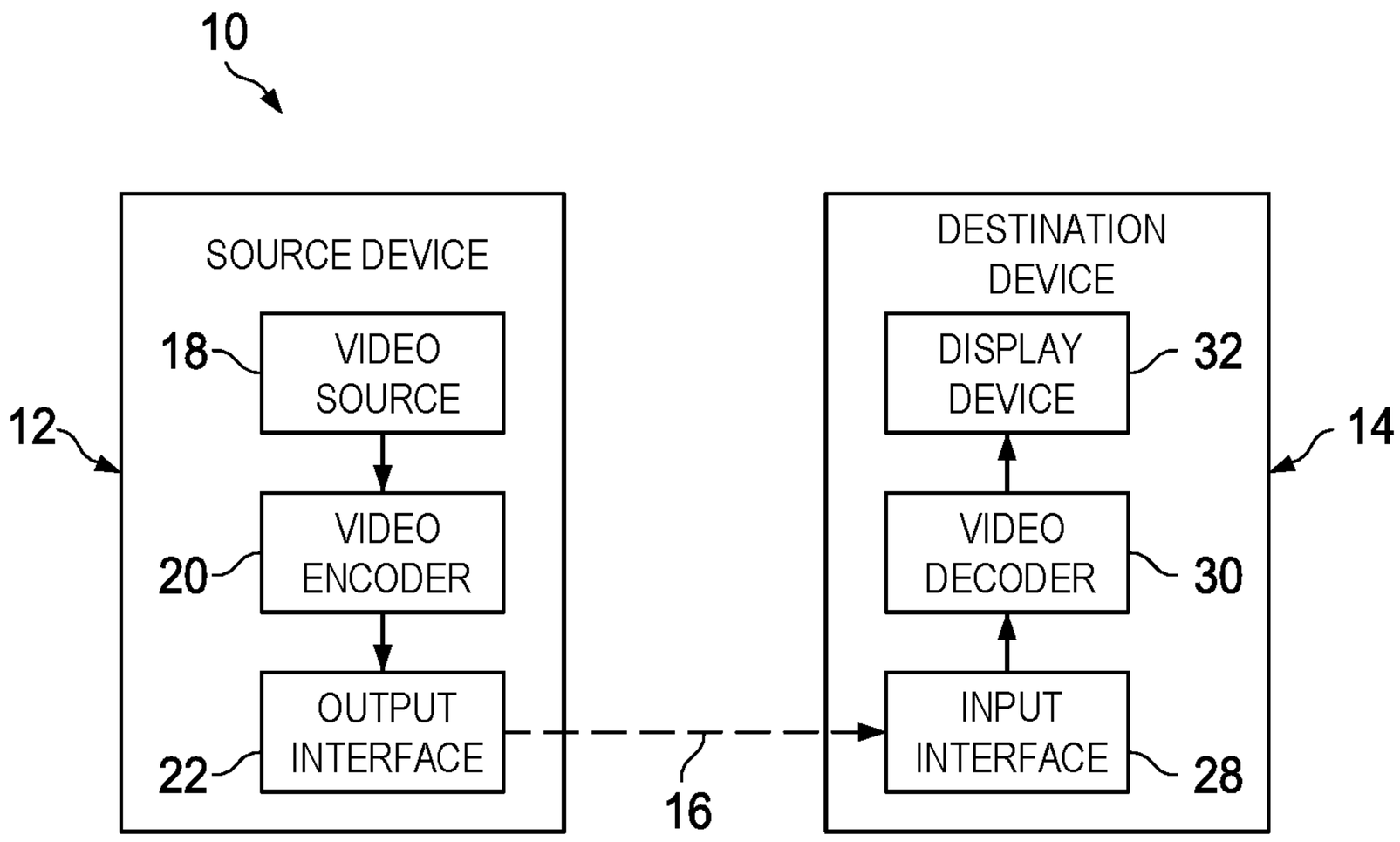
10
SOURCE DEVICE
12
18
VIDEO SOURCE
20
VIDEO ENCODER
22
OUTPUT INTERFACE
16
DESTINATION DEVICE
14
32
DISPLAY DEVICE
30
VIDEO DECODER
28
INPUT INTERFACE

FIG. 1

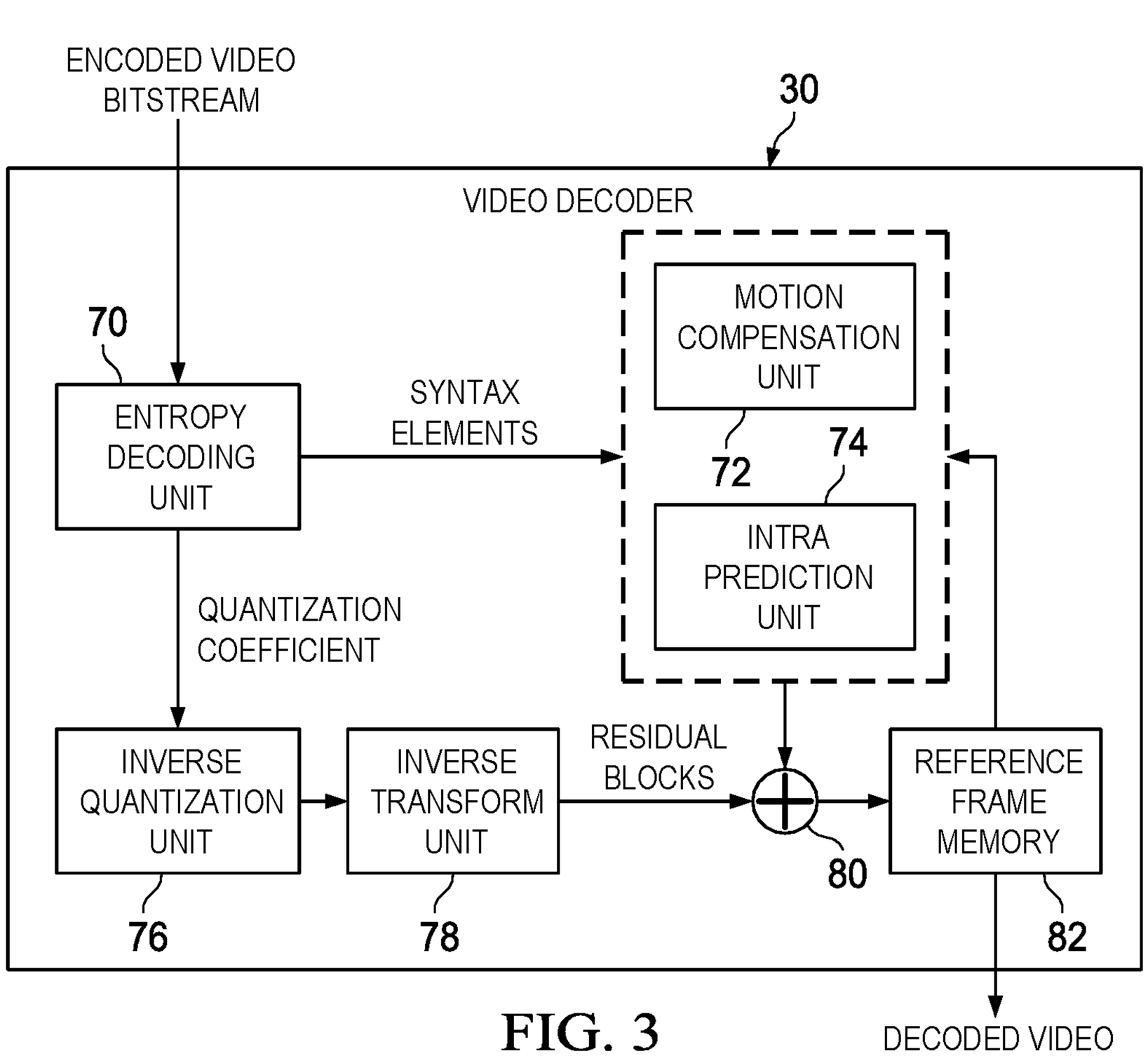
ENCODED VIDEO BITSTREAM
30
VIDEO DECODER
70
ENTROPY DECODING UNIT
SYNTAX ELEMENTS
MOTION COMPENSATION UNIT
72
74
INTRA PREDICTION UNIT
QUANTIZATION COEFFICIENT
INVERSE QUANTIZATION UNIT
INVERSE TRANSFORM UNIT
RESIDUAL BLOCKS
80
REFERENCE FRAME MEMORY
76
78
82
DECODED VIDEO

FIG. 3

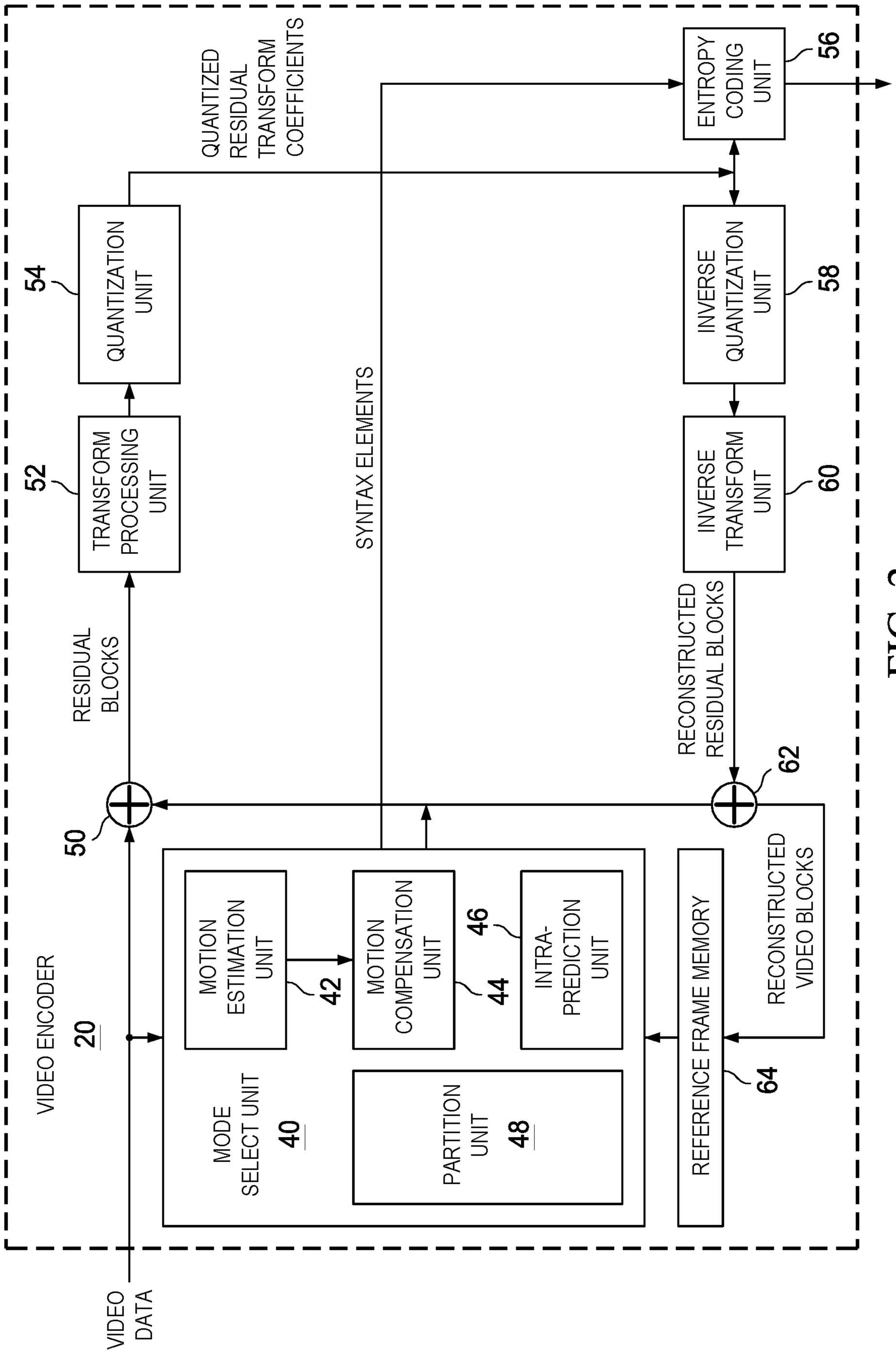
VIDEO ENCODER
20
VIDEO DATA
MODE SELECT UNIT
40
MOTION ESTIMATION UNIT
42
MOTION COMPENSATION UNIT
44
INTRA-PREDICTION UNIT
46
PARTITION UNIT
48
50
RESIDUAL BLOCKS
TRANSFORM PROCESSING UNIT
52
QUANTIZATION UNIT
54
QUANTIZED RESIDUAL TRANSFORM COEFFICIENTS
ENTROPY CODING UNIT
56
SYNTAX ELEMENTS
INVERSE QUANTIZATION UNIT
58
INVERSE TRANSFORM UNIT
60
RECONSTRUCTED RESIDUAL BLOCKS
62
RECONSTRUCTED VIDEO BLOCKS
REFERENCE FRAME MEMORY
64

FIG. 2

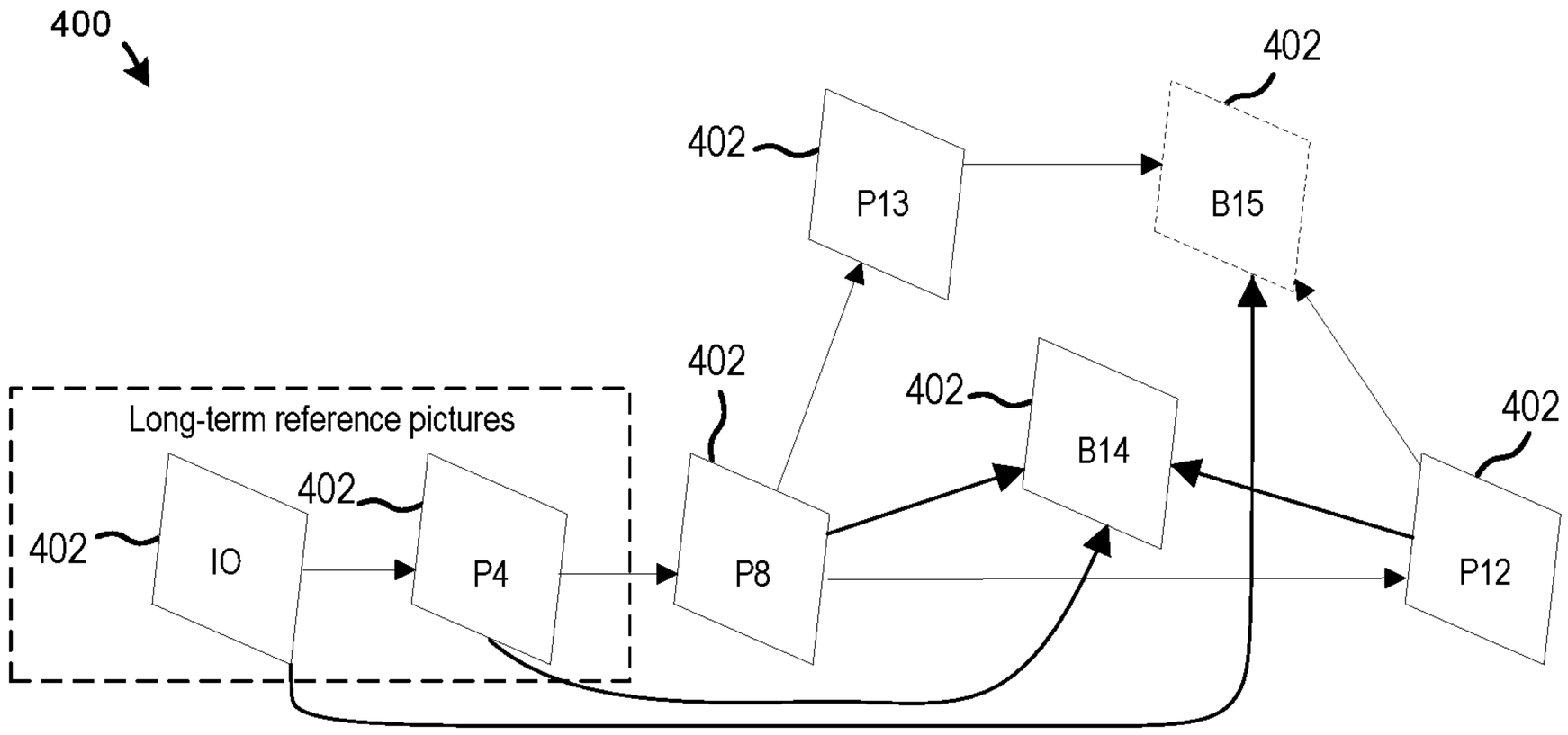
400
402
402
P13
B15
402
402
B14
402
Long-term reference pictures
402
402
IO
P4
P8
P12

FIG. 4

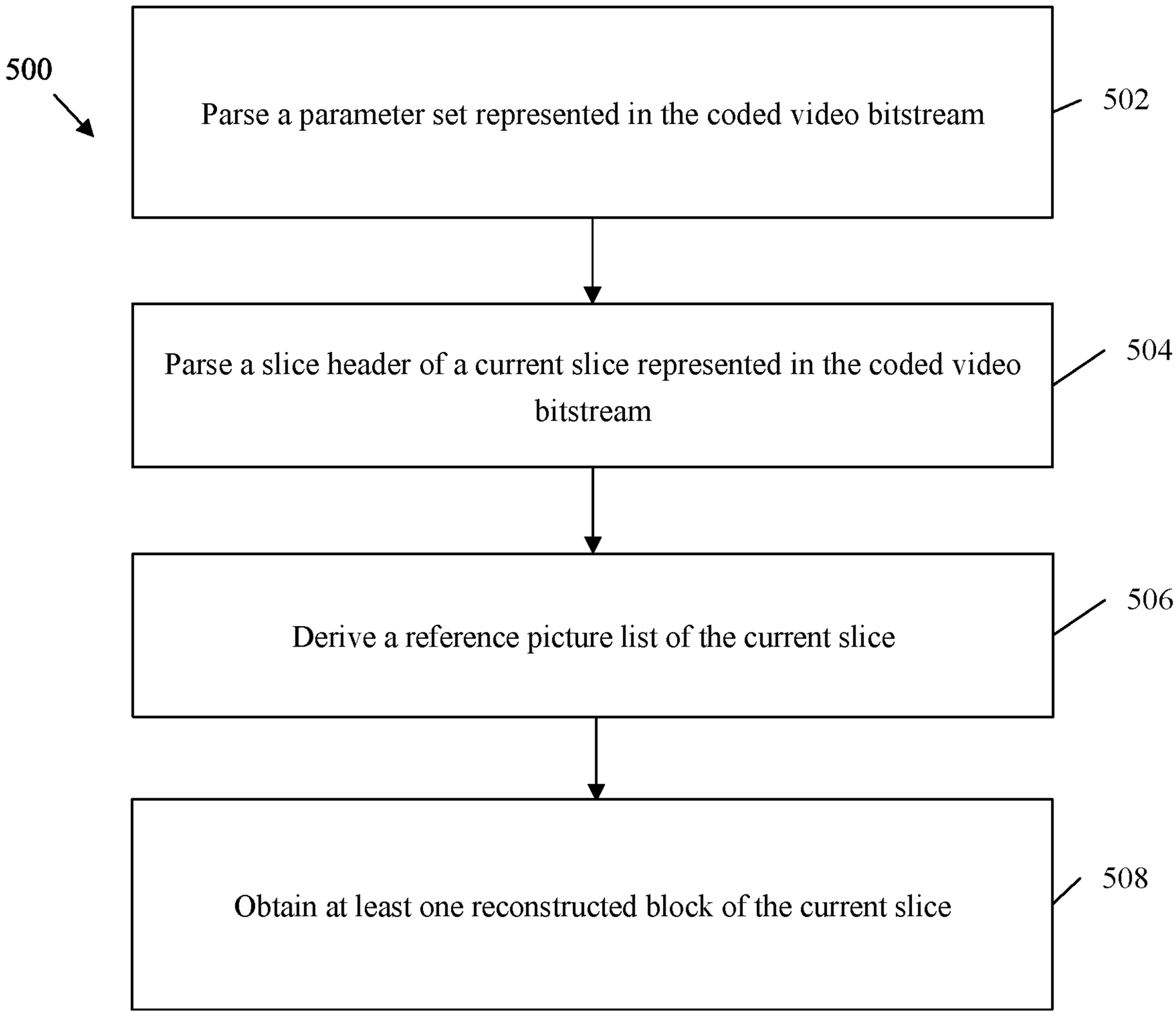
500
Parse a parameter set represented in the coded video bitstream
502
Parse a slice header of a current slice represented in the coded video bitstream
504
Derive a reference picture list of the current slice
506
Obtain at least one reconstructed block of the current slice
508

FIG. 5

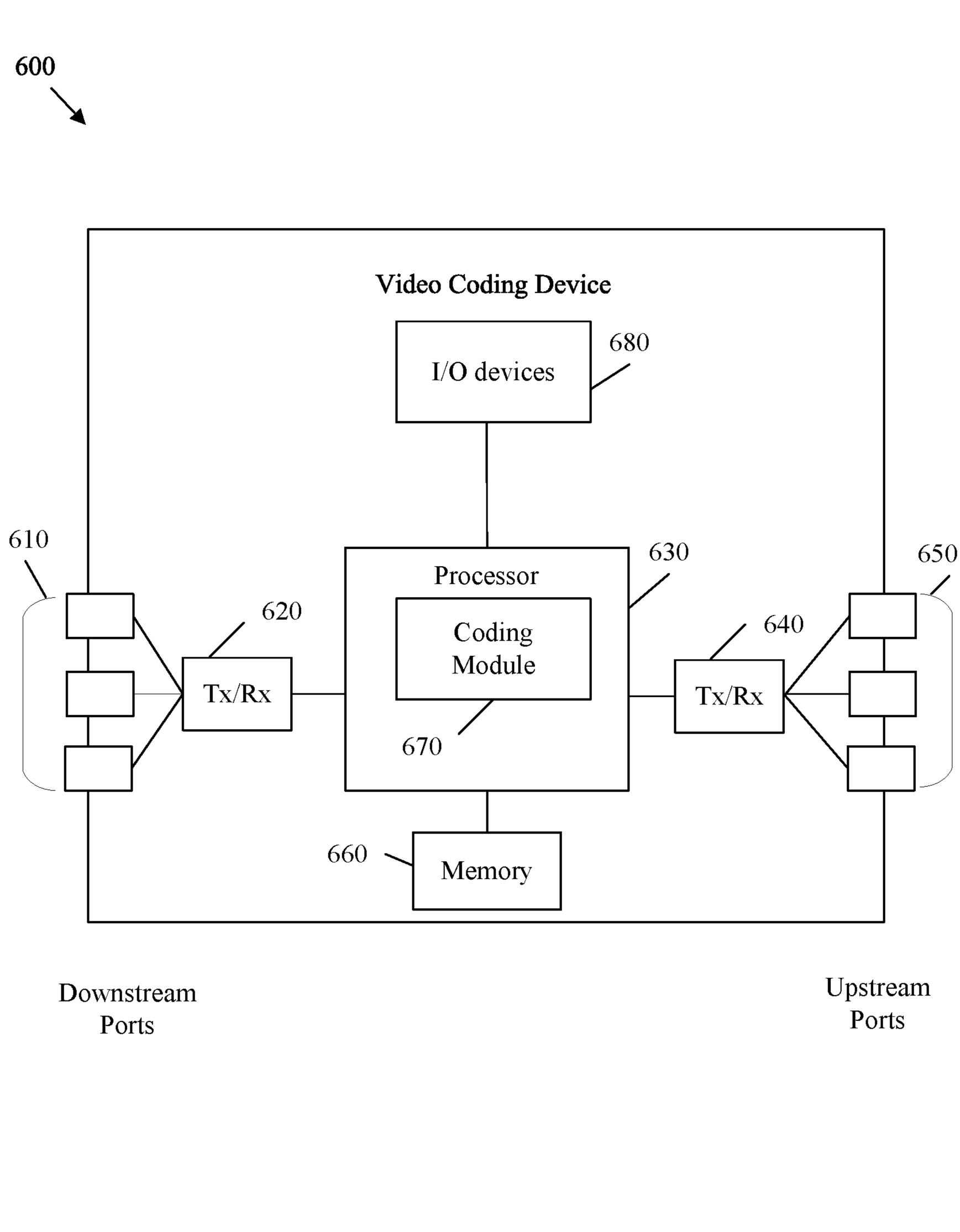
600
Video Coding Device
I/O devices
680
610
630
650
Processor
620
Coding Module
640
Tx/Rx
Tx/Rx
670
660
Memory
Downstream Ports
Upstream Ports

FIG. 6

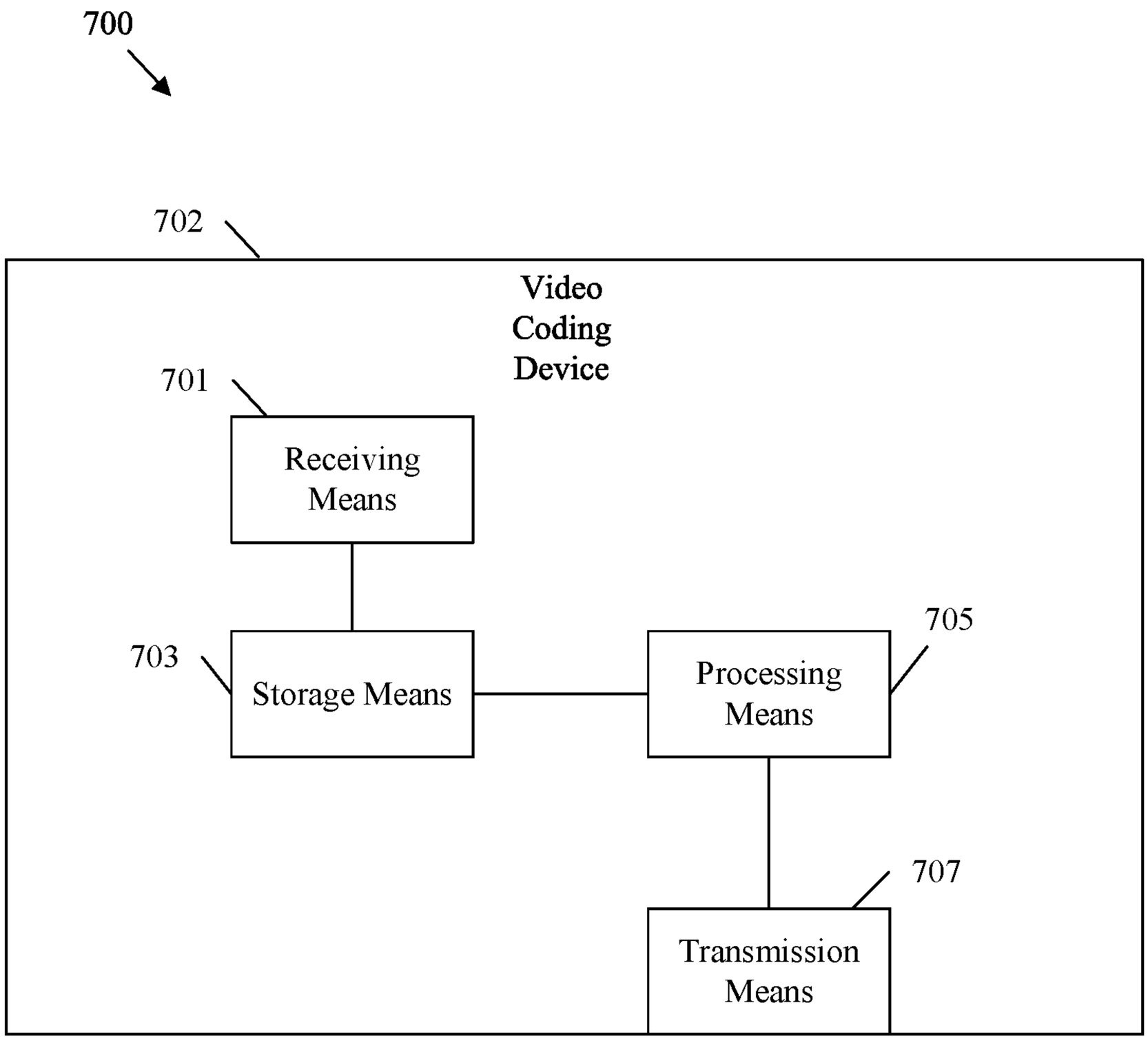
700
702
Video Coding Device
701
Receiving Means
703
Storage Means
705
Processing Means
707
Transmission Means

FIG. 7