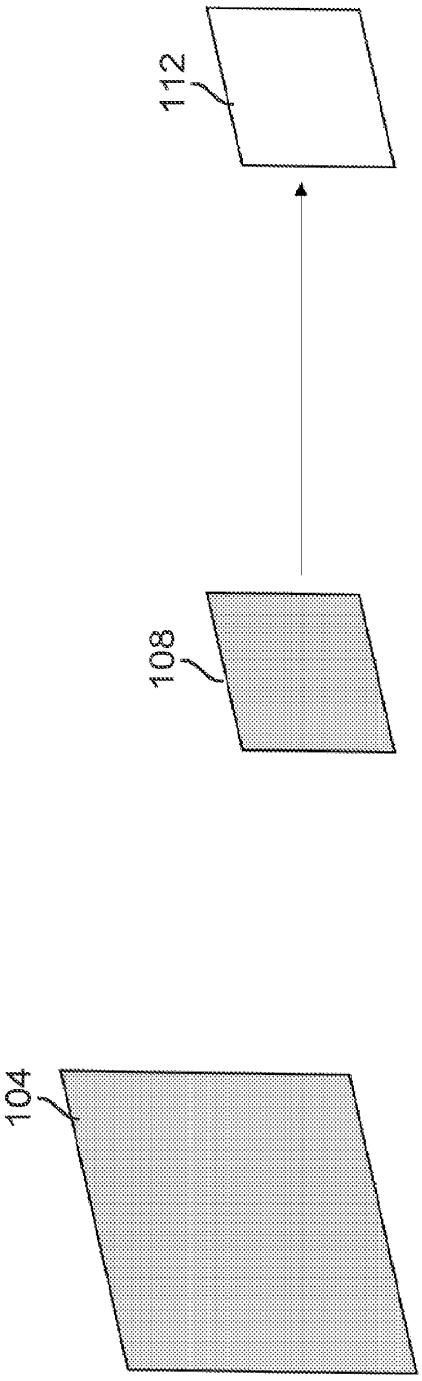


FIG. 1

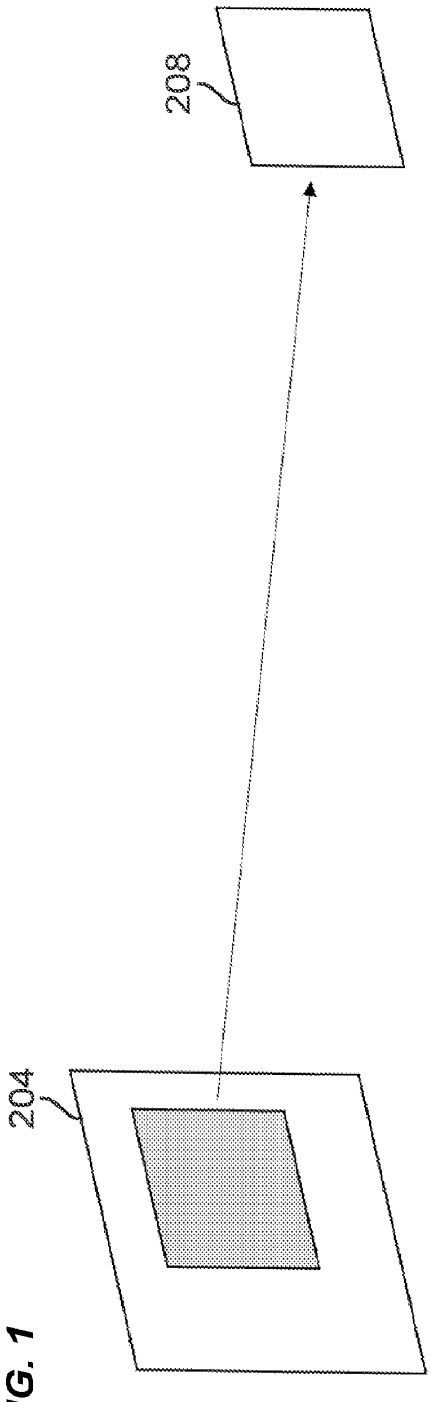


FIG. 2

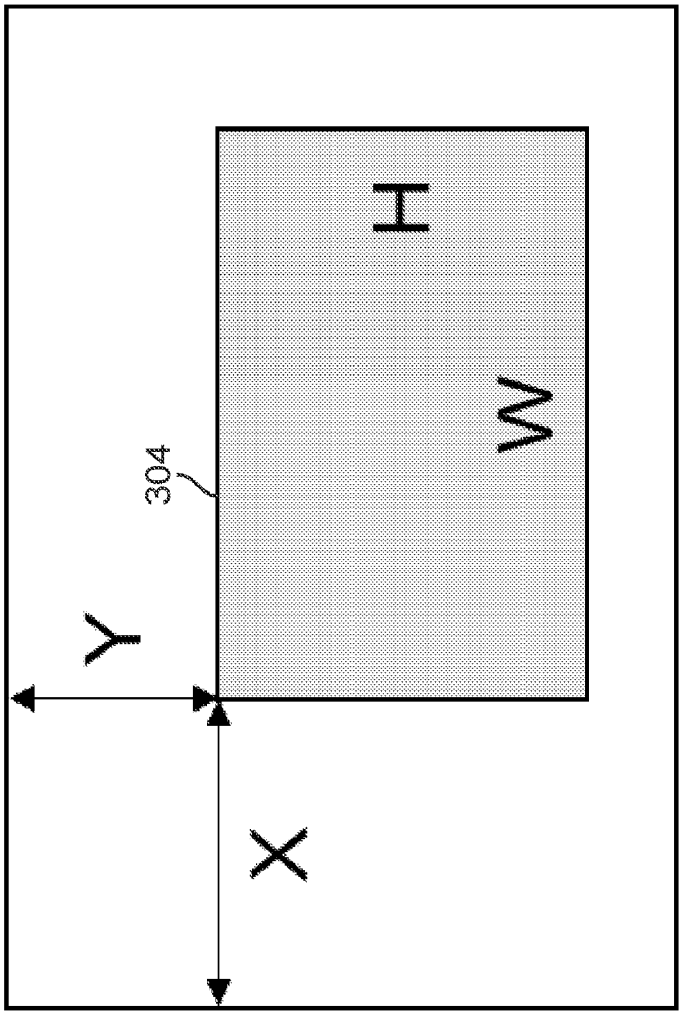


FIG. 3

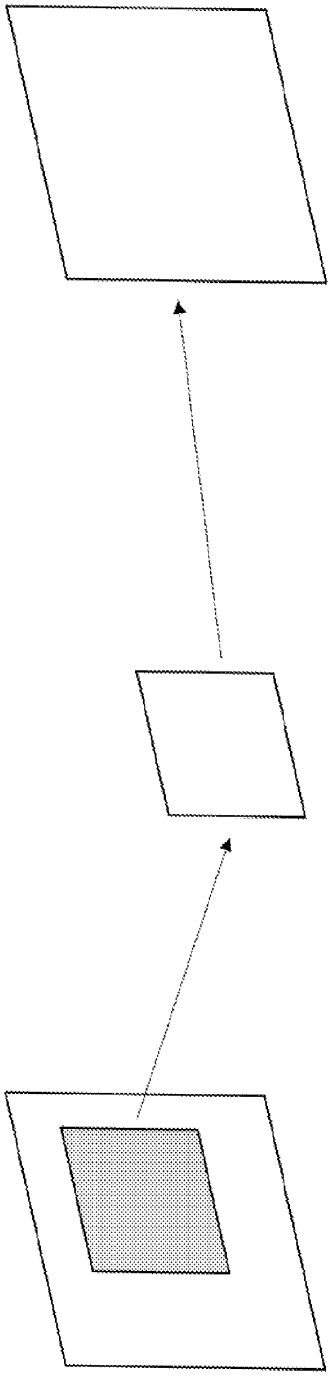


FIG. 4

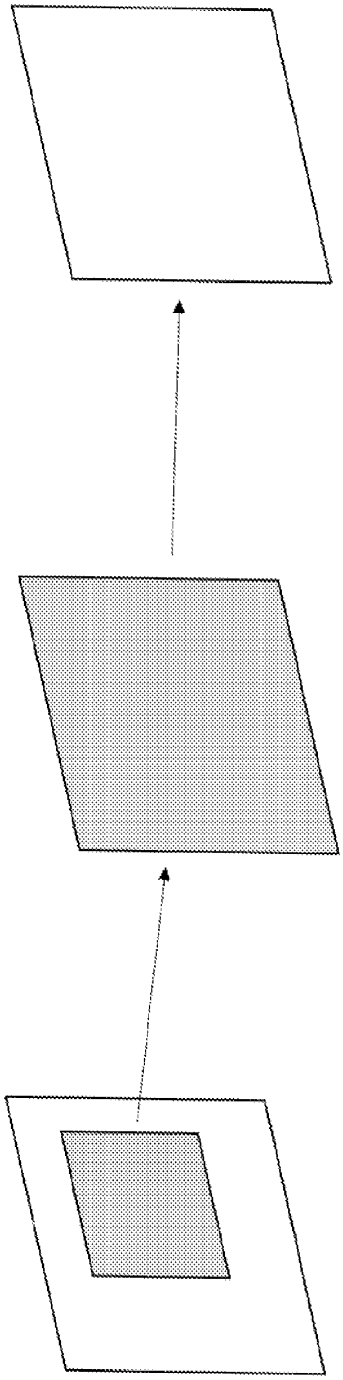


FIG. 5

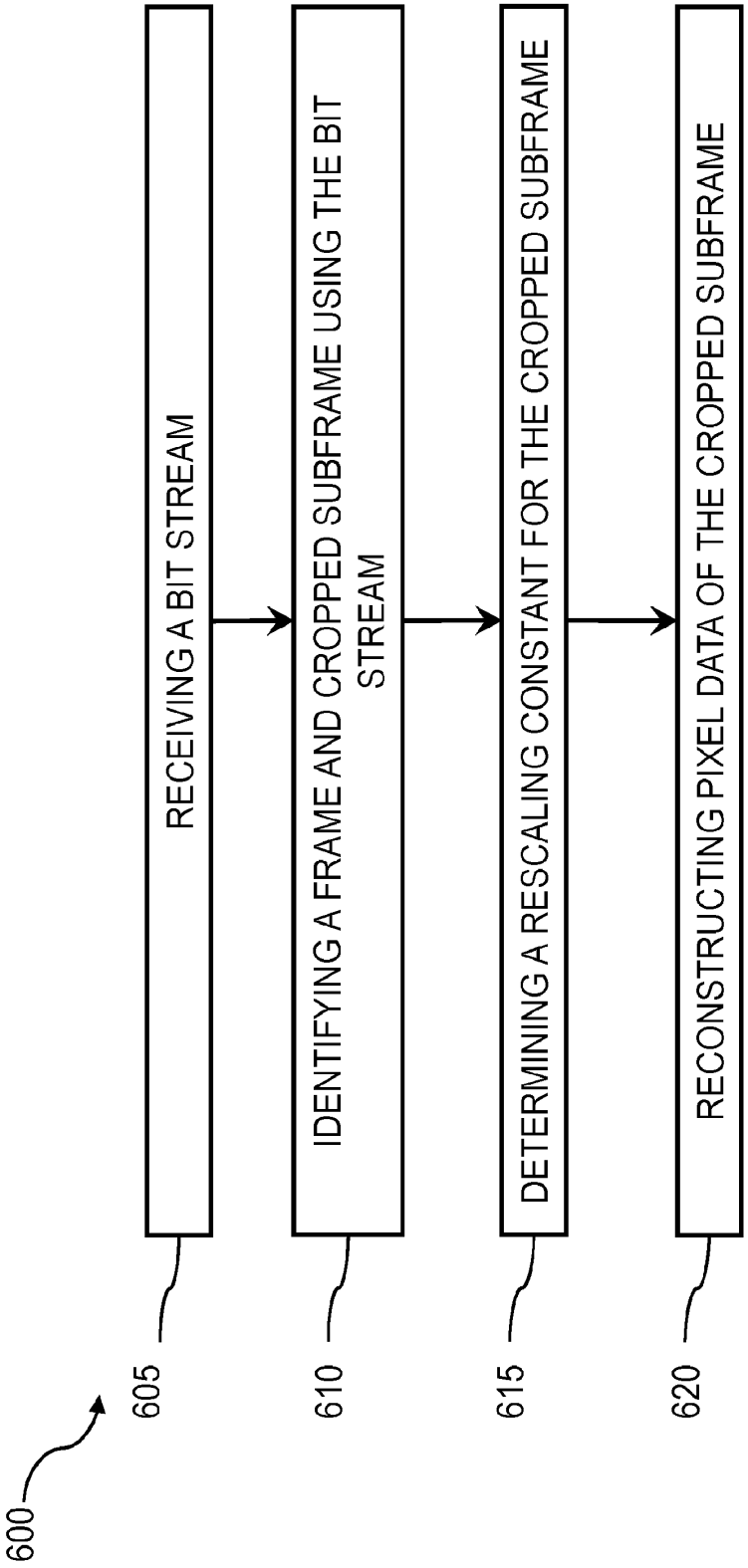

600
605
RECEIVING A BIT STREAM
610
IDENTIFYING A FRAME AND CROPPED SUBFRAME USING THE BIT STREAM
615
DETERMINING A RESCALING CONSTANT FOR THE CROPPED SUBFRAME
620
RECONSTRUCTING PIXEL DATA OF THE CROPPED SUBFRAME

FIG. 6

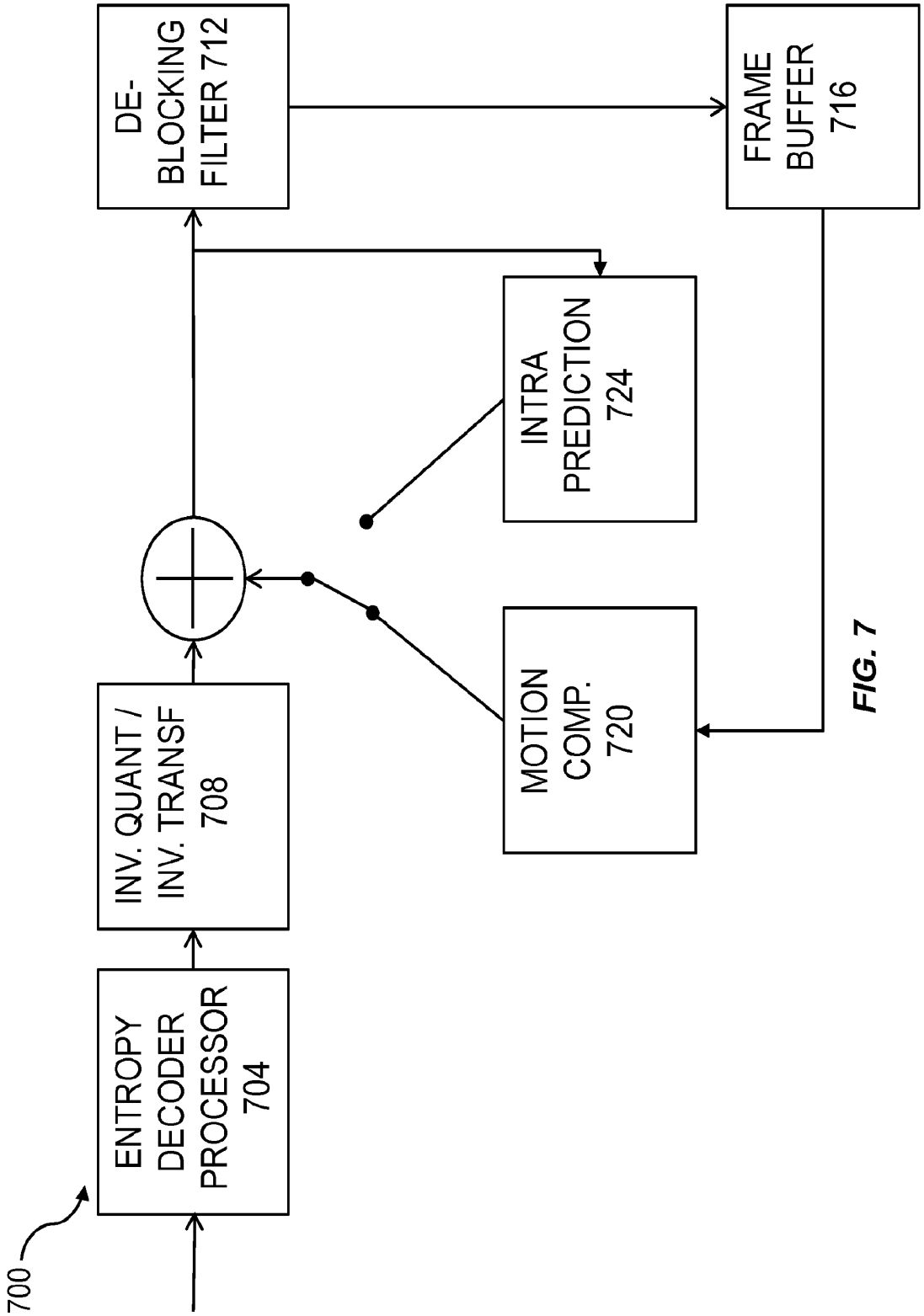

700
ENTROPY DECODER PROCESSOR 704
INV. QUANT / INV. TRANSF 708
MOTION COMP. 720
INTRA PREDICTION 724
DE-BLOCKING FILTER 712
FRAME BUFFER 716

FIG. 7

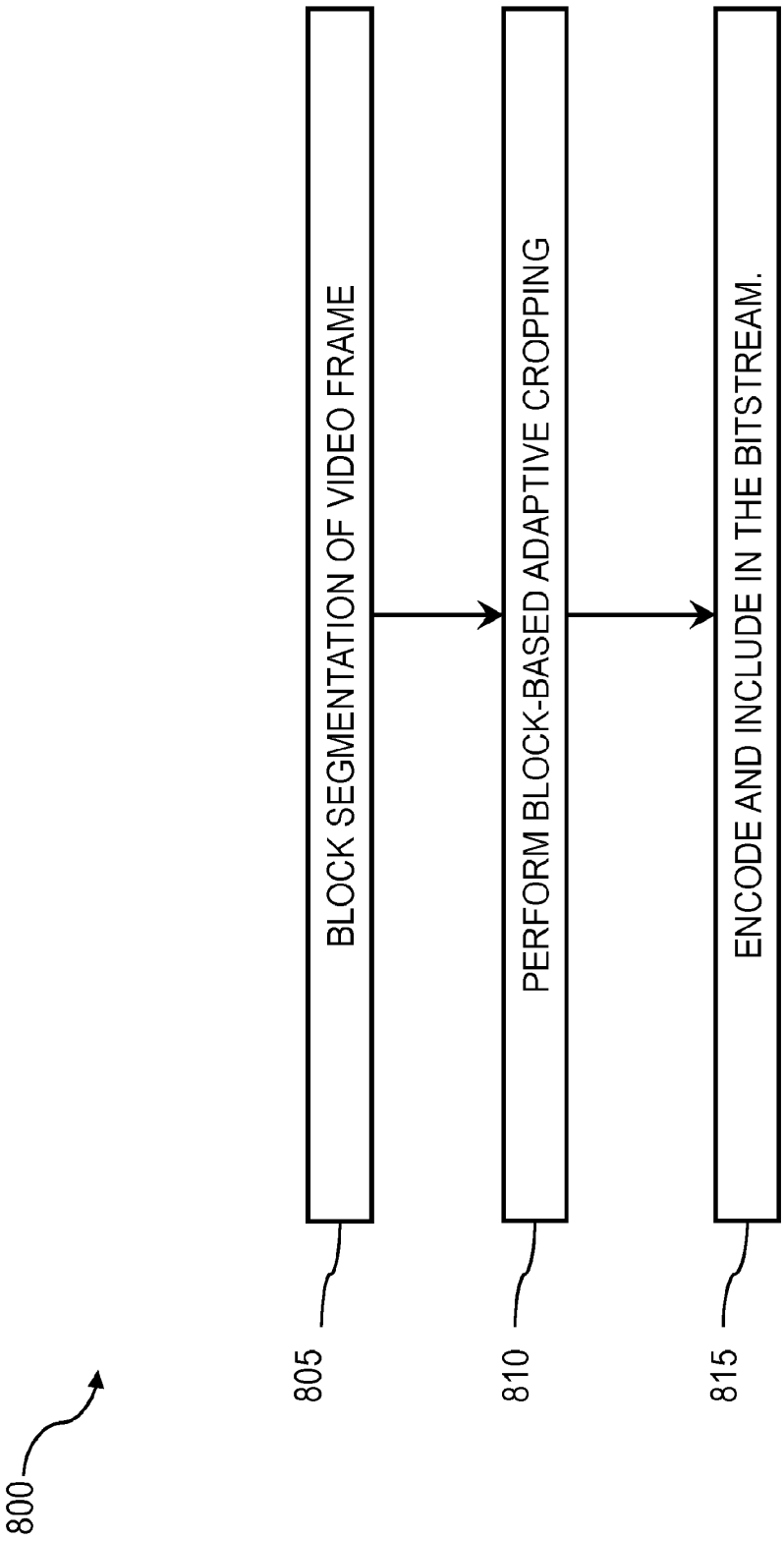

800
805
BLOCK SEGMENTATION OF VIDEO FRAME
810
PERFORM BLOCK-BASED ADAPTIVE CROPPING
815
ENCODE AND INCLUDE IN THE BITSTREAM.

FIG. 8

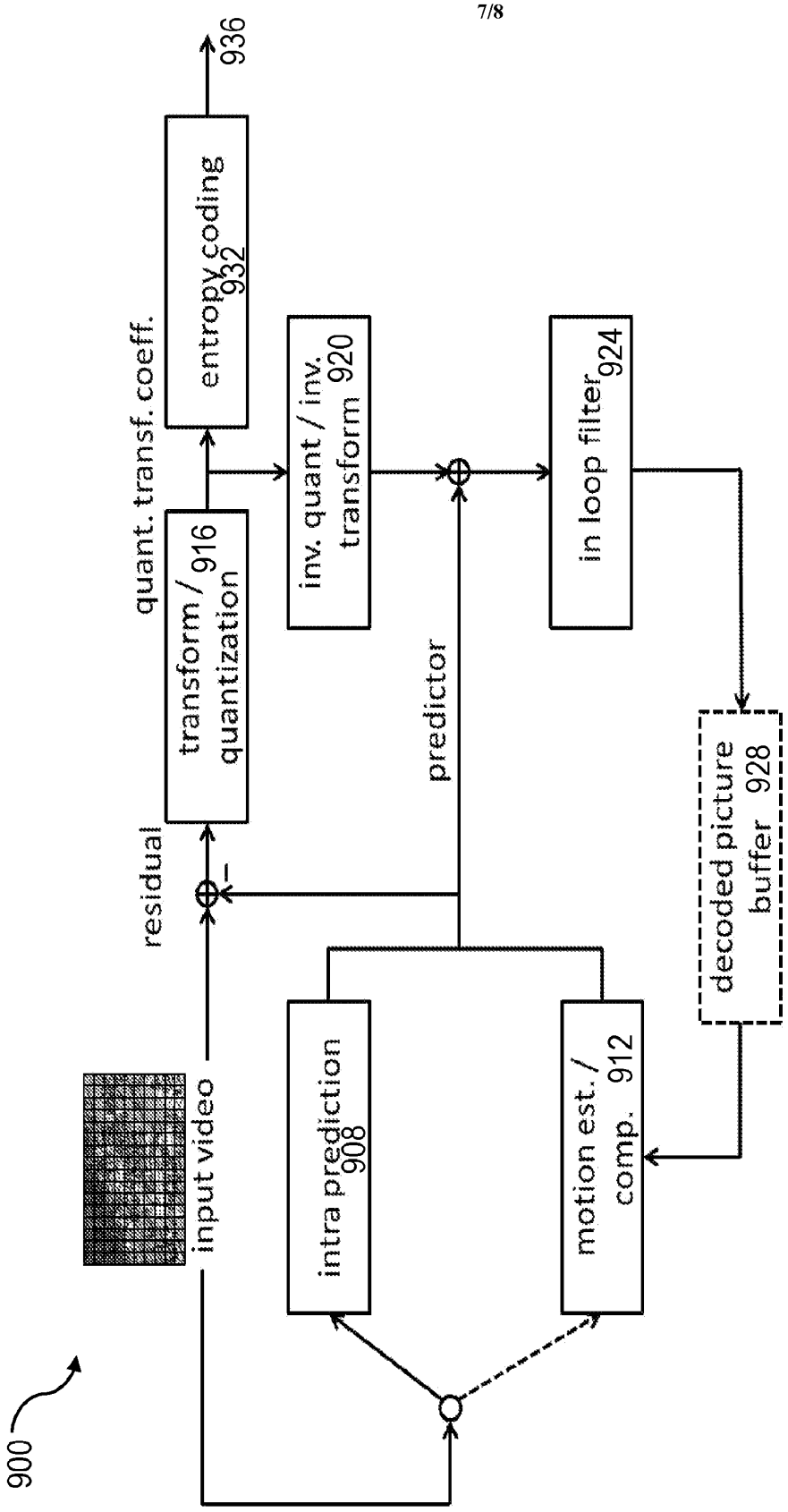

900
input video
residual
transform / quantization 916
quant. transf. coeff.
entropy coding 932
936
inv. quant / inv. transform 920
predictor
in loop filter 924
decoded picture buffer 928
intra prediction 908
motion est. / comp. 912

FIG. 9

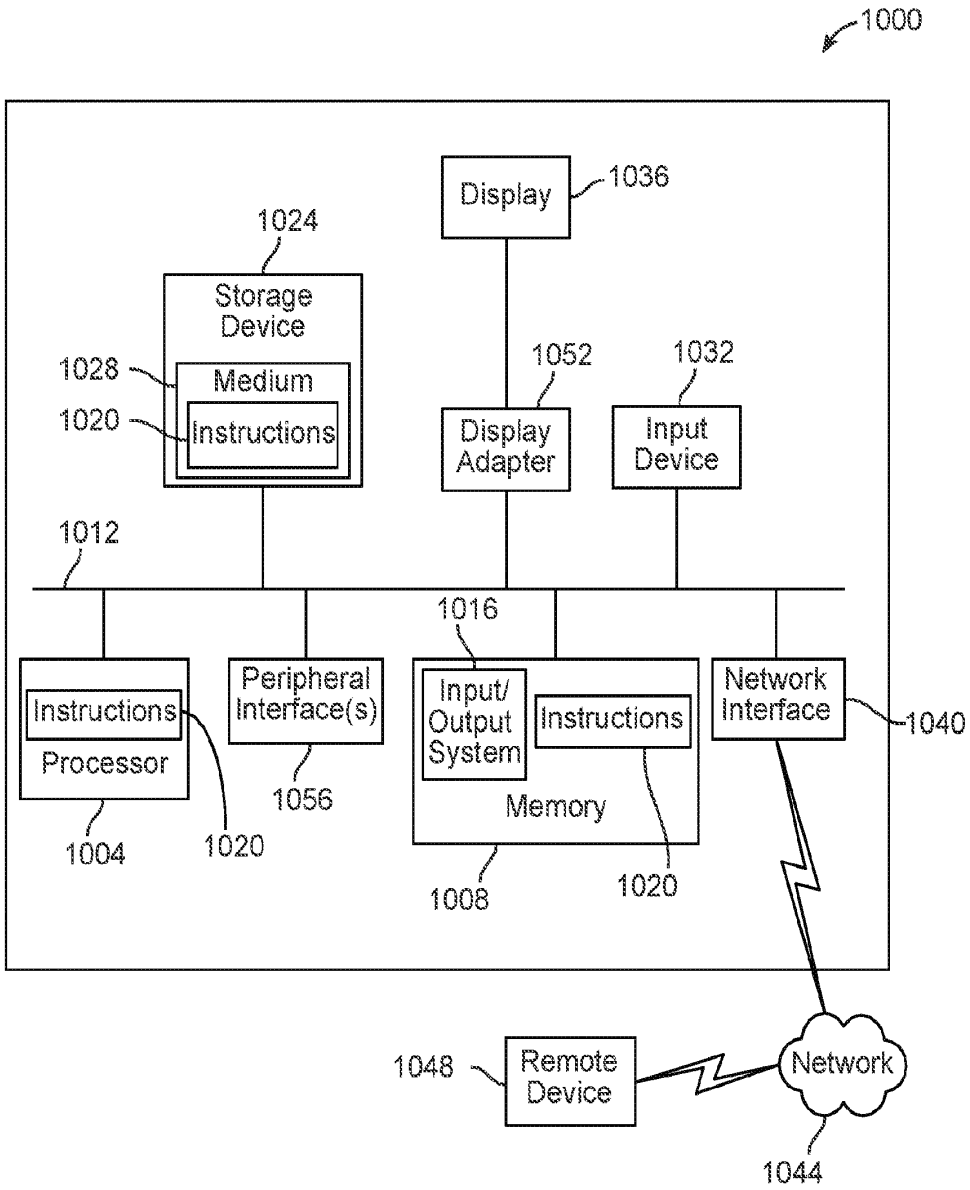

1000
Display
1036
1024
Storage Device
1028
Medium
1020
Instructions
1052
1032
Display Adapter
Input Device
1012
1016
Instructions
Processor
1004
1020
Peripheral Interface(s)
1056
Input/ Output System
Instructions
Memory
1008
1020
Network Interface
1040
1048
Remote Device
Network
1044

FIG. 10