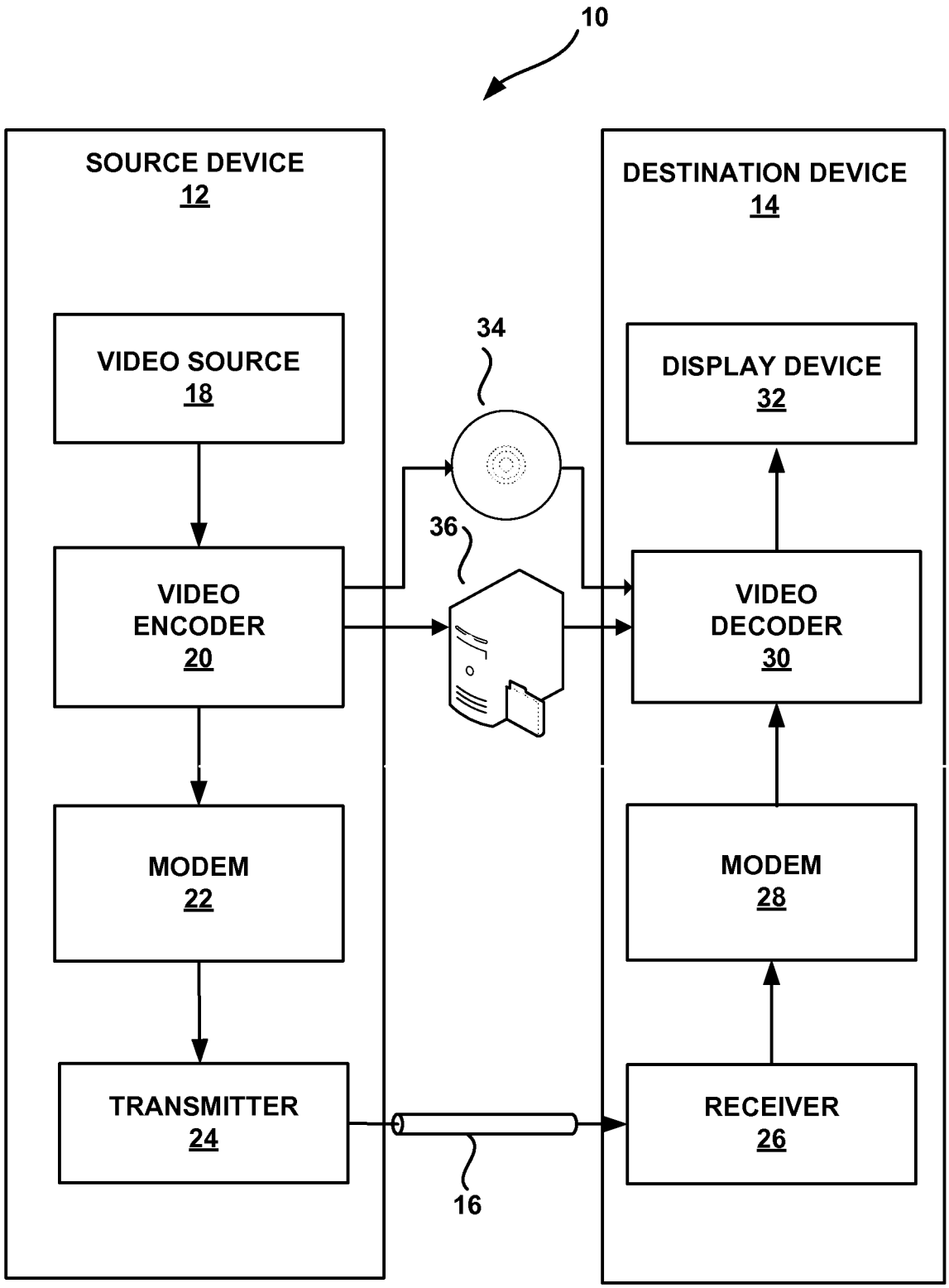

10
SOURCE DEVICE
12
DESTINATION DEVICE
14
VIDEO SOURCE
18
34
DISPLAY DEVICE
32
36
VIDEO
ENCODER
20
VIDEO
DECODER
30
MODEM
22
MODEM
28
TRANSMITTER
24
RECEIVER
26
16

FIG. 1

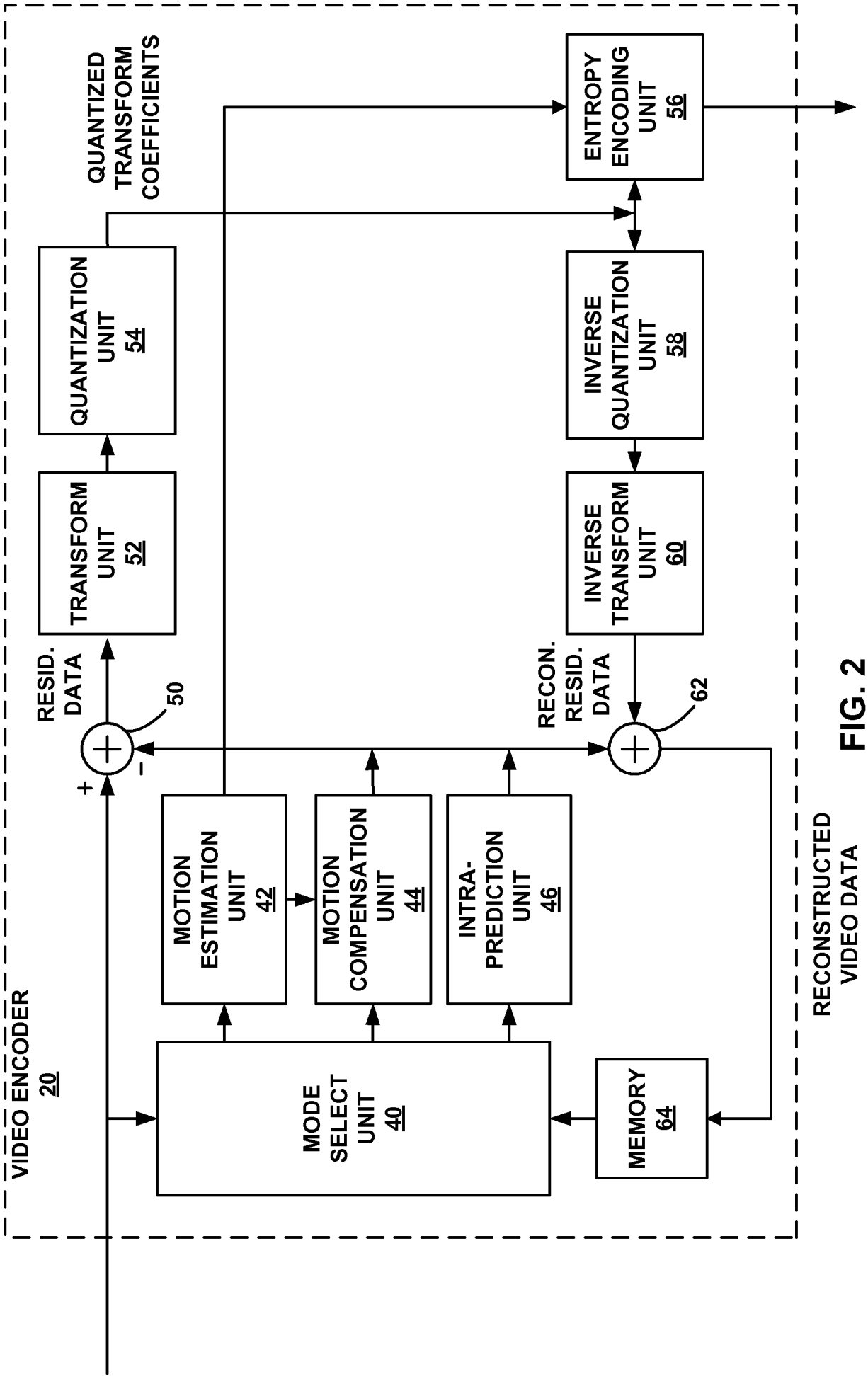

VIDEO ENCODER
20
MODE SELECT UNIT
40
MOTION ESTIMATION UNIT
42
MOTION COMPENSATION UNIT
44
INTRA-PREDICTION UNIT
46
MEMORY
64
RESID. DATA
50
+
-
TRANSFORM UNIT
52
QUANTIZATION UNIT
54
QUANTIZED TRANSFORM COEFFICIENTS
ENTROPY ENCODING UNIT
56
INVERSE QUANTIZATION UNIT
58
INVERSE TRANSFORM UNIT
60
RECON. RESID. DATA
62
RECONSTRUCTED VIDEO DATA

FIG. 2

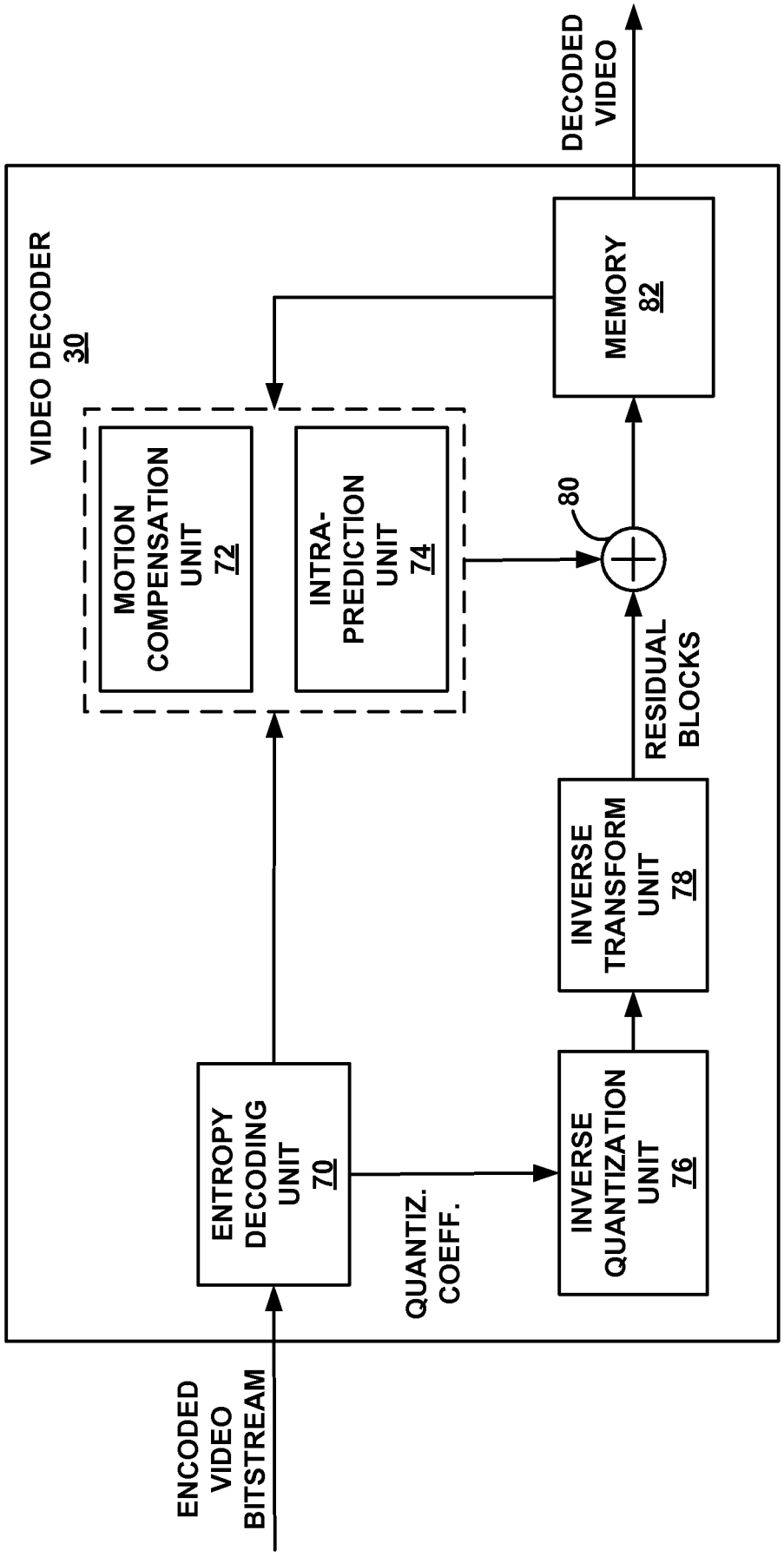

ENCODED VIDEO BITSTREAM
VIDEO DECODER 30
ENTROPY DECODING UNIT 70
QUANTIZ. COEFF.
INVERSE QUANTIZATION UNIT 76
INVERSE TRANSFORM UNIT 78
RESIDUAL BLOCKS
80
MOTION COMPENSATION UNIT 72
INTRA-PREDICTION UNIT 74
MEMORY 82
DECODED VIDEO

FIG. 3

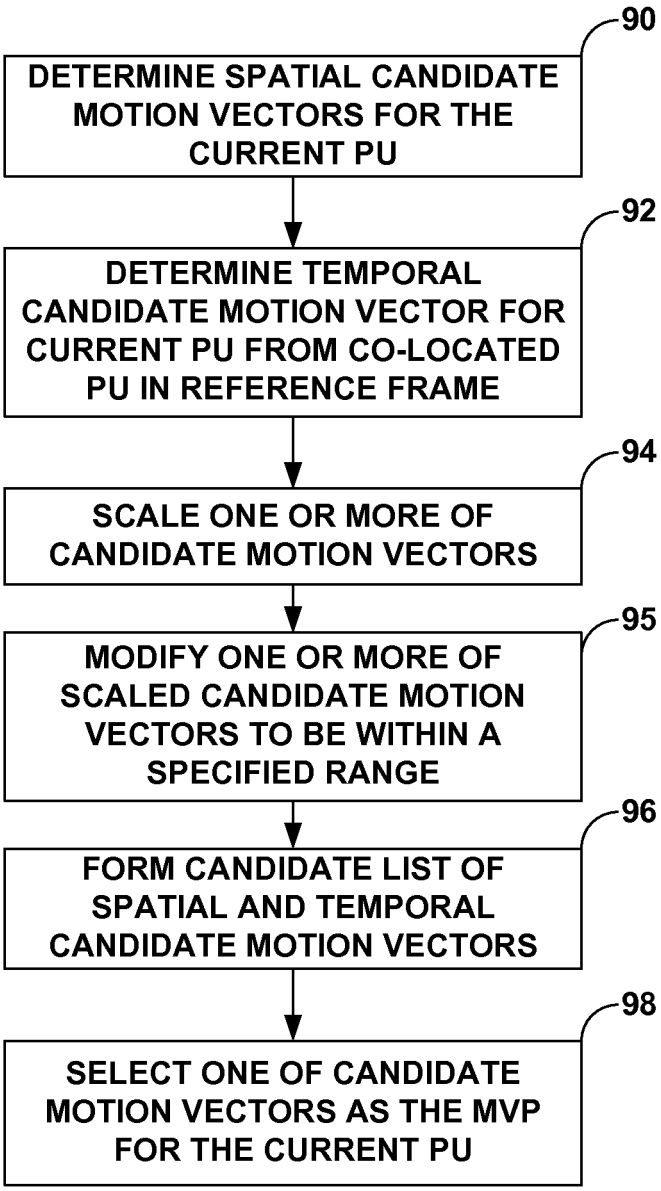

90
DETERMINE SPATIAL CANDIDATE MOTION VECTORS FOR THE CURRENT PU
92
DETERMINE TEMPORAL CANDIDATE MOTION VECTOR FOR CURRENT PU FROM CO-LOCATED PU IN REFERENCE FRAME
94
SCALE ONE OR MORE OF CANDIDATE MOTION VECTORS
95
MODIFY ONE OR MORE OF SCALED CANDIDATE MOTION VECTORS TO BE WITHIN A SPECIFIED RANGE
96
FORM CANDIDATE LIST OF SPATIAL AND TEMPORAL CANDIDATE MOTION VECTORS
98
SELECT ONE OF CANDIDATE MOTION VECTORS AS THE MVP FOR THE CURRENT PU

FIG. 4

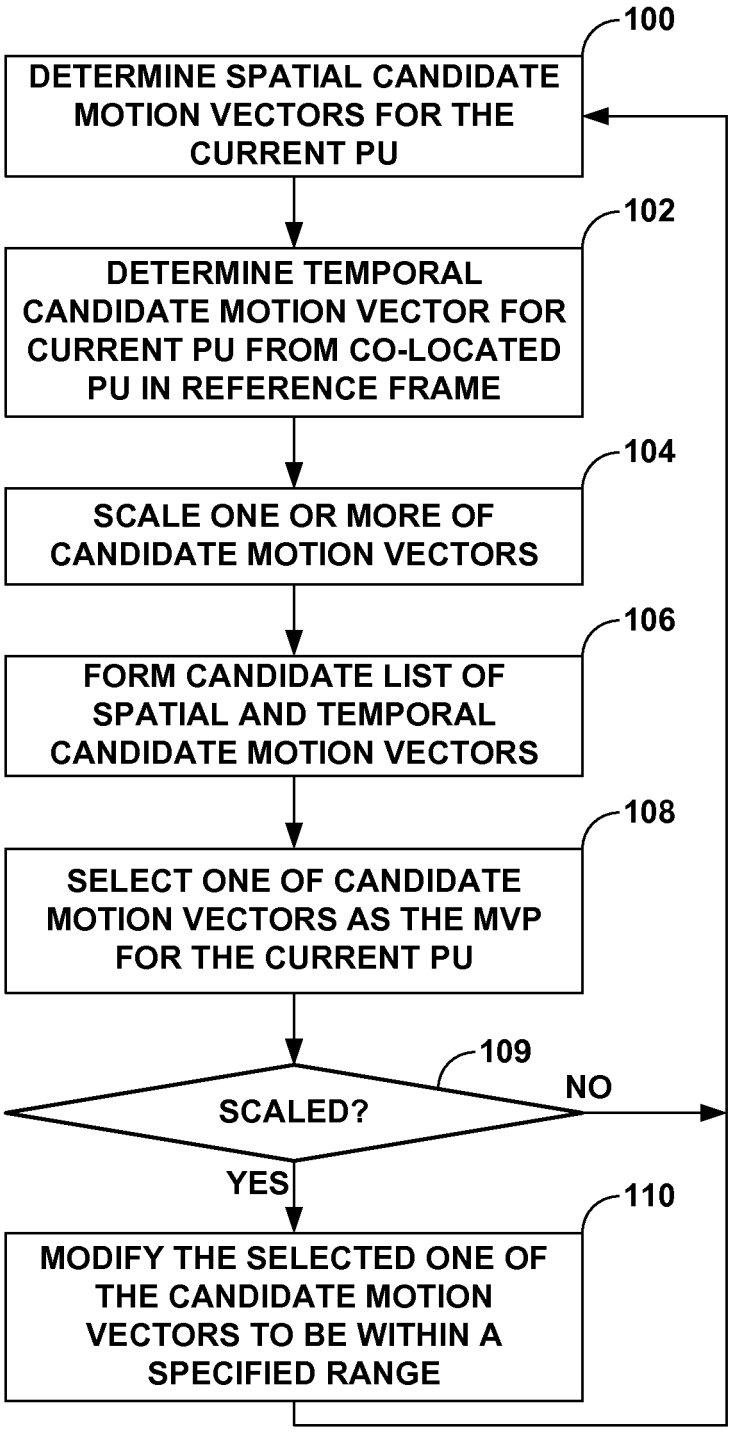

100
DETERMINE SPATIAL CANDIDATE MOTION VECTORS FOR THE CURRENT PU
102
DETERMINE TEMPORAL CANDIDATE MOTION VECTOR FOR CURRENT PU FROM CO-LOCATED PU IN REFERENCE FRAME
104
SCALE ONE OR MORE OF CANDIDATE MOTION VECTORS
106
FORM CANDIDATE LIST OF SPATIAL AND TEMPORAL CANDIDATE MOTION VECTORS
108
SELECT ONE OF CANDIDATE MOTION VECTORS AS THE MVP FOR THE CURRENT PU
109
SCALED?
NO
YES
110
MODIFY THE SELECTED ONE OF THE CANDIDATE MOTION VECTORS TO BE WITHIN A SPECIFIED RANGE

FIG. 5

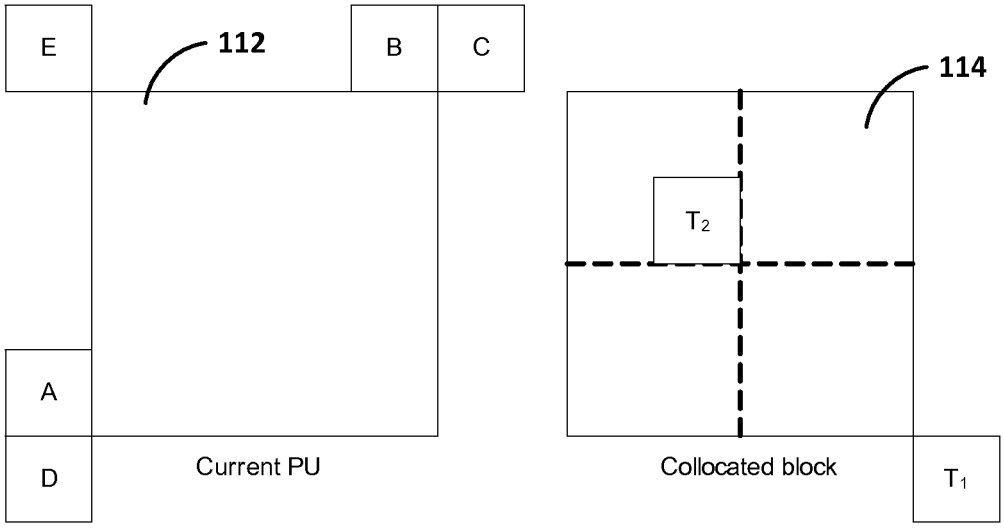


FIG. 6