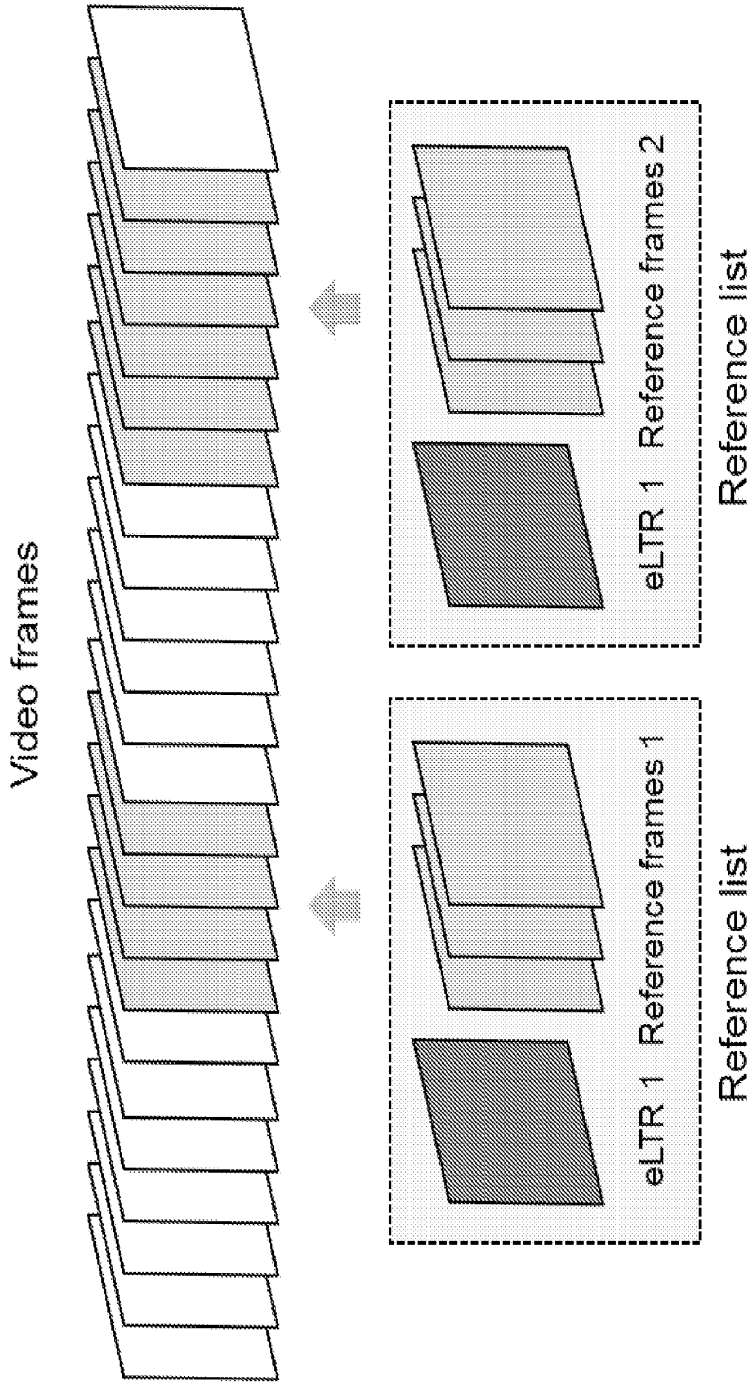
Video frames
eLTR 1 Reference frames 1
Reference list
eLTR 1 Reference frames 2
Reference list

FIG. 1

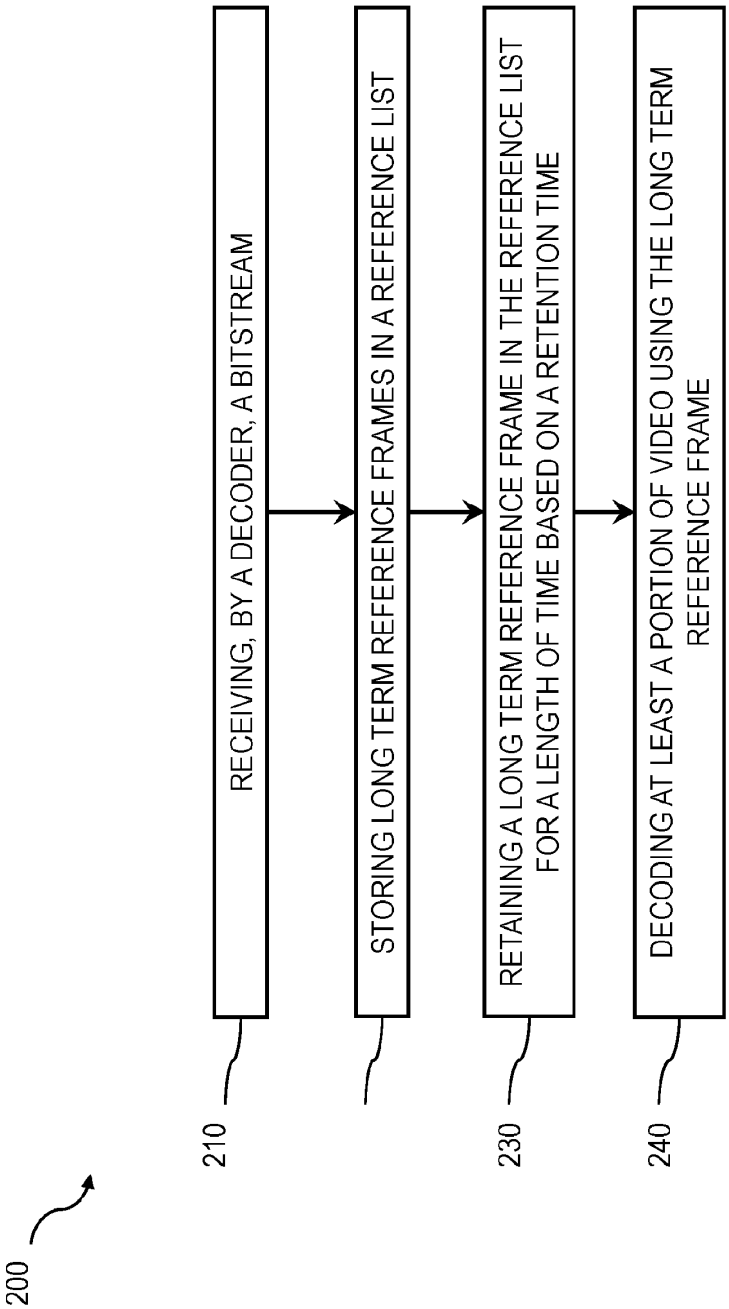
200
210
RECEIVING, BY A DECODER, A BITSTREAM
STORING LONG TERM REFERENCE FRAMES IN A REFERENCE LIST
230
RETAINING A LONG TERM REFERENCE FRAME IN THE REFERENCE LIST FOR A LENGTH OF TIME BASED ON A RETENTION TIME
240
DECODING AT LEAST A PORTION OF VIDEO USING THE LONG TERM REFERENCE FRAME

FIG. 2

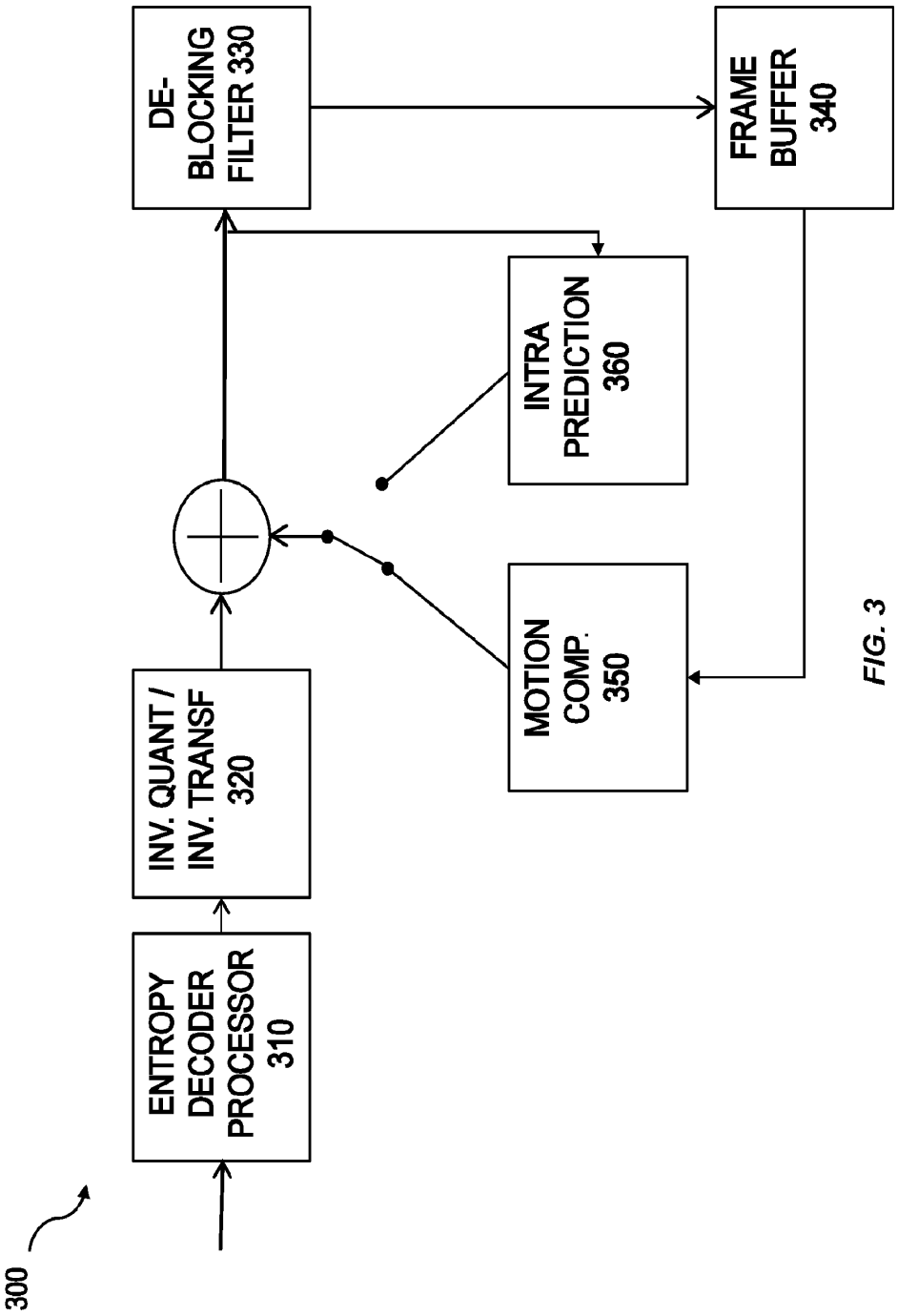
300
ENTROPY DECODER PROCESSOR 310
INV. QUANT / INV. TRANSF 320
MOTION COMP. 350
INTRA PREDICTION 360
DE-BLOCKING FILTER 330
FRAME BUFFER 340

FIG. 3

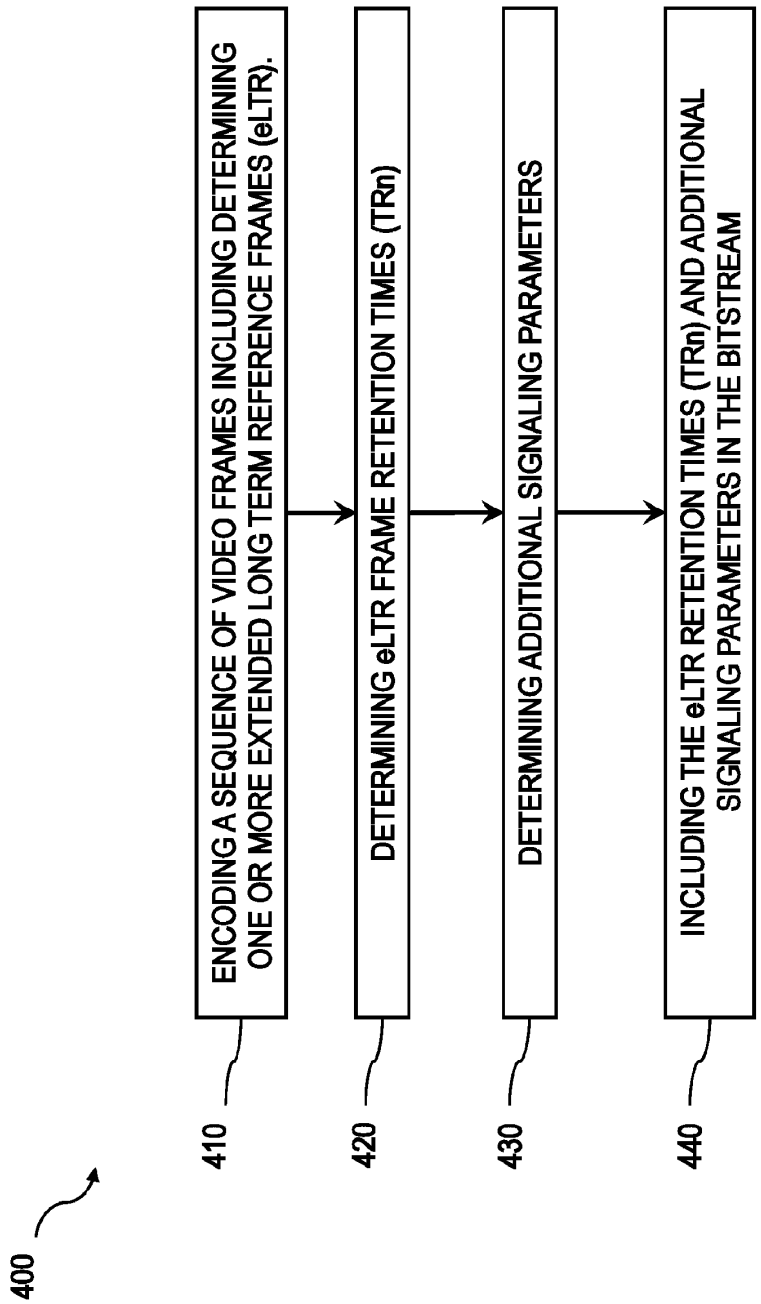
400
410
ENCODING A SEQUENCE OF VIDEO FRAMES INCLUDING DETERMINING ONE OR MORE EXTENDED LONG TERM REFERENCE FRAMES (eLTR).
420
DETERMINING eLTR FRAME RETENTION TIMES (TRn)
430
DETERMINING ADDITIONAL SIGNALING PARAMETERS
440
INCLUDING THE eLTR RETENTION TIMES (TRn) AND ADDITIONAL SIGNALING PARAMETERS IN THE BITSTREAM

FIG. 4

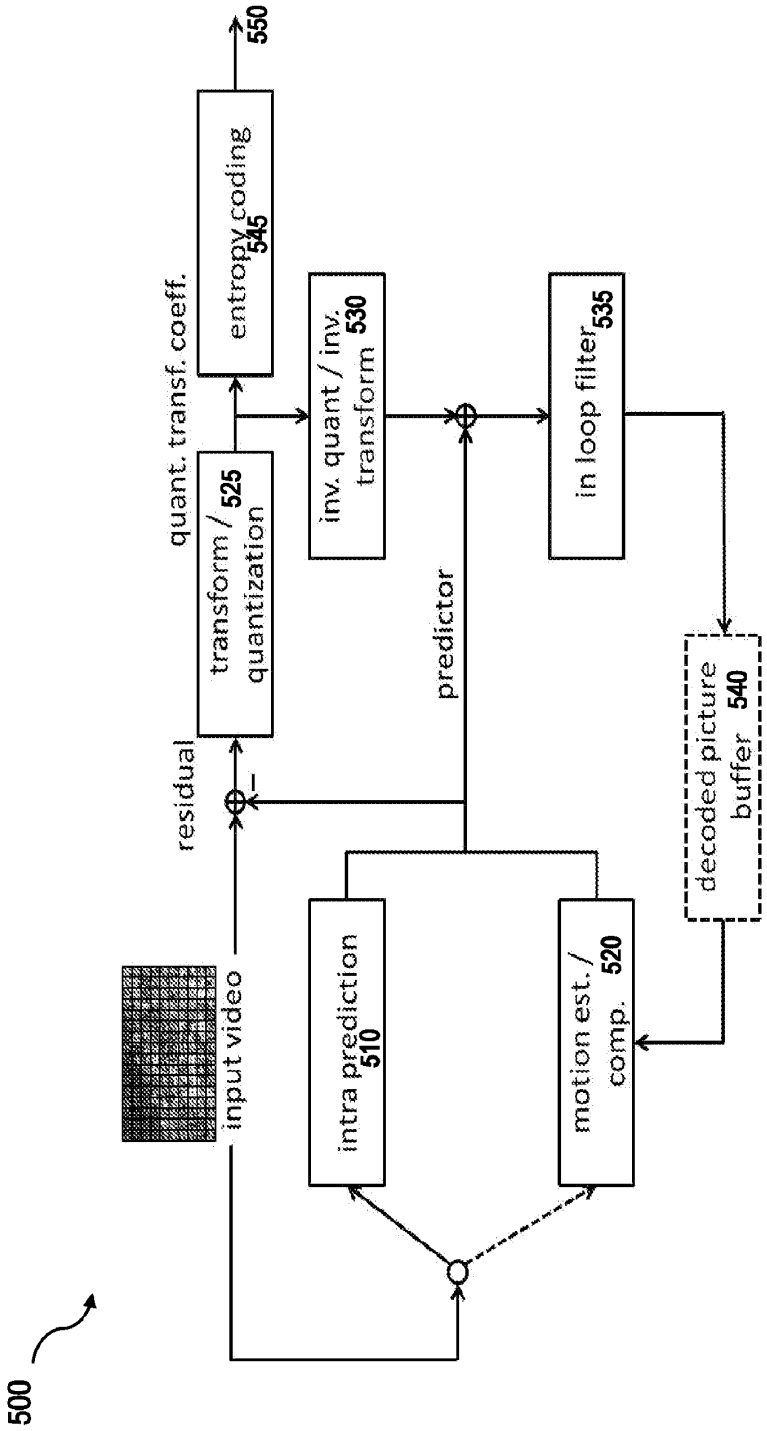
500
input video
residual
quant. transf. coeff.
transform / quantization 525
entropy coding 545
550
inv. quant / inv. transform 530
in loop filter 535
predictor
decoded picture buffer 540
intra prediction 510
motion est. / comp. 520

FIG. 5

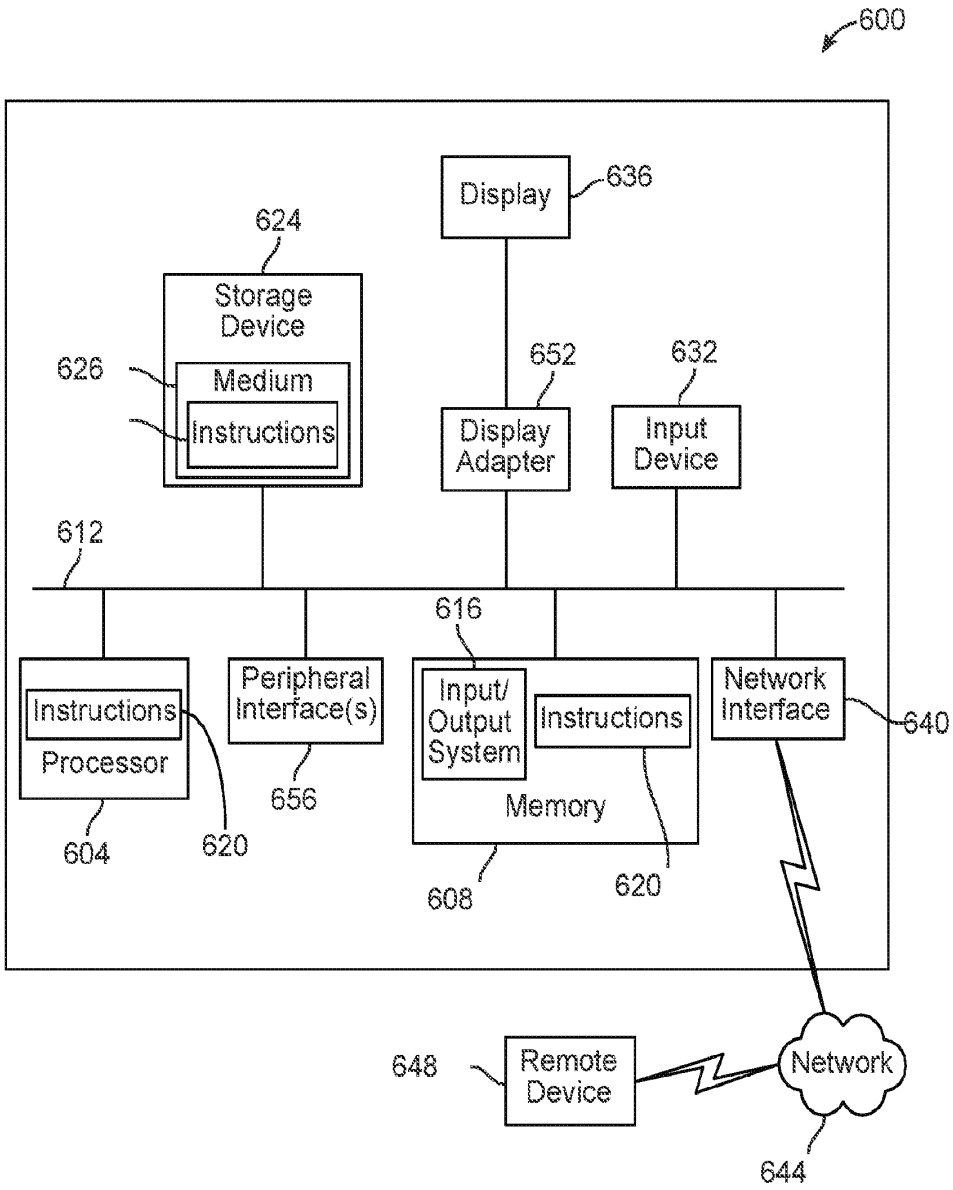
600
Display
636
624
Storage Device
626
Medium
Instructions
652
632
Display Adapter
Input Device
612
616
Instructions
Processor
604
620
Peripheral Interface(s)
656
Input/ Output System
Instructions
Memory
608
620
Network Interface
640
648
Remote Device
Network
644

FIG. 6