREDICTION INFORMATION
INTER DECODER 780
REFERENCE PICTURES
INTER PREDICTION RESULT
RECONSTRUCTION 774
RECONSTRUCTED PICTURES

FIG. 7

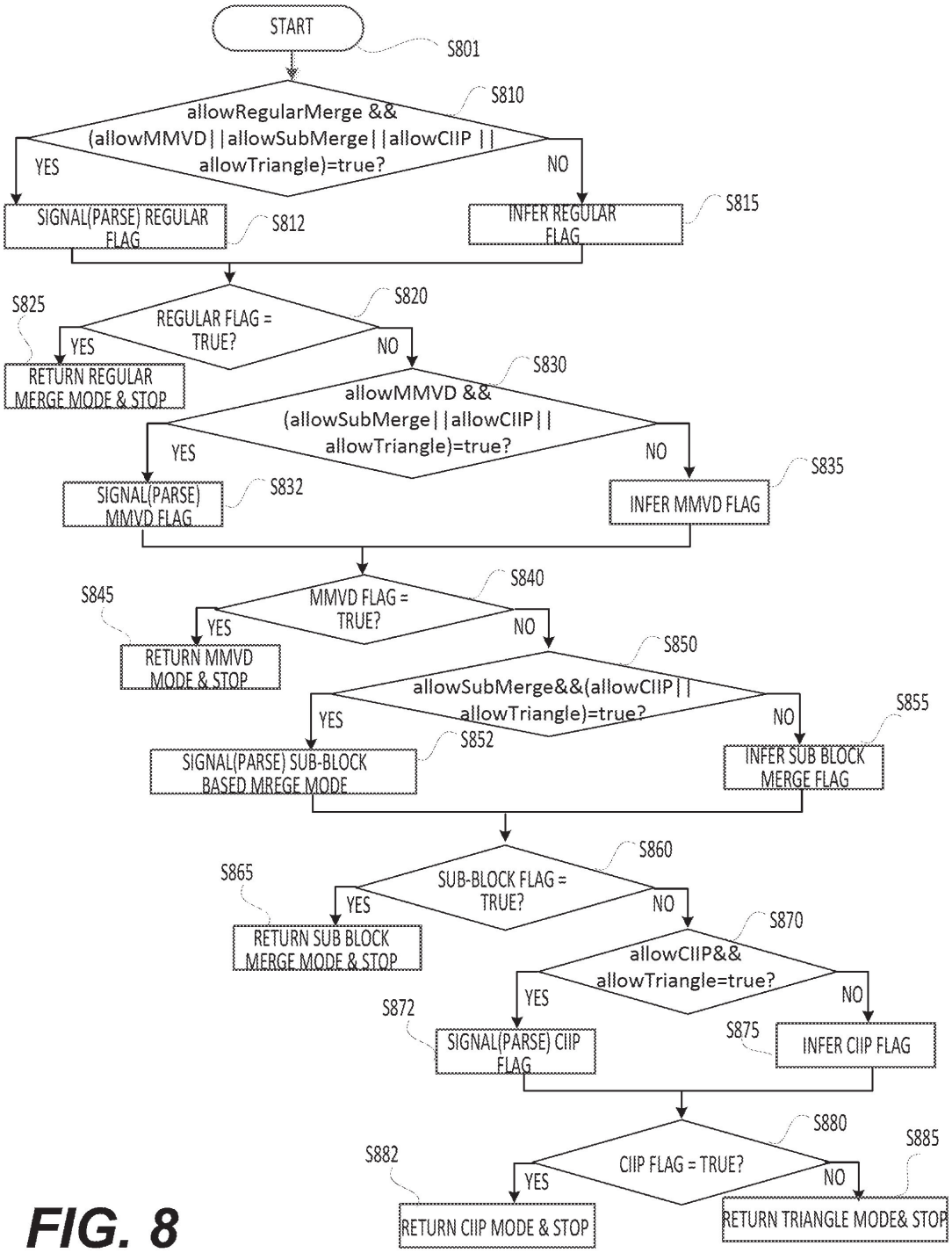

START
S801
allowRegularMerge && (allowMMVD||allowSubMerge||allowCIIP || allowTriangle)=true?
S810
YES
NO
SIGNAL(PARSE) REGULAR FLAG
S812
INFER REGULAR FLAG
S815
REGULAR FLAG = TRUE?
S820
S825
YES
NO
RETURN REGULAR MERGE MODE & STOP
allowMMVD && (allowSubMerge||allowCIIP|| allowTriangle)=true?
S830
YES
NO
SIGNAL(PARSE) MMVD FLAG
S832
INFER MMVD FLAG
S835
MMVD FLAG = TRUE?
S840
S845
YES
NO
RETURN MMVD MODE & STOP
allowSubMerge&&(allowCIIP|| allowTriangle)=true?
S850
YES
NO
SIGNAL(PARSE) SUB-BLOCK BASED MREGE MODE
S852
INFER SUB BLOCK MERGE FLAG
S855
SUB-BLOCK FLAG = TRUE?
S860
S865
YES
NO
RETURN SUB BLOCK MERGE MODE & STOP
allowCIIP&& allowTriangle=true?
S870
YES
NO
SIGNAL(PARSE) CIIP FLAG
S872
INFER CIIP FLAG
S875
CIIP FLAG = TRUE?
S880
S882
S885
YES
NO
RETURN CIIP MODE & STOP
RETURN TRIANGLE MODE& STOP

FIG. 8

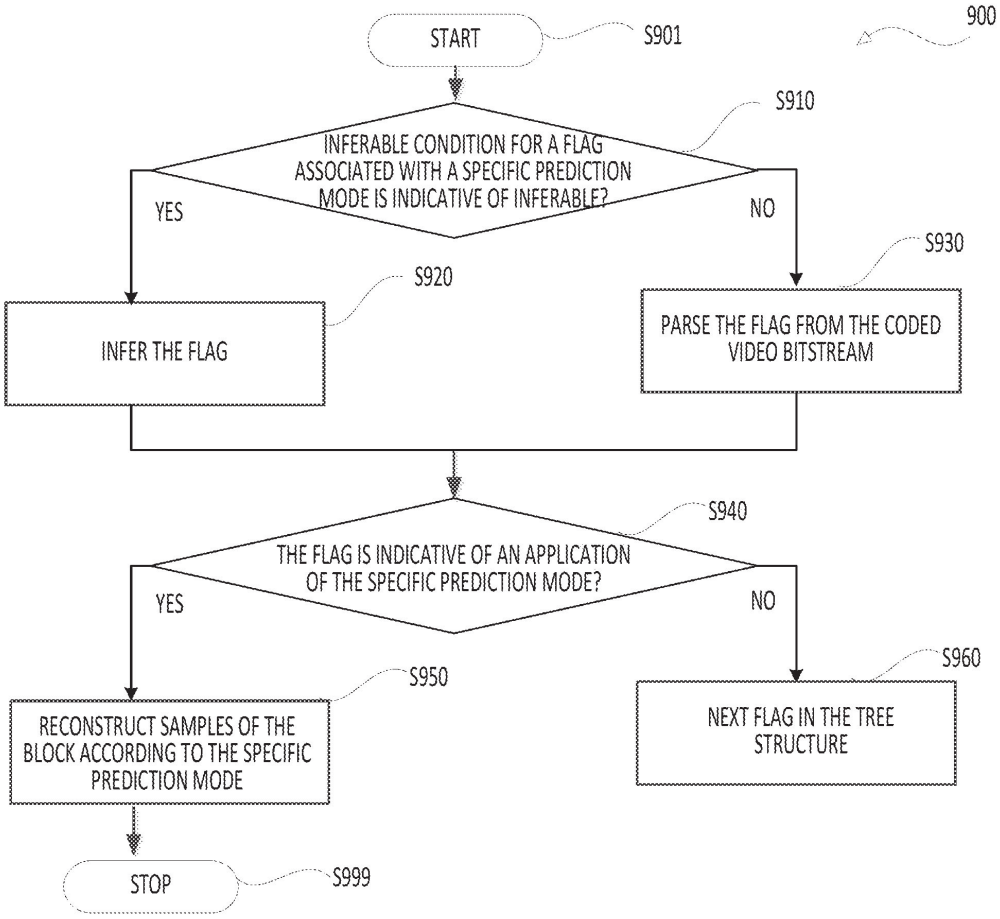

900
START
S901
S910
INFERABLE CONDITION FOR A FLAG ASSOCIATED WITH A SPECIFIC PREDICTION MODE IS INDICATIVE OF INFERABLE?
YES
NO
S920
INFER THE FLAG
S930
PARSE THE FLAG FROM THE CODED VIDEO BITSTREAM
S940
THE FLAG IS INDICATIVE OF AN APPLICATION OF THE SPECIFIC PREDICTION MODE?
YES
NO
S950
RECONSTRUCT SAMPLES OF THE BLOCK ACCORDING TO THE SPECIFIC PREDICTION MODE
S960
NEXT FLAG IN THE TREE STRUCTURE
STOP
S999

FIG. 9

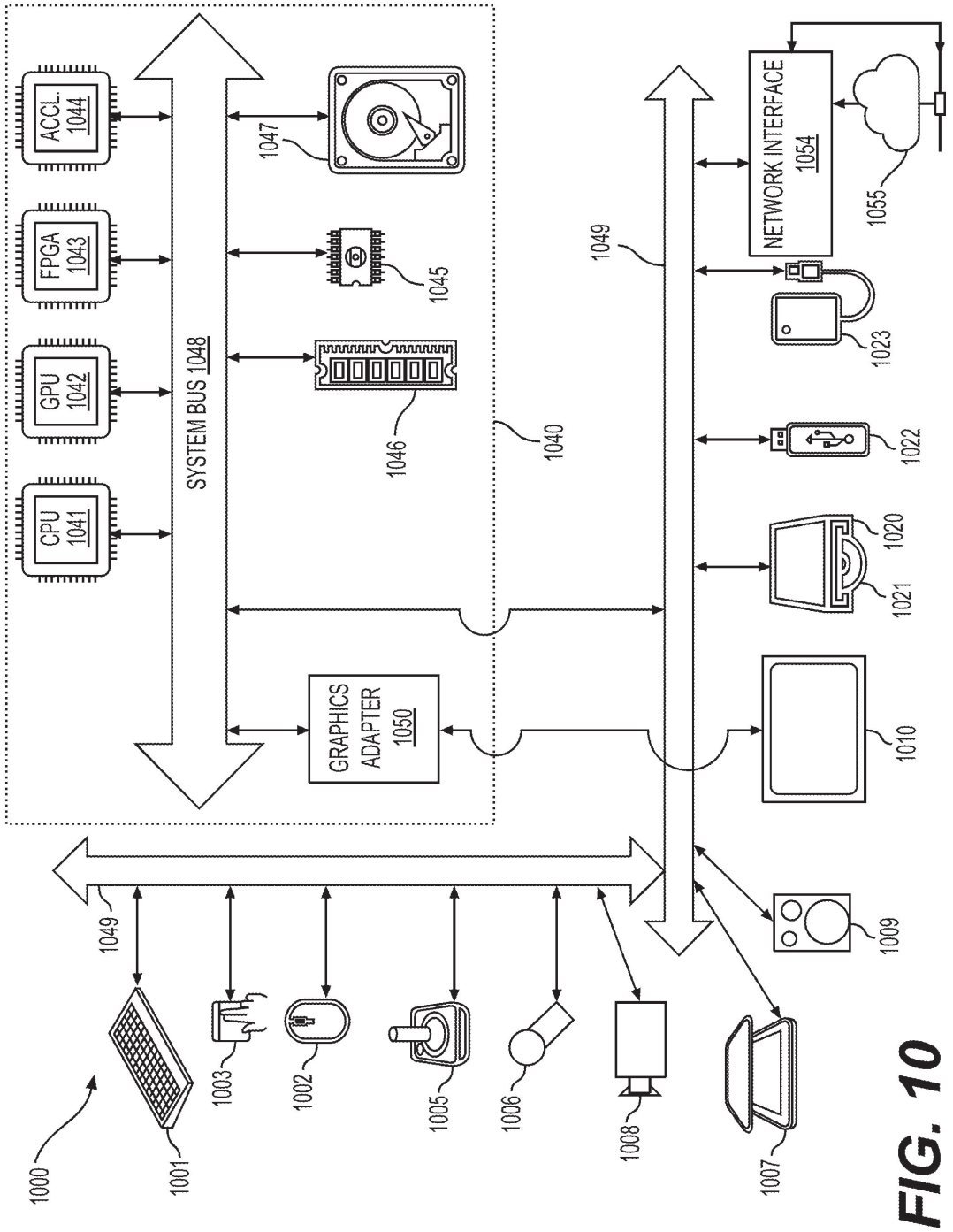

ACCL. 1044
FPGA 1043
GPU 1042
CPU 1041
SYSTEM BUS 1048
1047
1045
1046
1040
GRAPHICS ADAPTER 1050
1049
NETWORK INTERFACE 1054
1055
1023
1022
1020
1021
1010
1009
1000
1001
1003
1002
1005
1006
1008
1007

FIG. 10