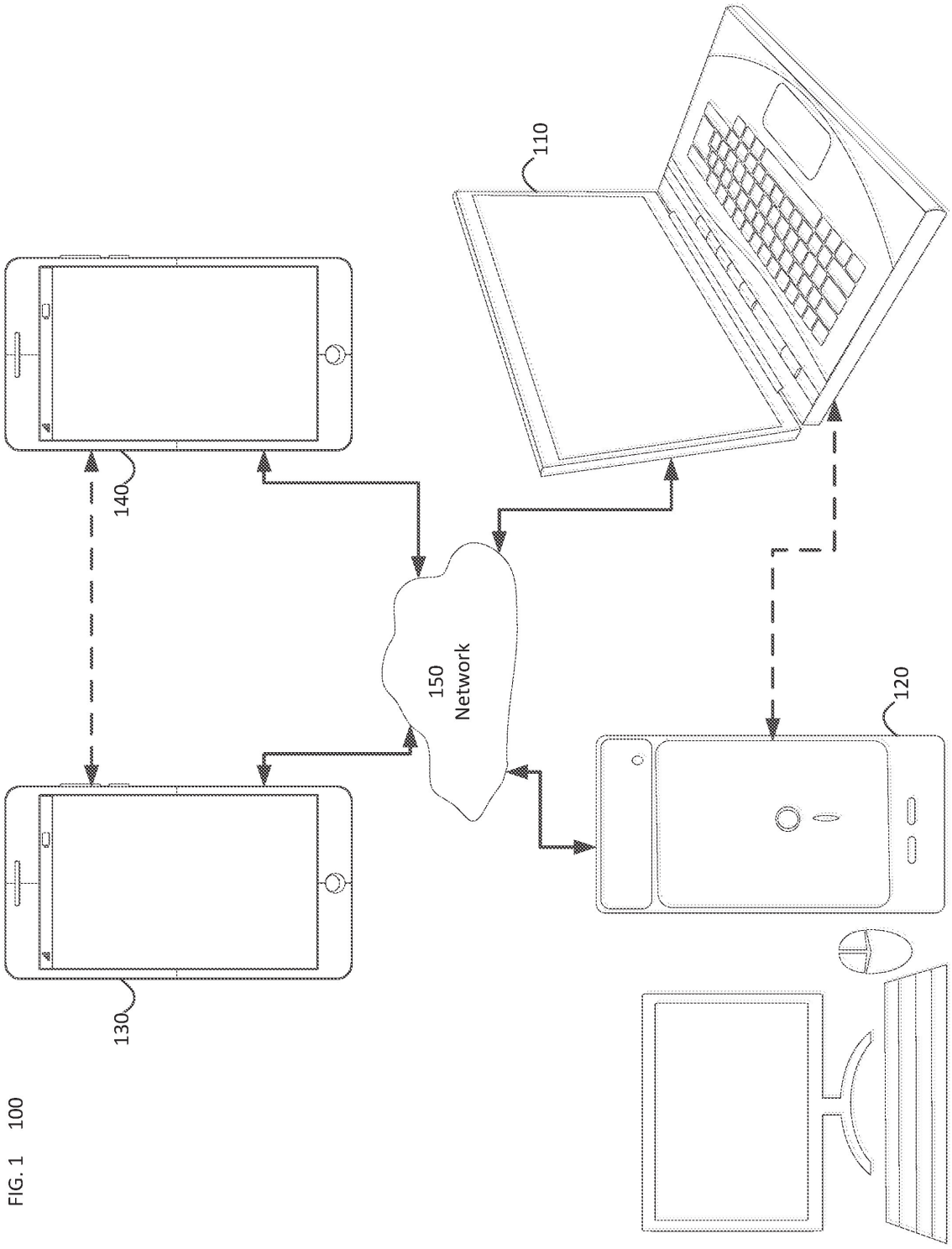



FIG. 1 100

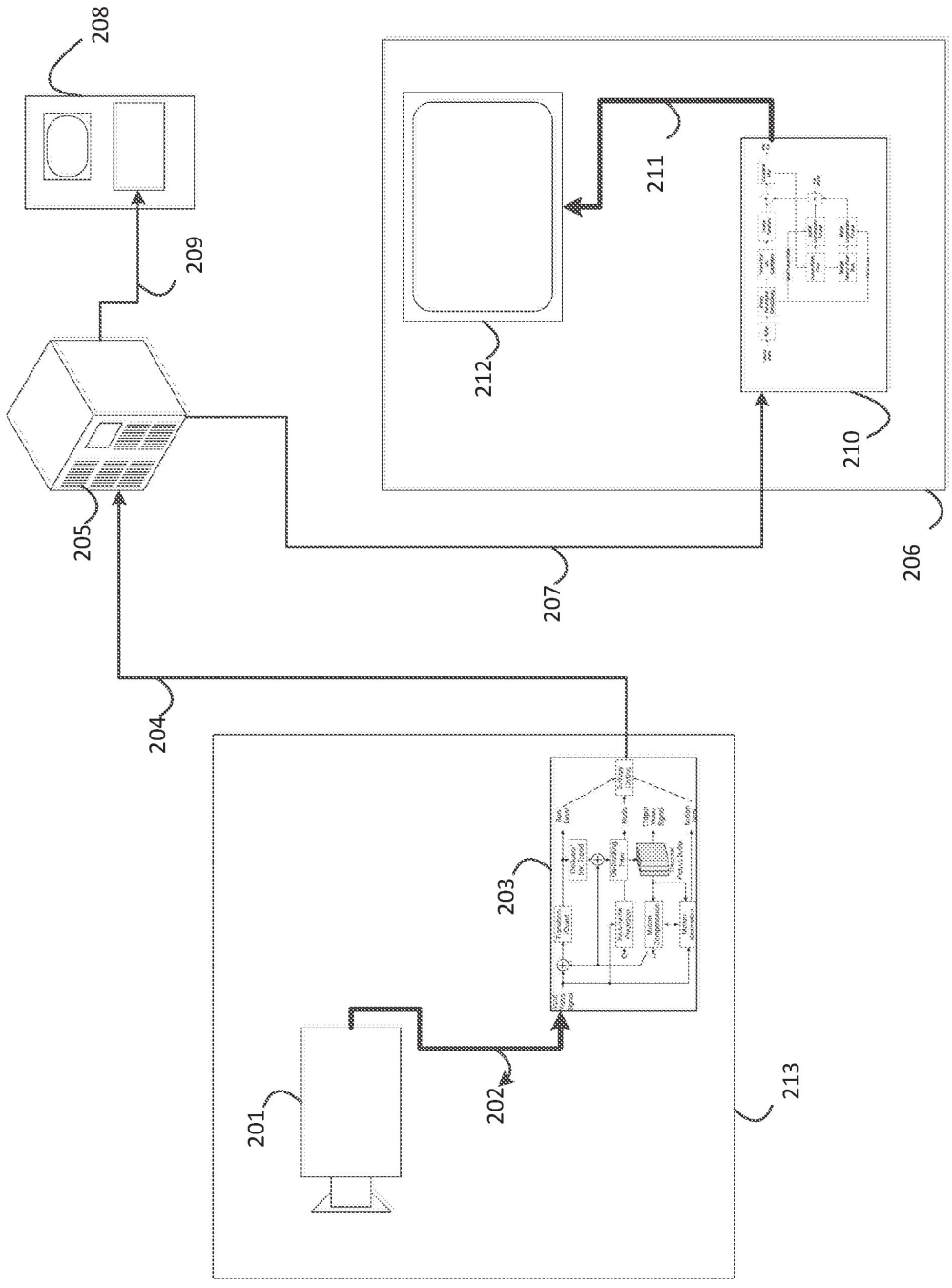



FIG. 2 Streaming System 200

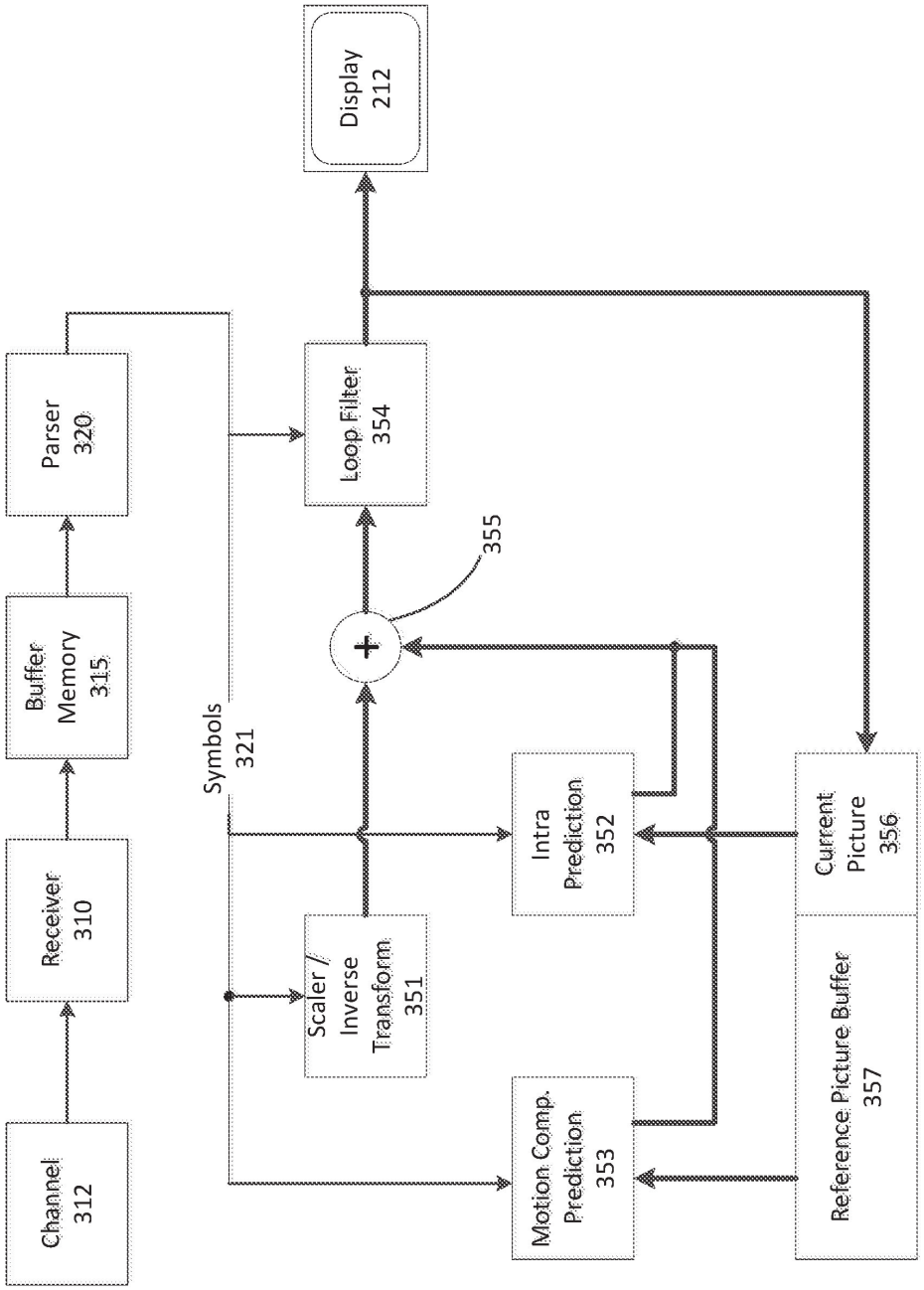



FIG. 3 Decoder 210

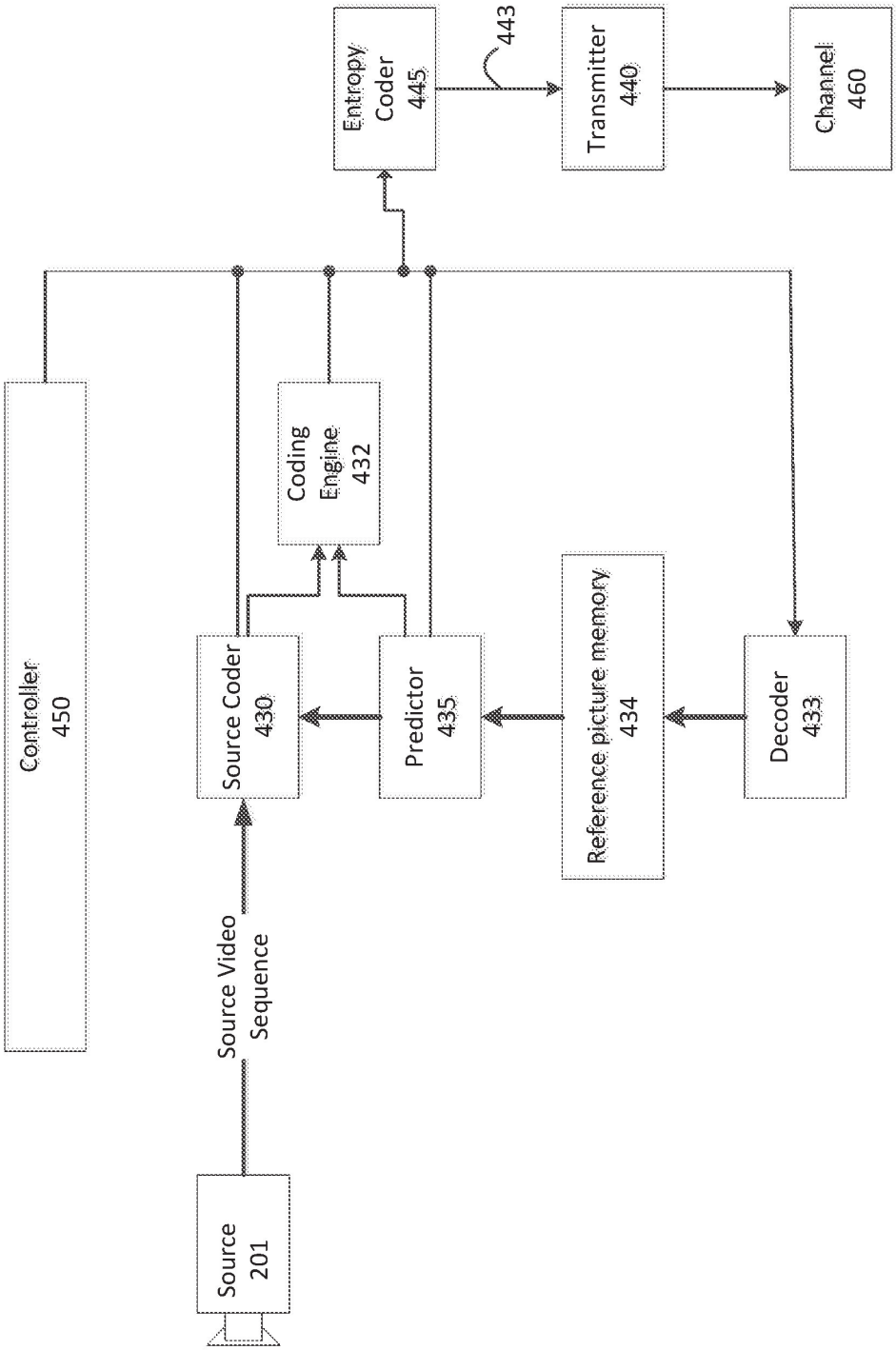



FIG. 4 Encoder 203

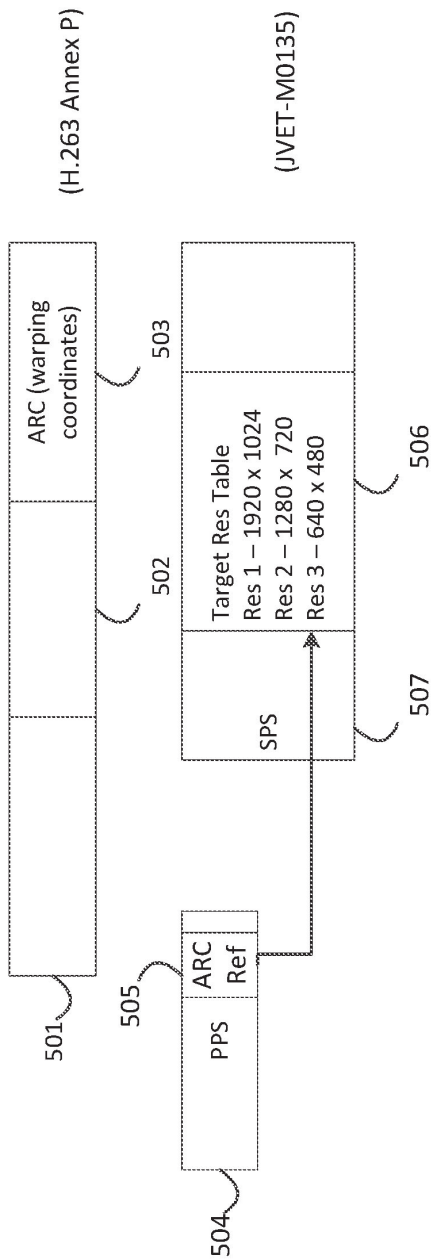

(H.263 Annex P)
(JVET-M0135)
ARC (warping coordinates)
Target Res Table
Res 1 – 1920 x 1024
Res 2 – 1280 x 720
Res 3 – 640 x 480
SPS
ARC Ref
PPS
501
502
503
504
505
506
507

FIG. 5A

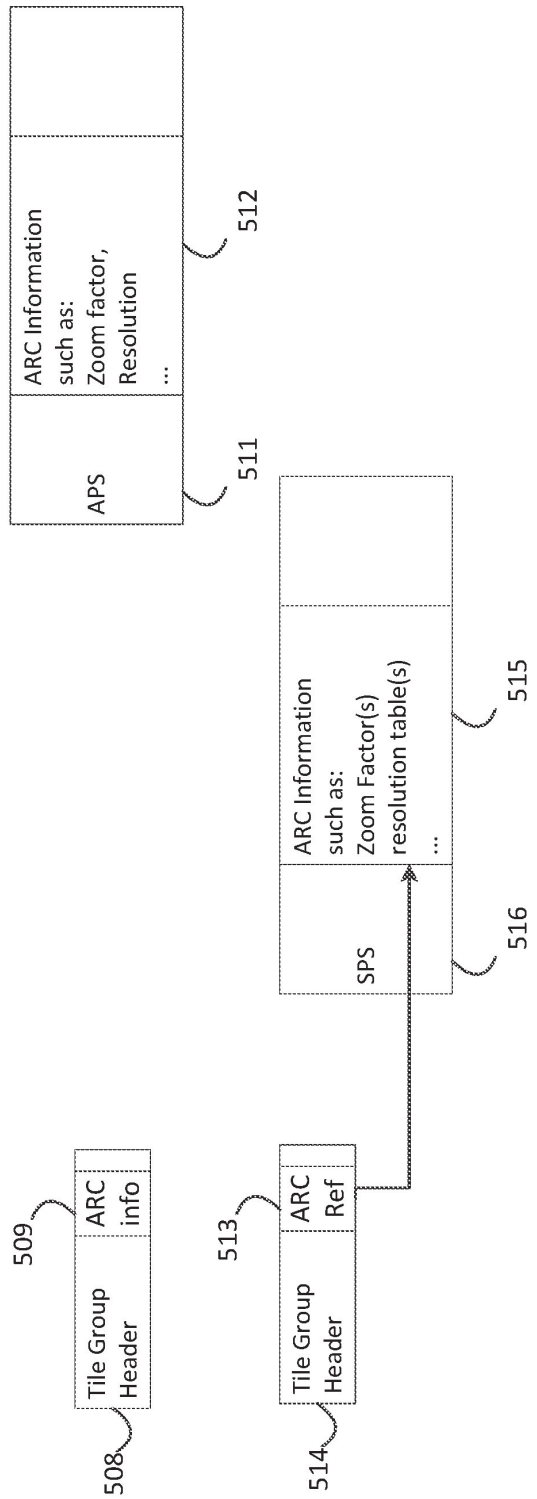
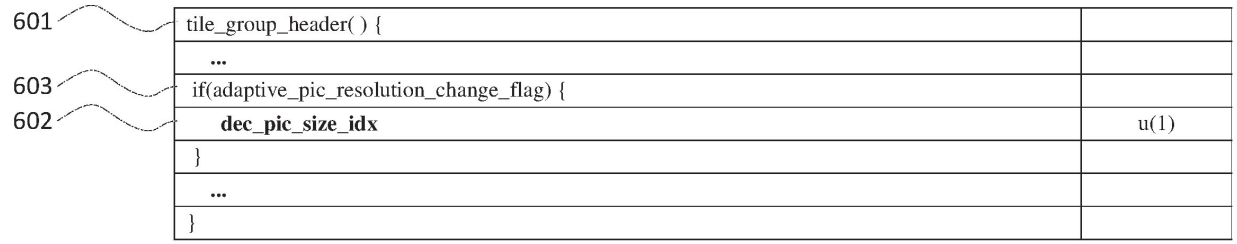
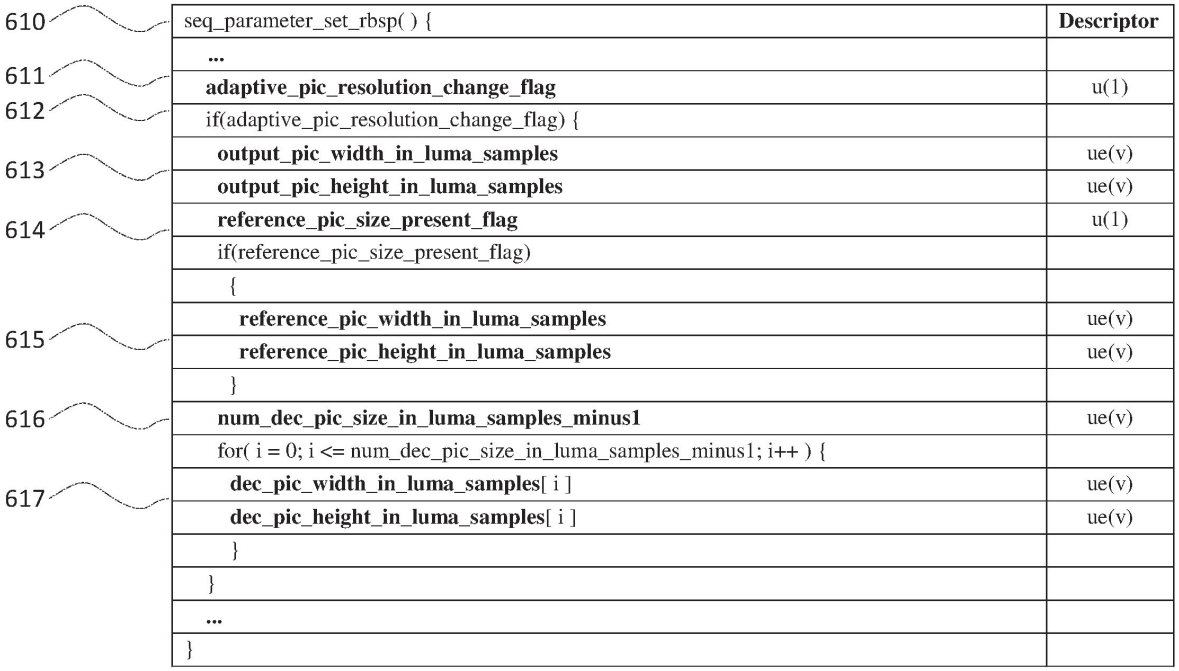

APS
ARC Information such as: Zoom factor, Resolution ...
511
512
SPS
ARC Information such as: Zoom Factor(s) resolution table(s) ...
515
516
Tile Group Header
ARC Ref
513
514
Tile Group Header
ARC info
509
508

FIG. 5B

FIG. 6A



| | | |
|---|---|---|
| 601 | tile_group_header( ) { | |
| | ... | |
| 603 | if(adaptive_pic_resolution_change_flag) { | |
| 602 | **dec_pic_size_idx** | u(1) |
| | } | |
| | ... | |
| | } | |



| | | |
|---|---|---|
| 610 | seq_parameter_set_rbsp( ) { | **Descriptor** |
| | ... | |
| 611 | **adaptive_pic_resolution_change_flag** | u(1) |
| 612 | if(adaptive_pic_resolution_change_flag) { | |
| 613 | **output_pic_width_in_luma_samples** | ue(v) |
| | **output_pic_height_in_luma_samples** | ue(v) |
| 614 | **reference_pic_size_present_flag** | u(1) |
| | if(reference_pic_size_present_flag) | |
| | { | |
| 615 | **reference_pic_width_in_luma_samples** | ue(v) |
| | **reference_pic_height_in_luma_samples** | ue(v) |
| | } | |
| 616 | **num_dec_pic_size_in_luma_samples_minus1** | ue(v) |
| | for( i = 0; i <= num_dec_pic_size_in_luma_samples_minus1; i++ ) { | |
| 617 | **dec_pic_width_in_luma_samples**[ i ] | ue(v) |
| | **dec_pic_height_in_luma_samples**[ i ] | ue(v) |
| | } | |
| | } | |
| | ... | |
| | } | |

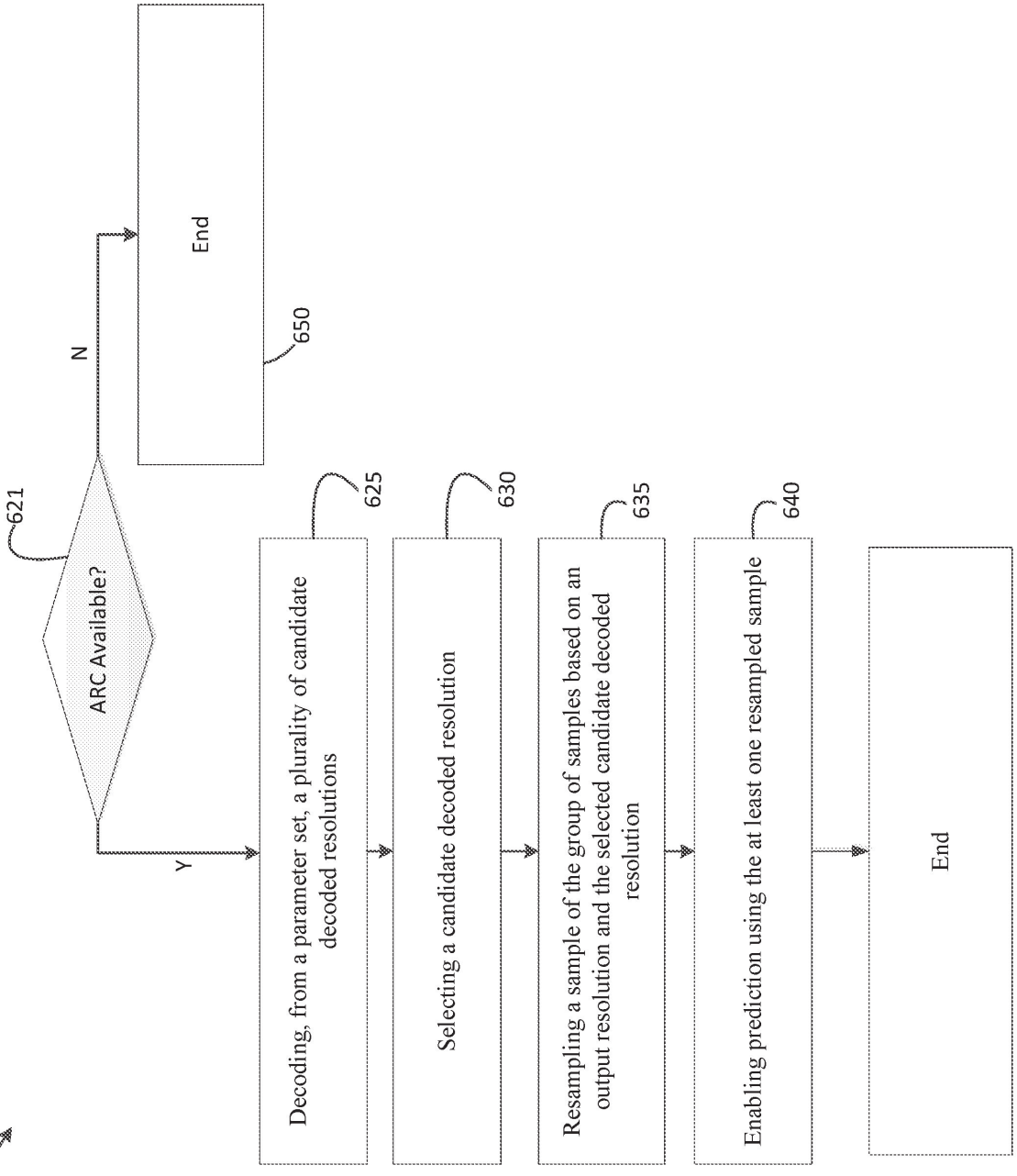

620
621
ARC Available?
N
Y
End
650
Decoding, from a parameter set, a plurality of candidate decoded resolutions
625
Selecting a candidate decoded resolution
630
Resampling a sample of the group of samples based on an output resolution and the selected candidate decoded resolution
635
Enabling prediction using the at least one resampled sample
640
End

FIG. 6B

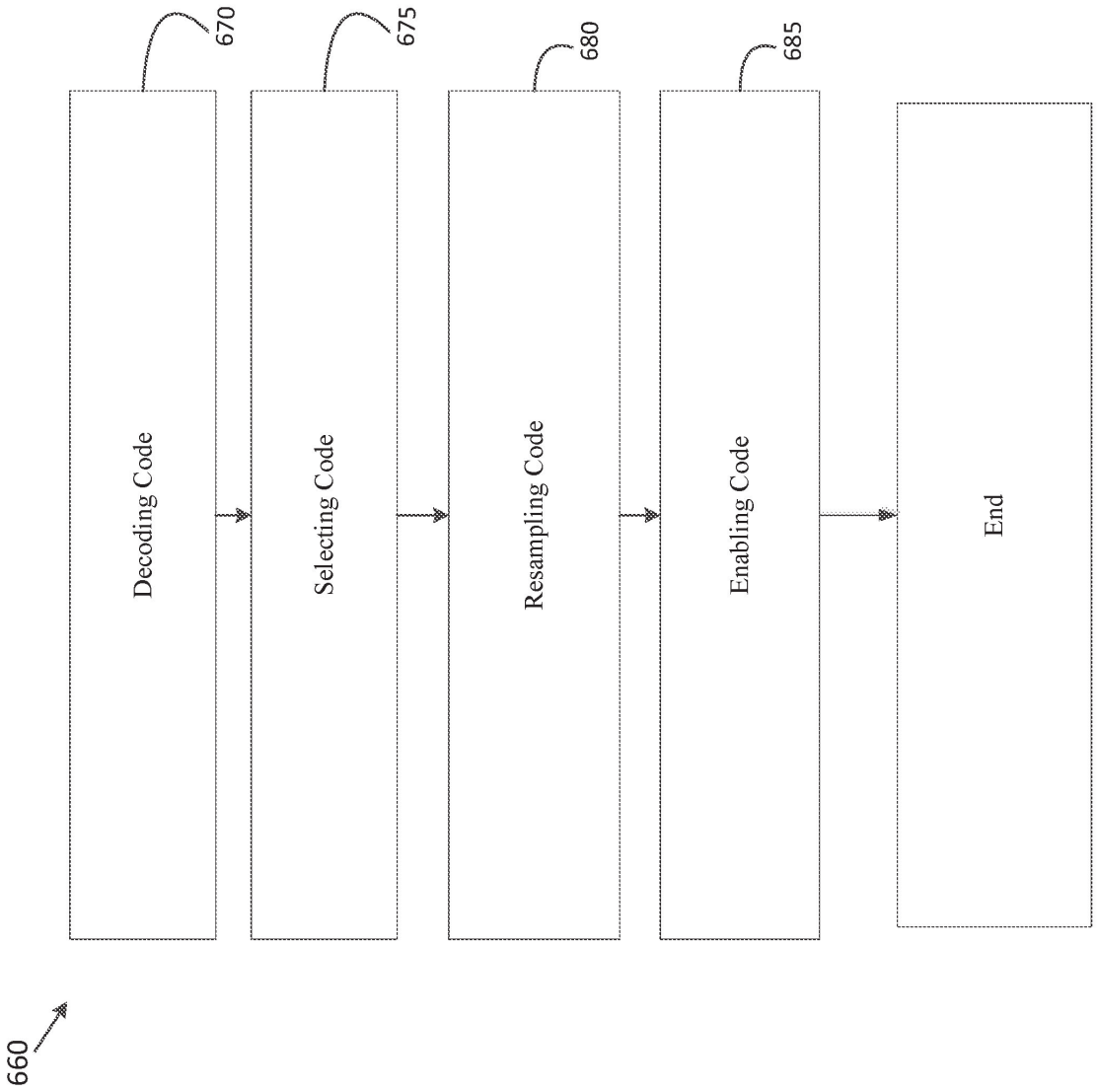

660
Decoding Code
670
Selecting Code
675
Resampling Code
680
Enabling Code
685
End

FIG. 6C

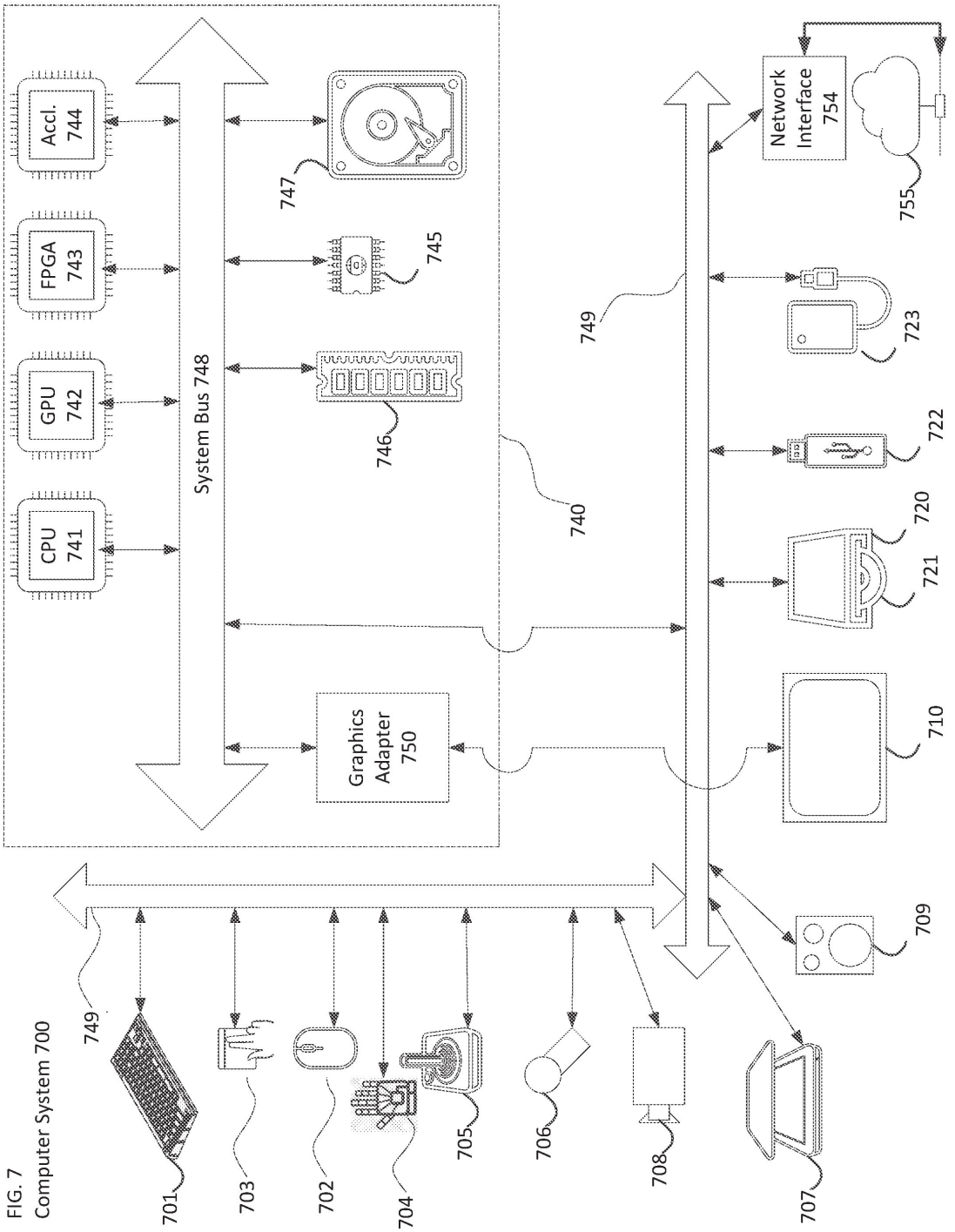



FIG. 7
Computer System 700