

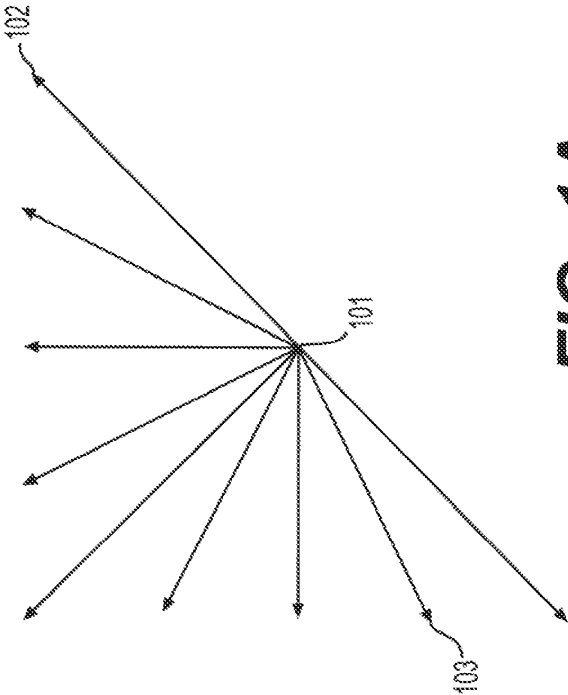
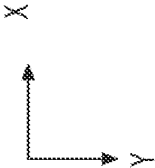
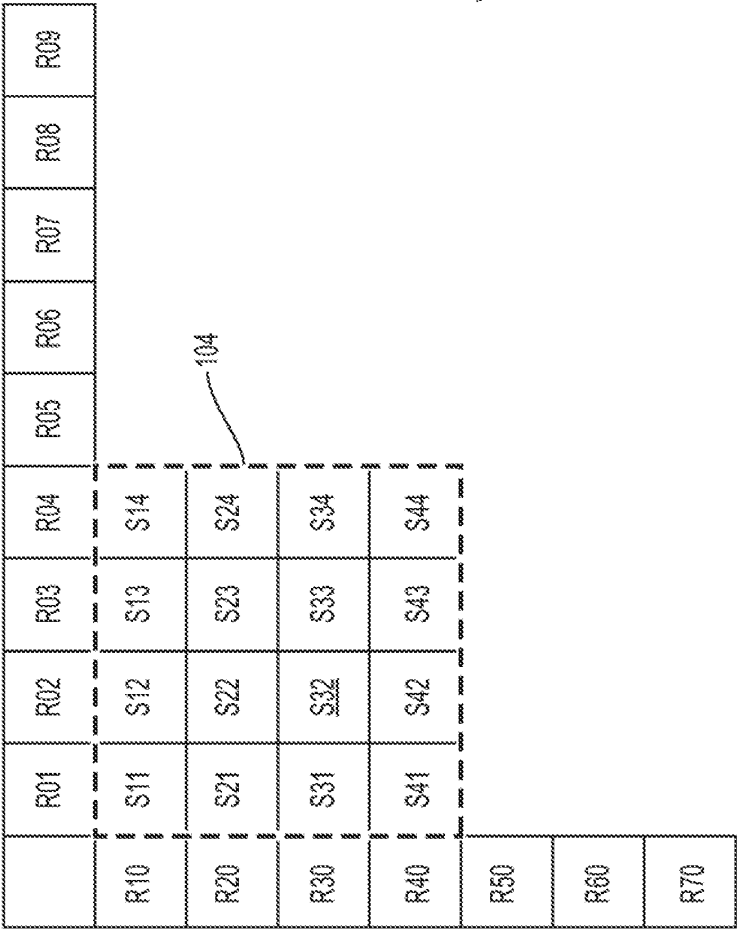
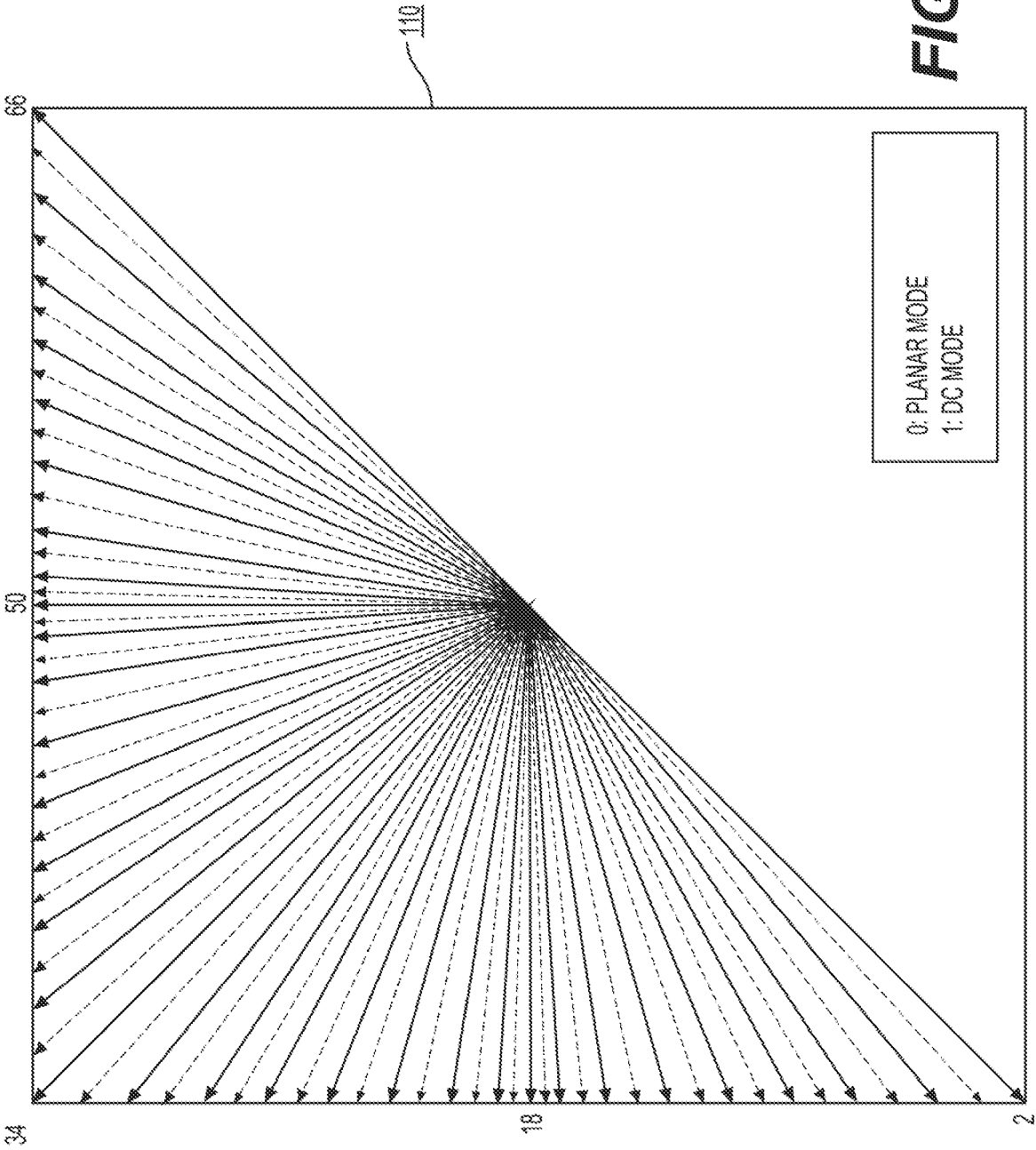


FIG. 1A



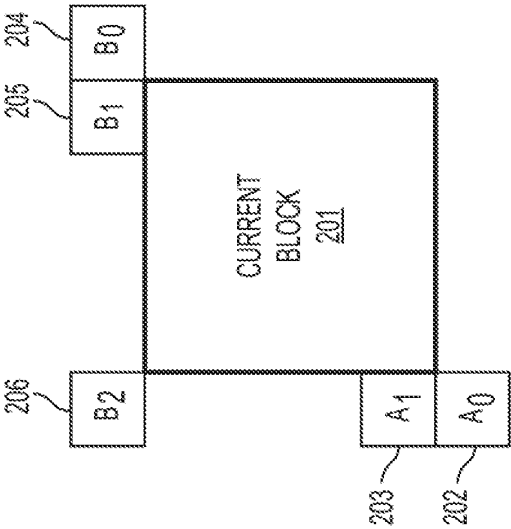


FIG. 2
(Related Art)

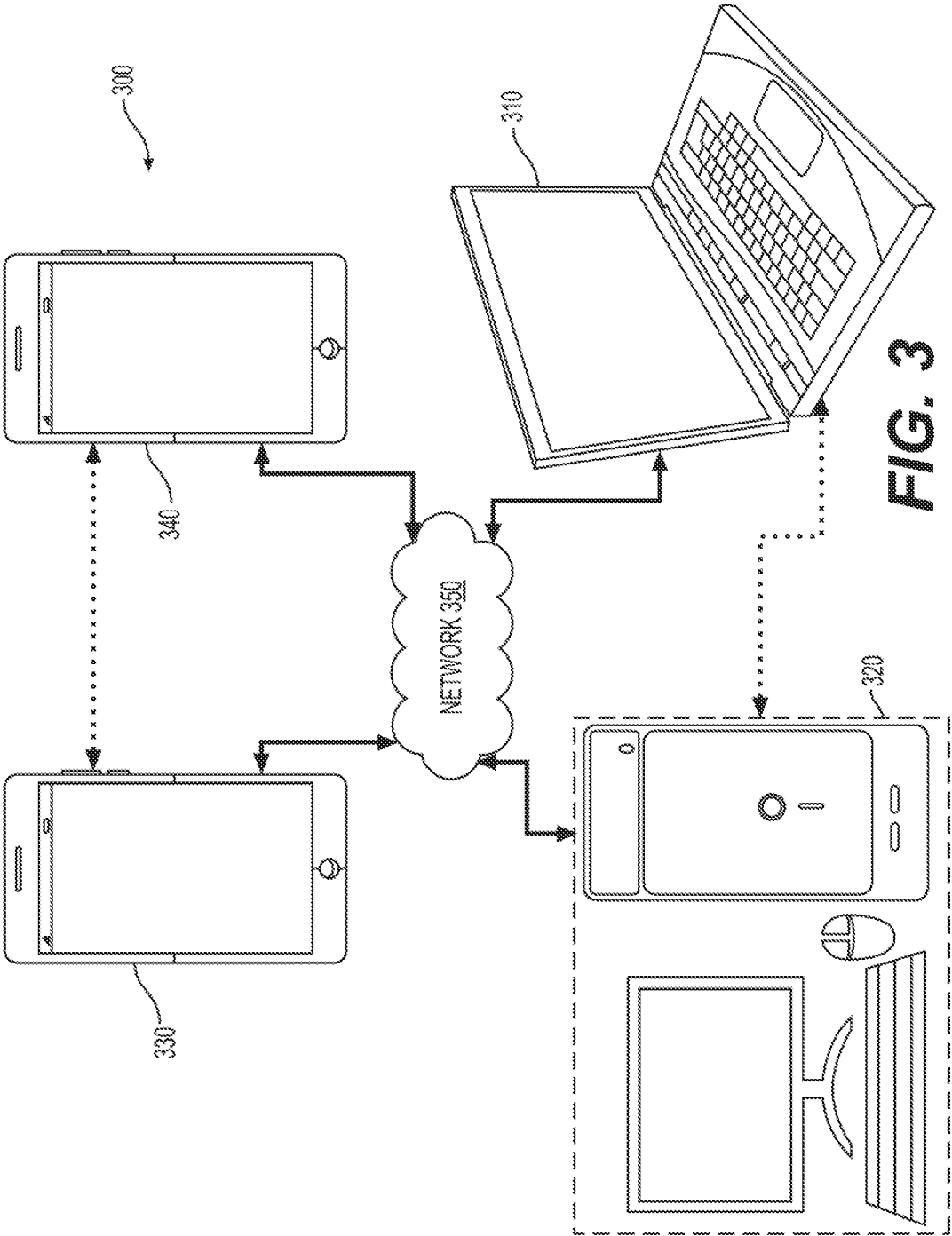


FIG. 3

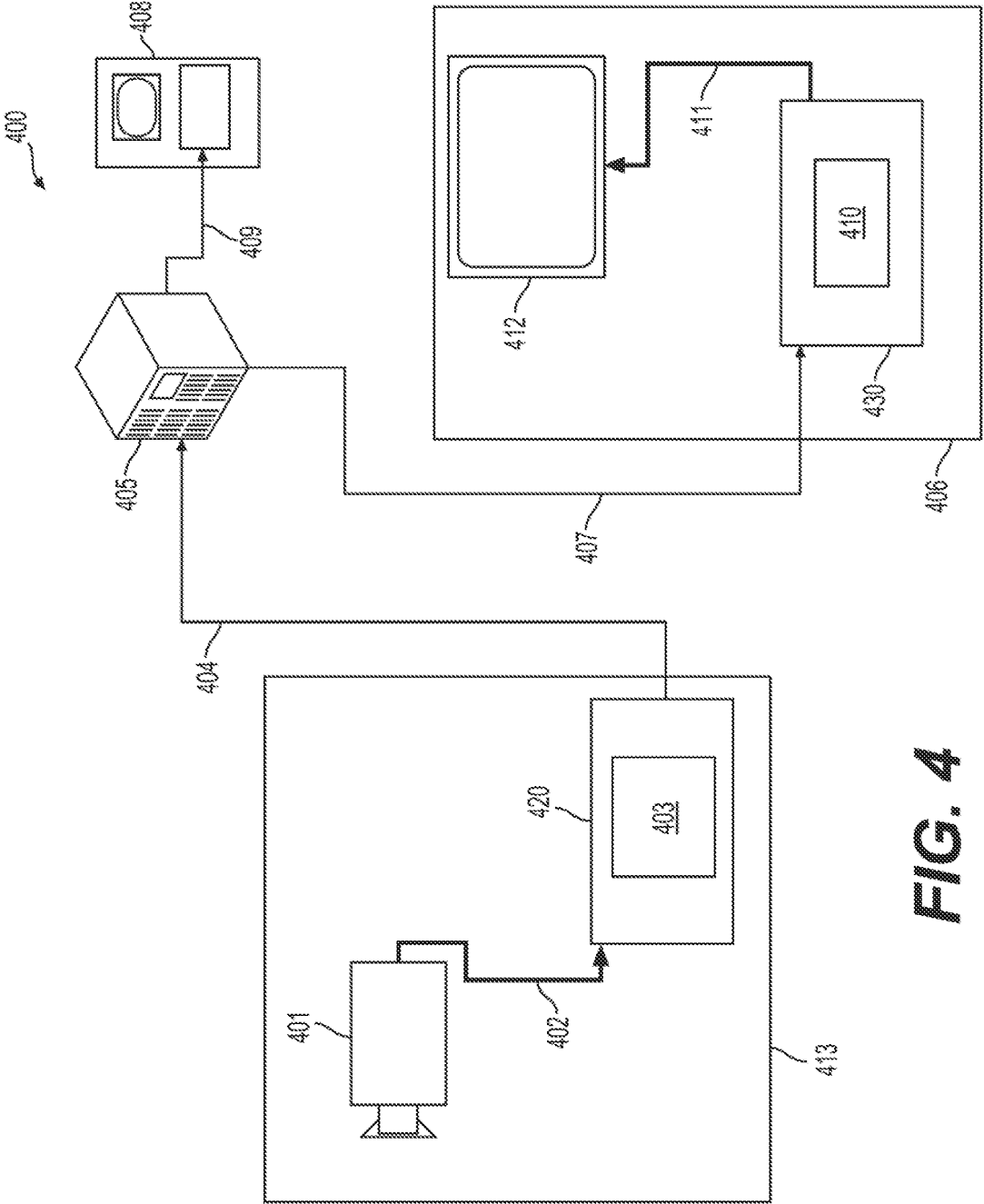
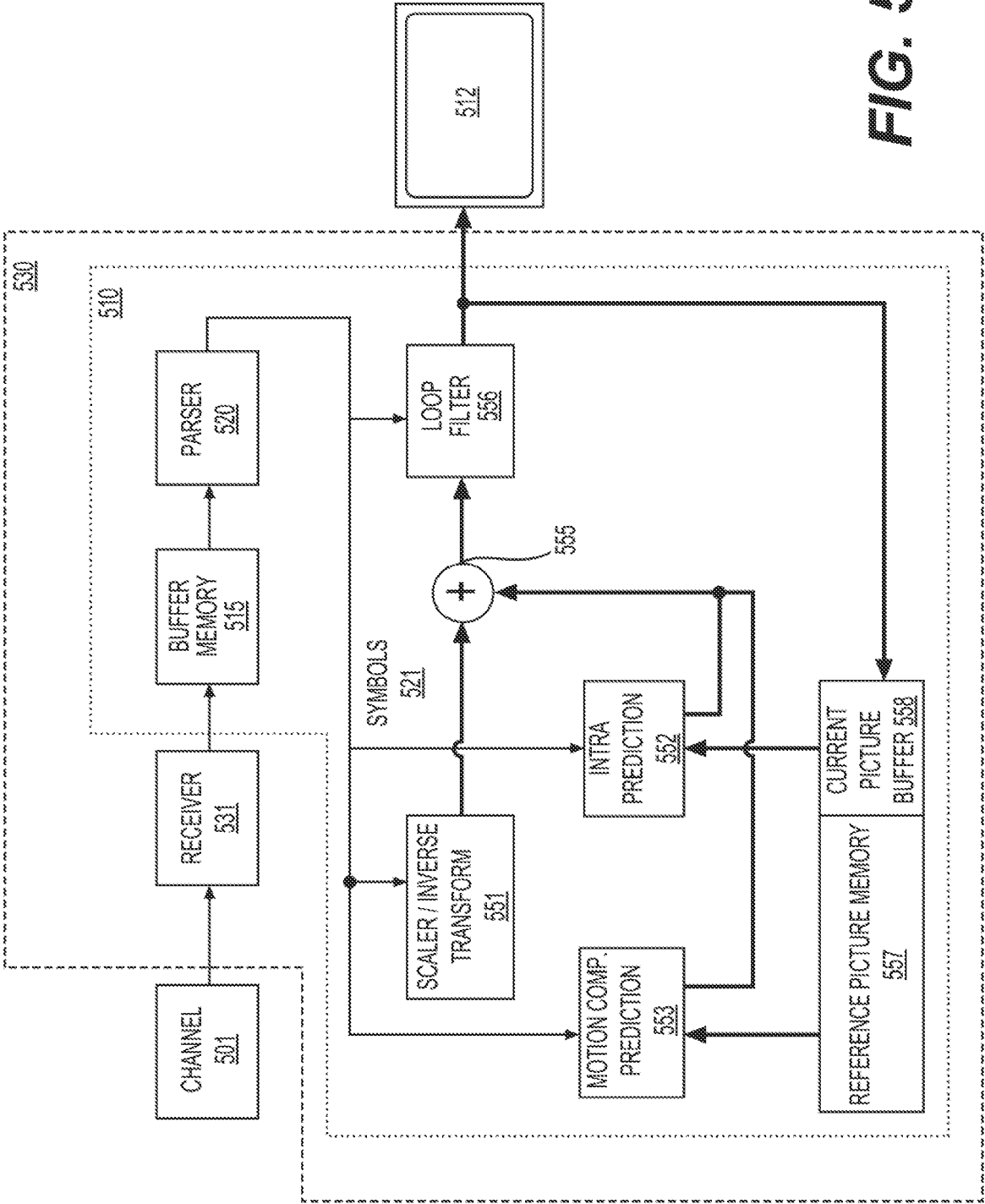
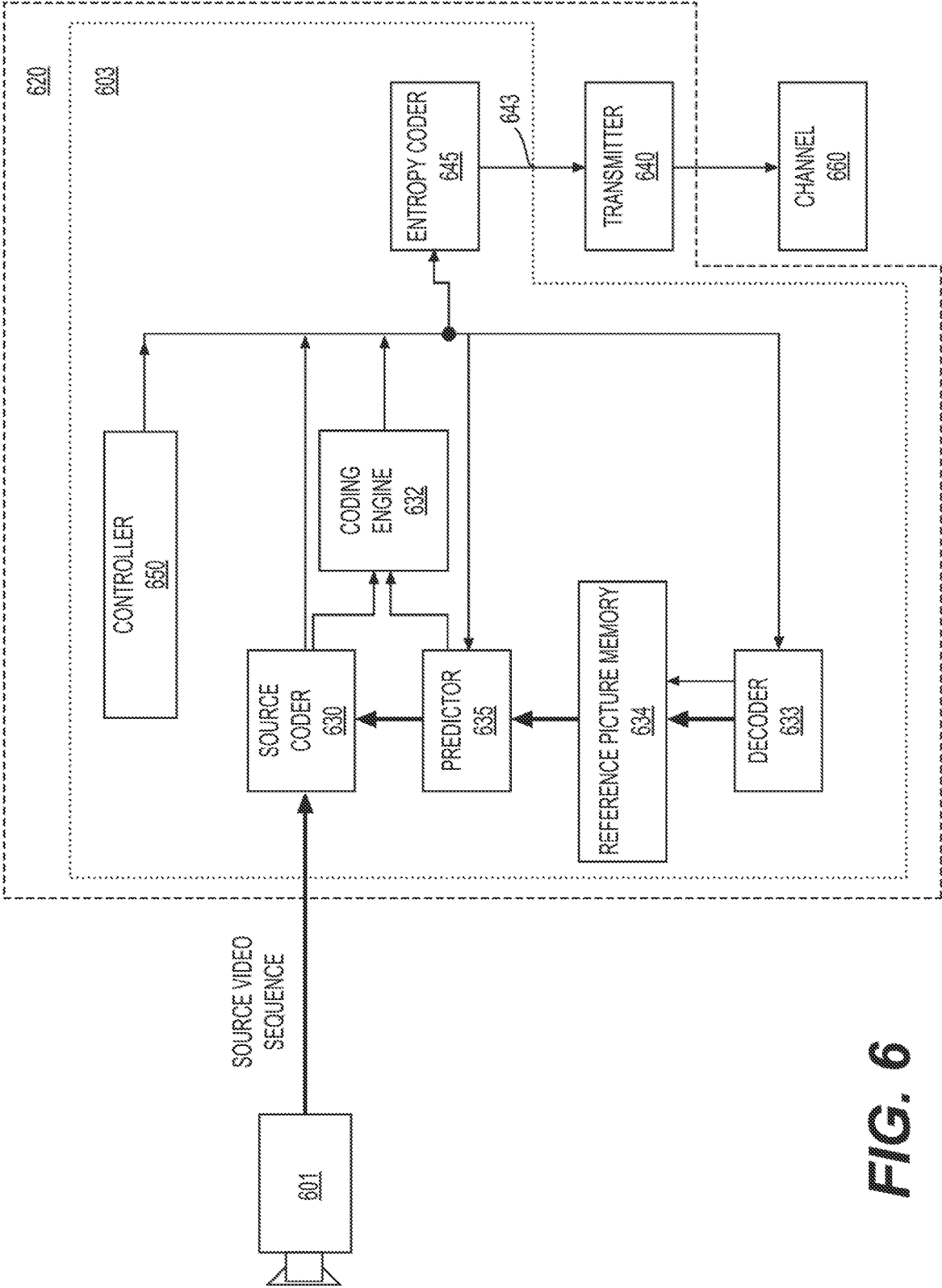


FIG. 4





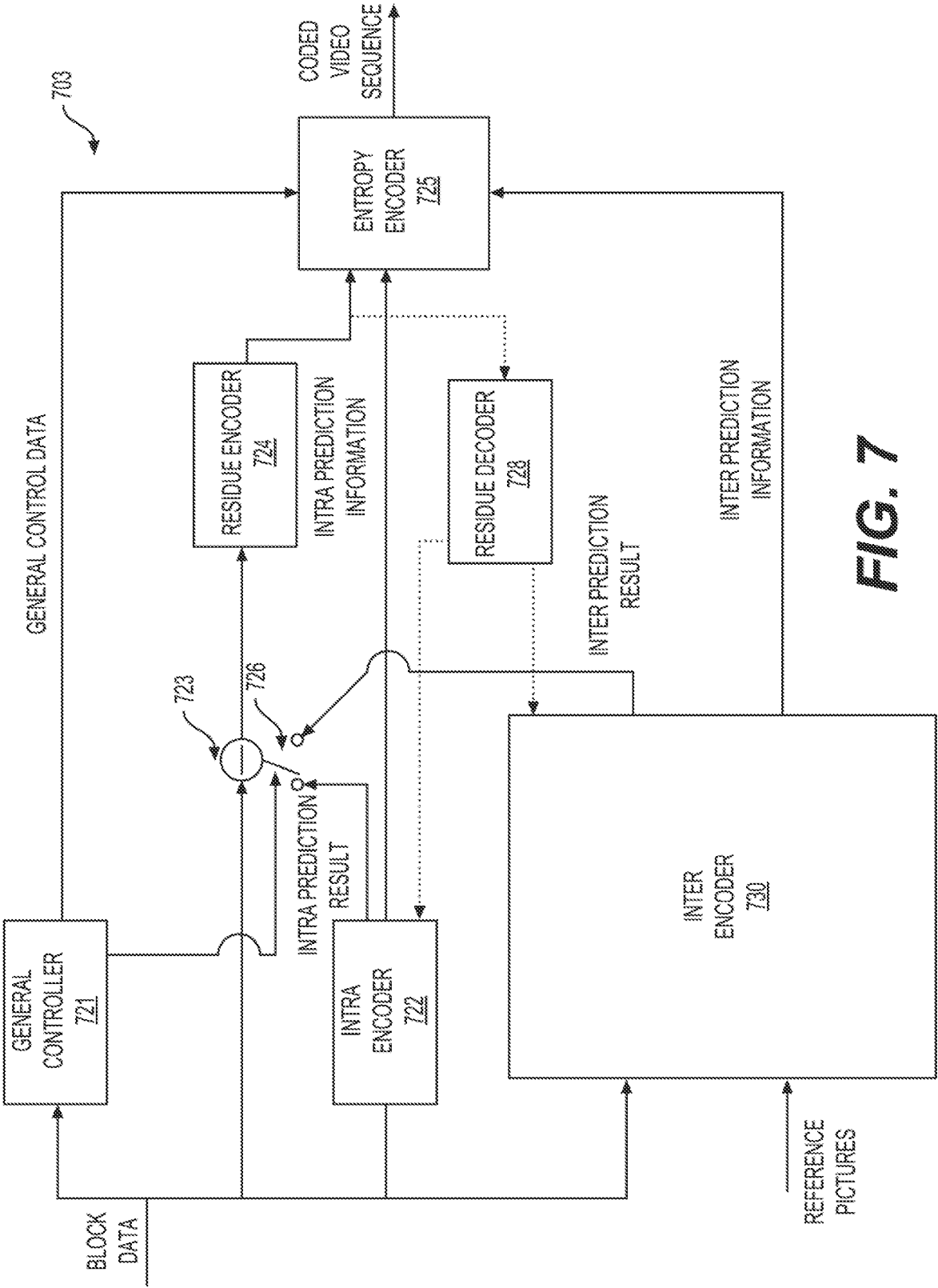


FIG. 7

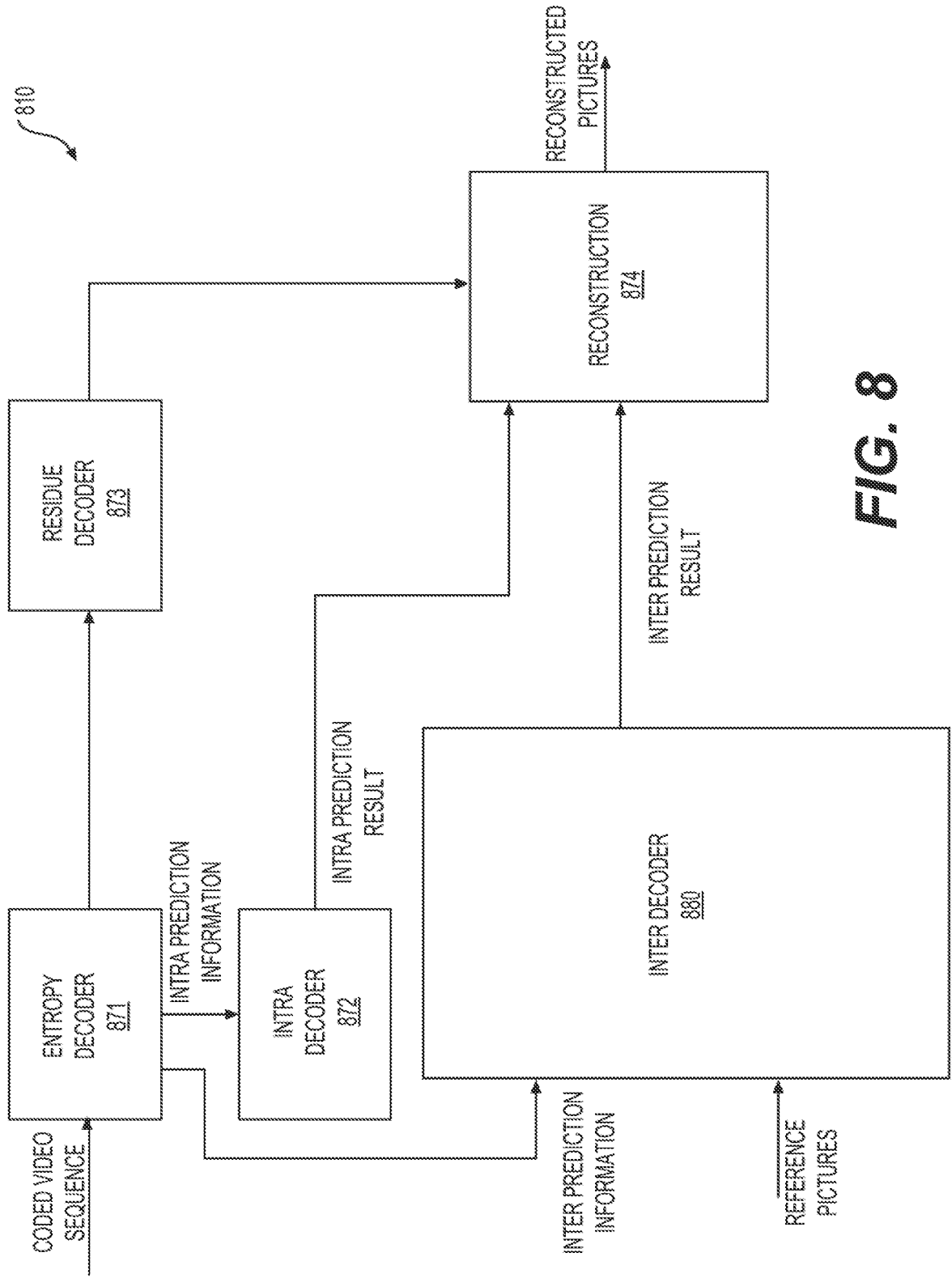


FIG. 8

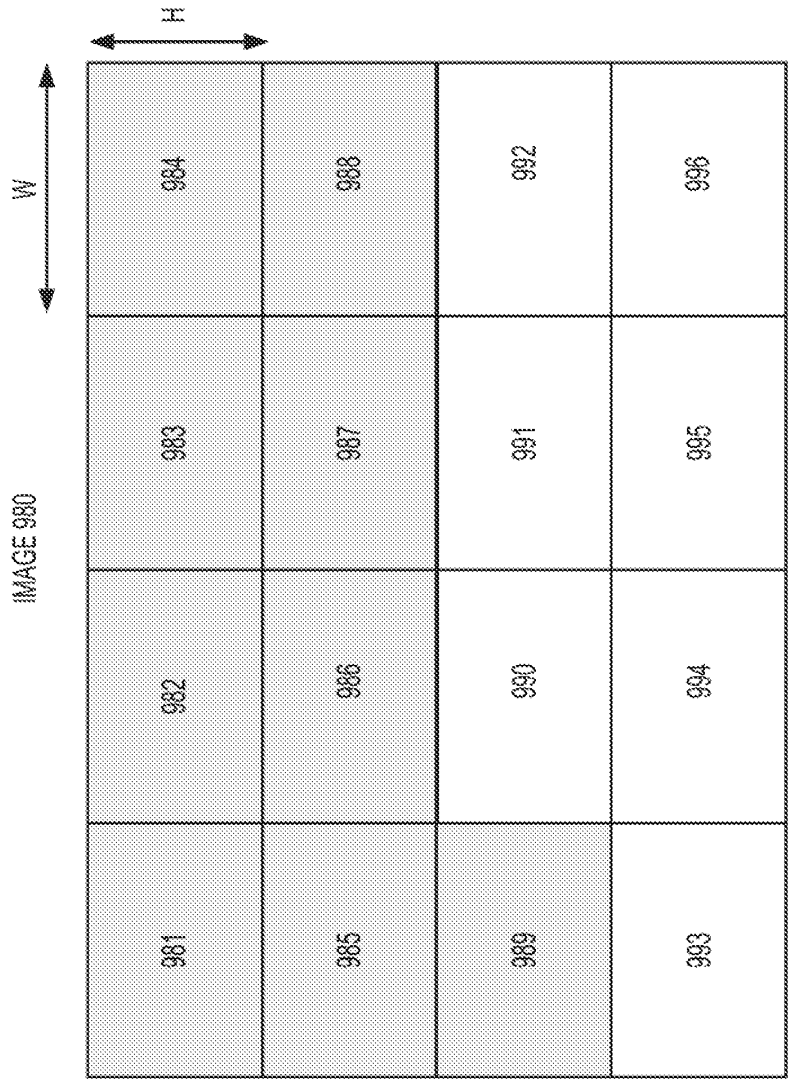


FIG. 9A

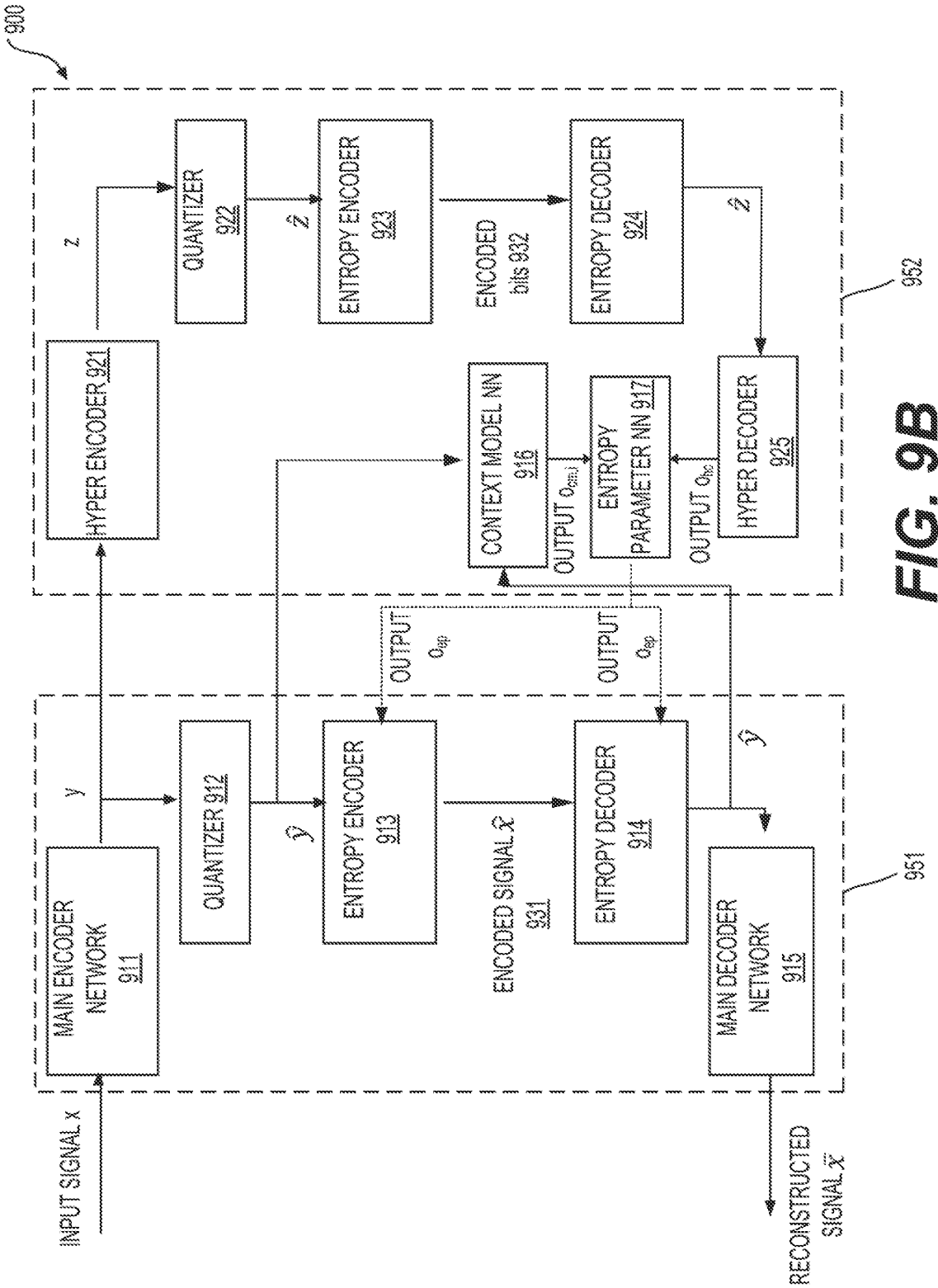


FIG. 10

Main encoder network

Conv: 5x5 c192 s2
GDN
Conv: 5x5 c192 s2
GDN
Conv: 5x5 c192 s2
GDN
Conv: 5x5 c192 s2
GDN

FIG. 11

Main decoder network

DeConv: 5x5 c192 s2
IGDN
DeConv: 5x5 c192 s2
IGDN
DeConv: 5x5 c192 s2
IGDN
DeConv: 5x5 c3 s2
IGDN

FIG. 12

Hyper encoder

Conv: 3x3 c192 s1
Leaky ReLU
Conv: 5x5 c192 s2
Leaky ReLU
Conv: 5x5 c192 s2

FIG. 13

Hyper decoder

DeConv: 5x5 c192 s2
Leaky ReLU
DeConv: 5x5 c288 s2
Leaky ReLU
DeConv: 3x3 c384 s1

FIG. 14

Context model NN

Masked: 5x5 c384 s1

FIG. 15

Entropy parameter NN

Conv: 1x1 c640 s1
Leaky ReLU
Conv: 1x1 c512 s1
Leaky ReLU
Conv: 1x1 c384 s1

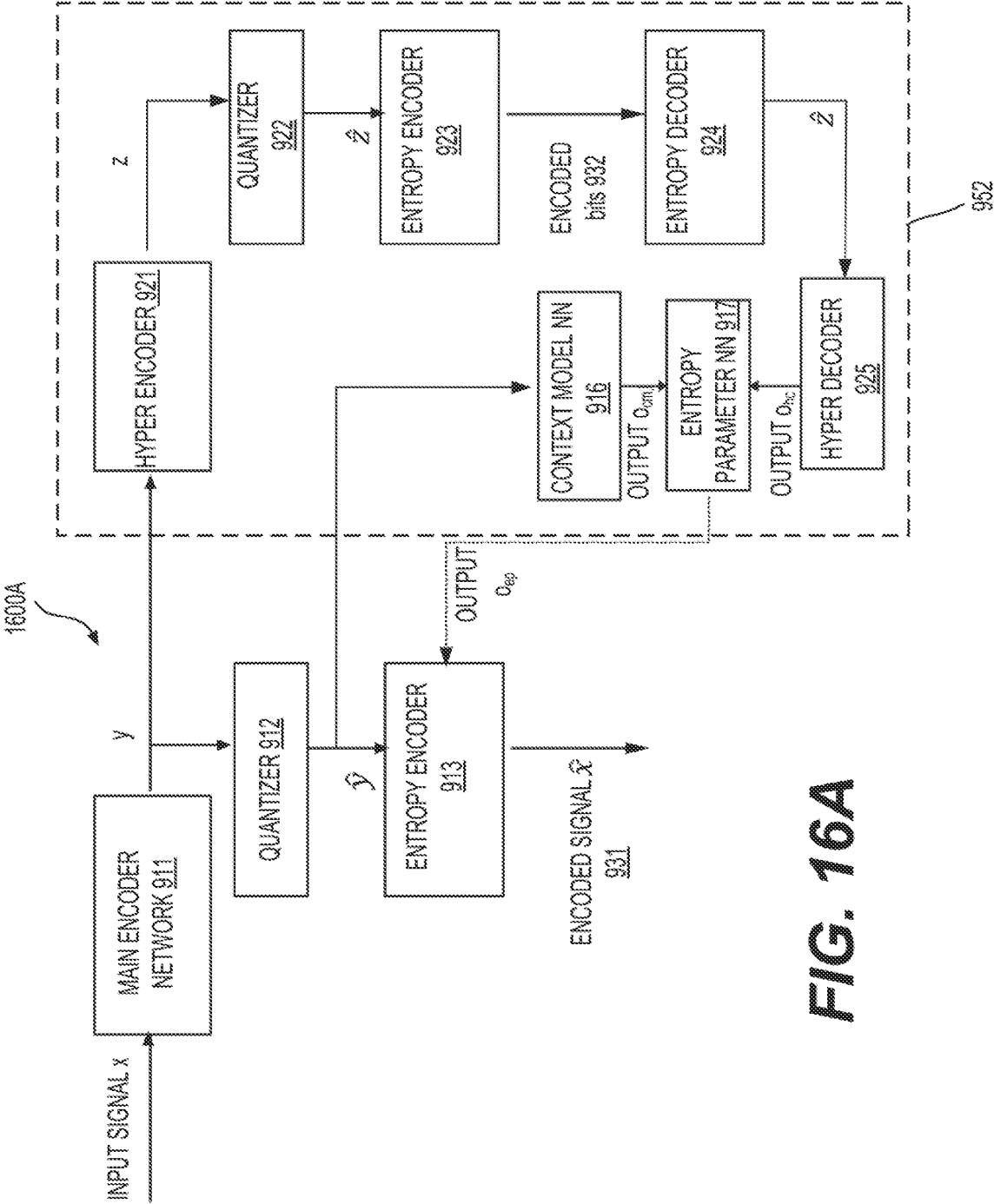


FIG. 16A

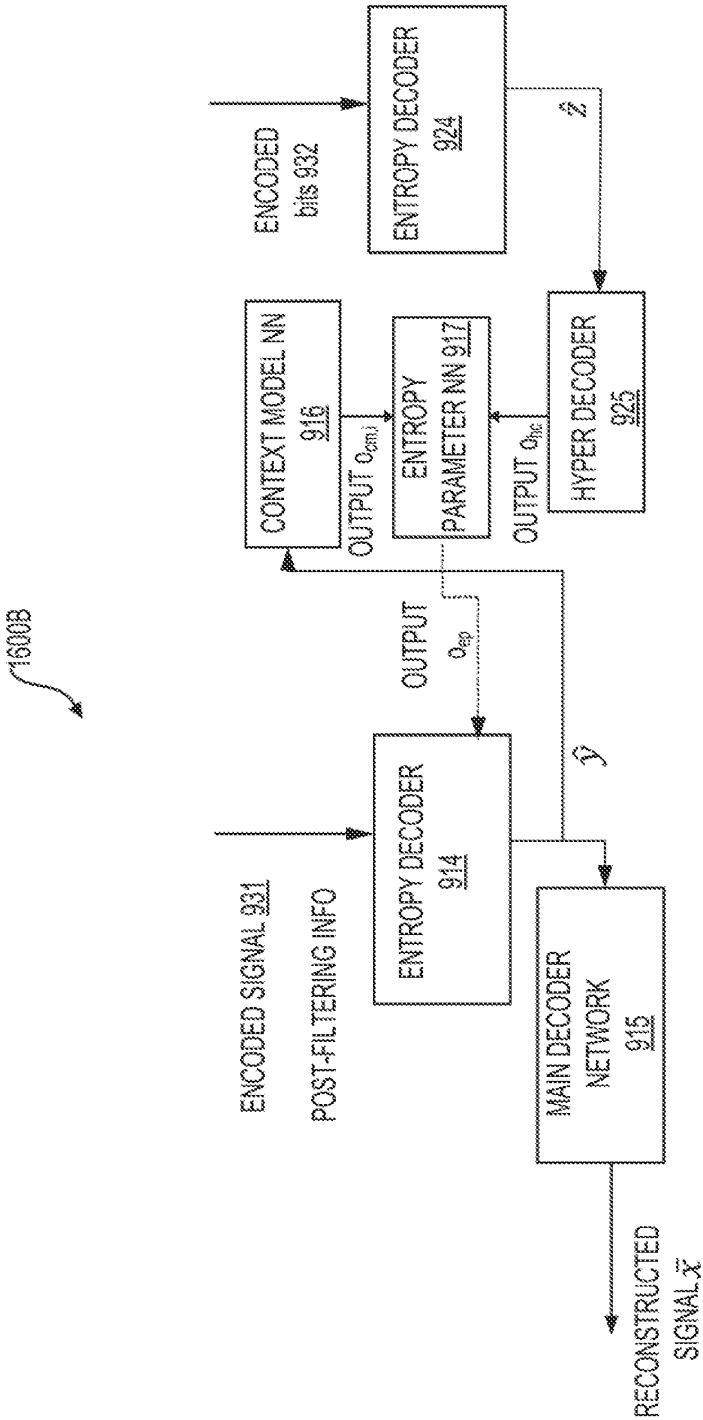


FIG. 16B

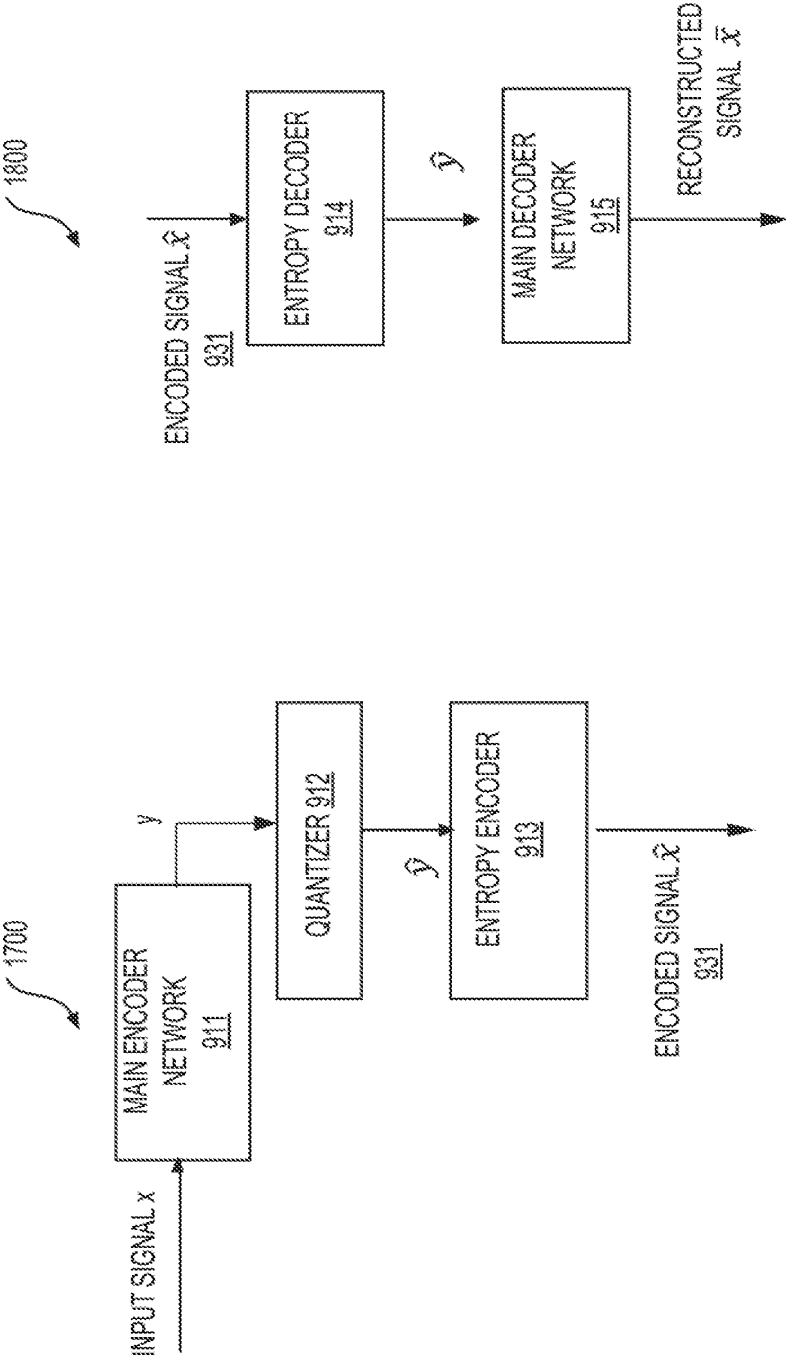


FIG. 18

FIG. 17

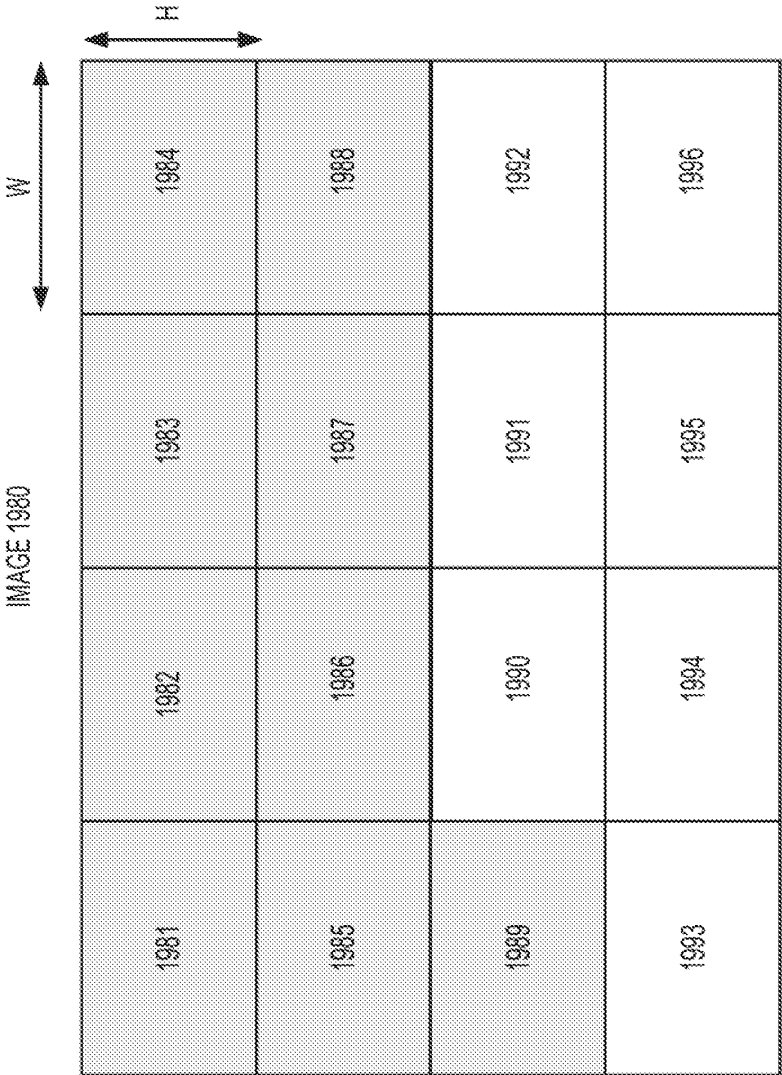
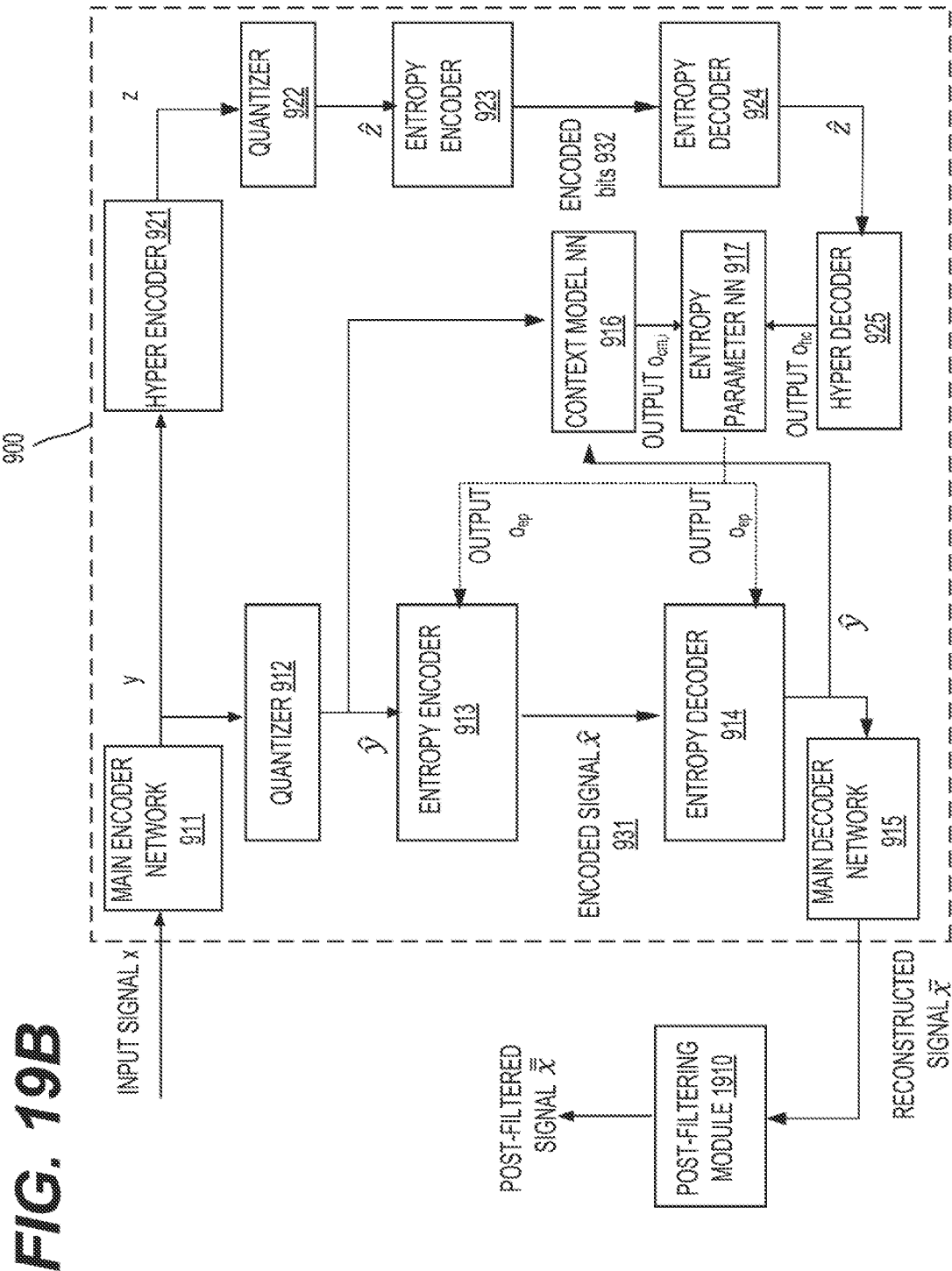


FIG. 19A



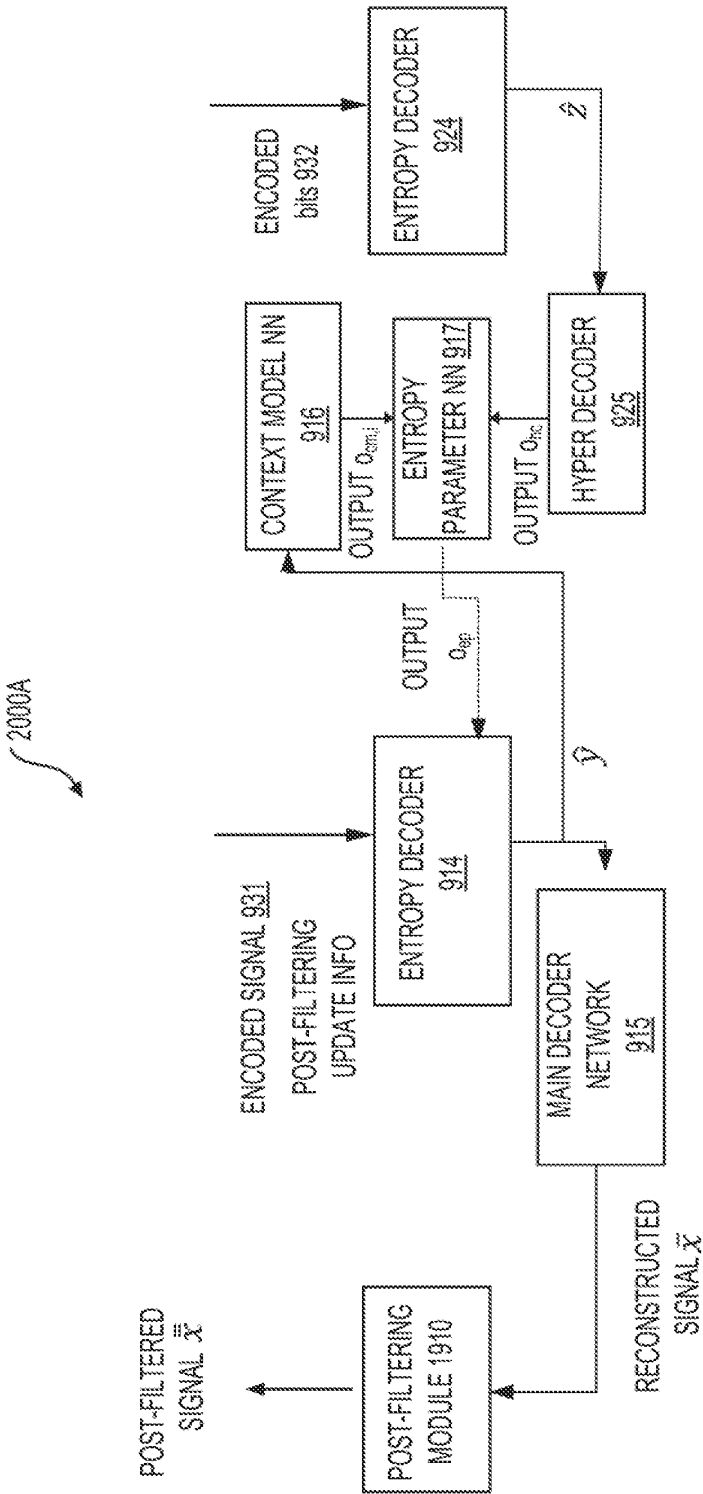


FIG. 20A

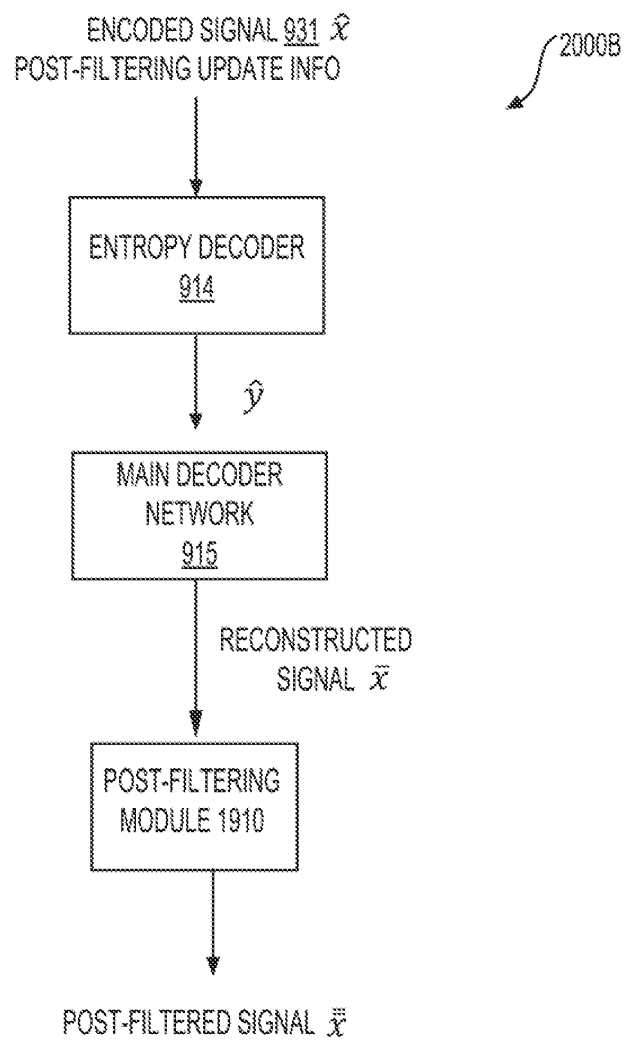
**FIG. 20B**

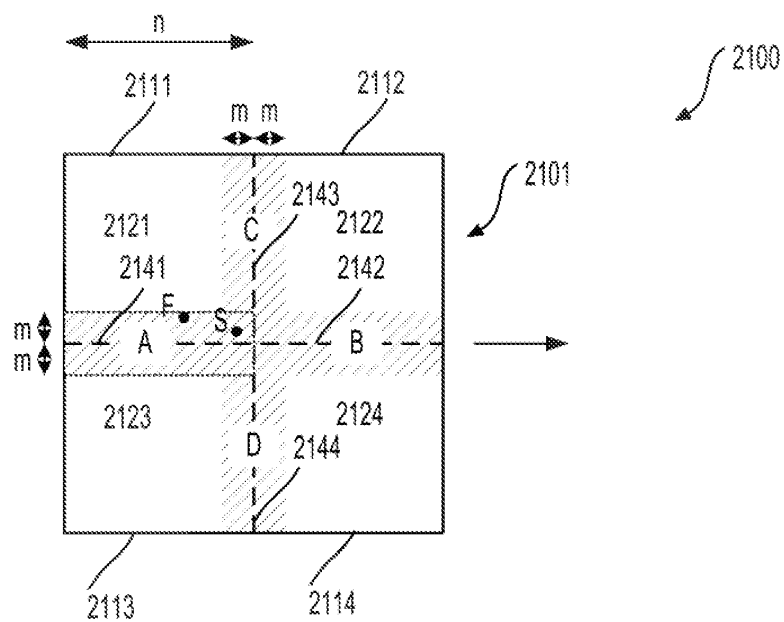
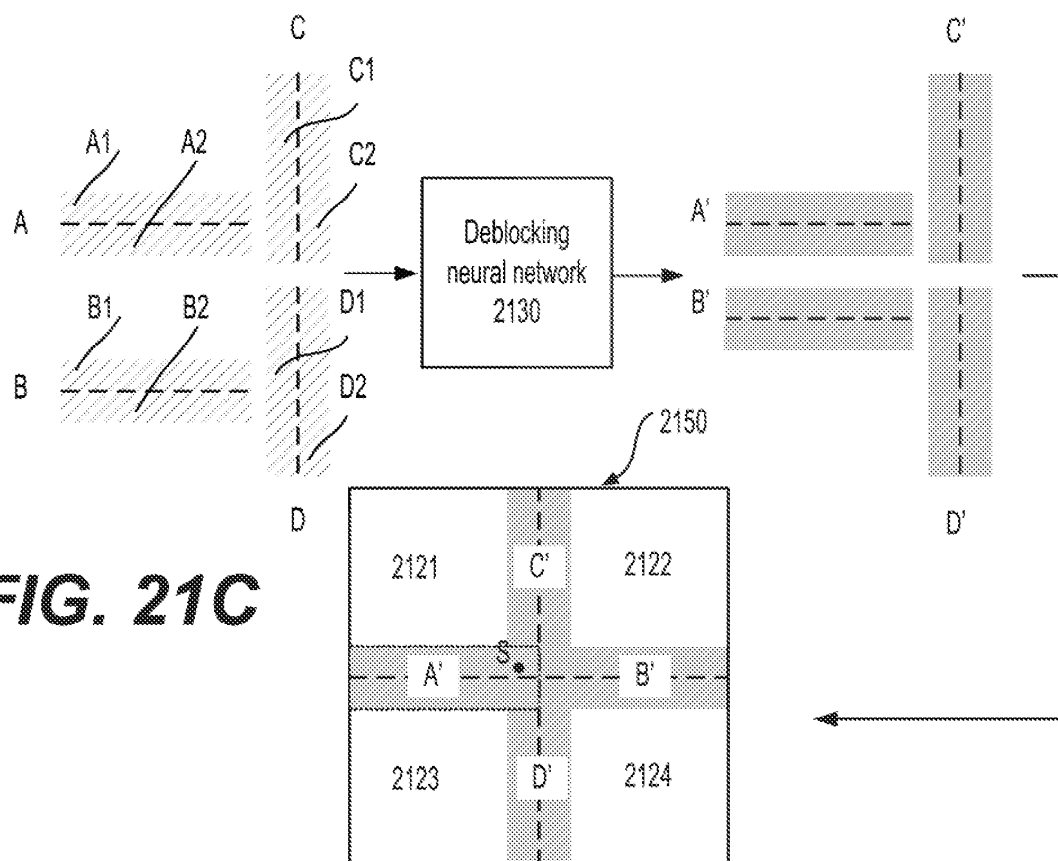
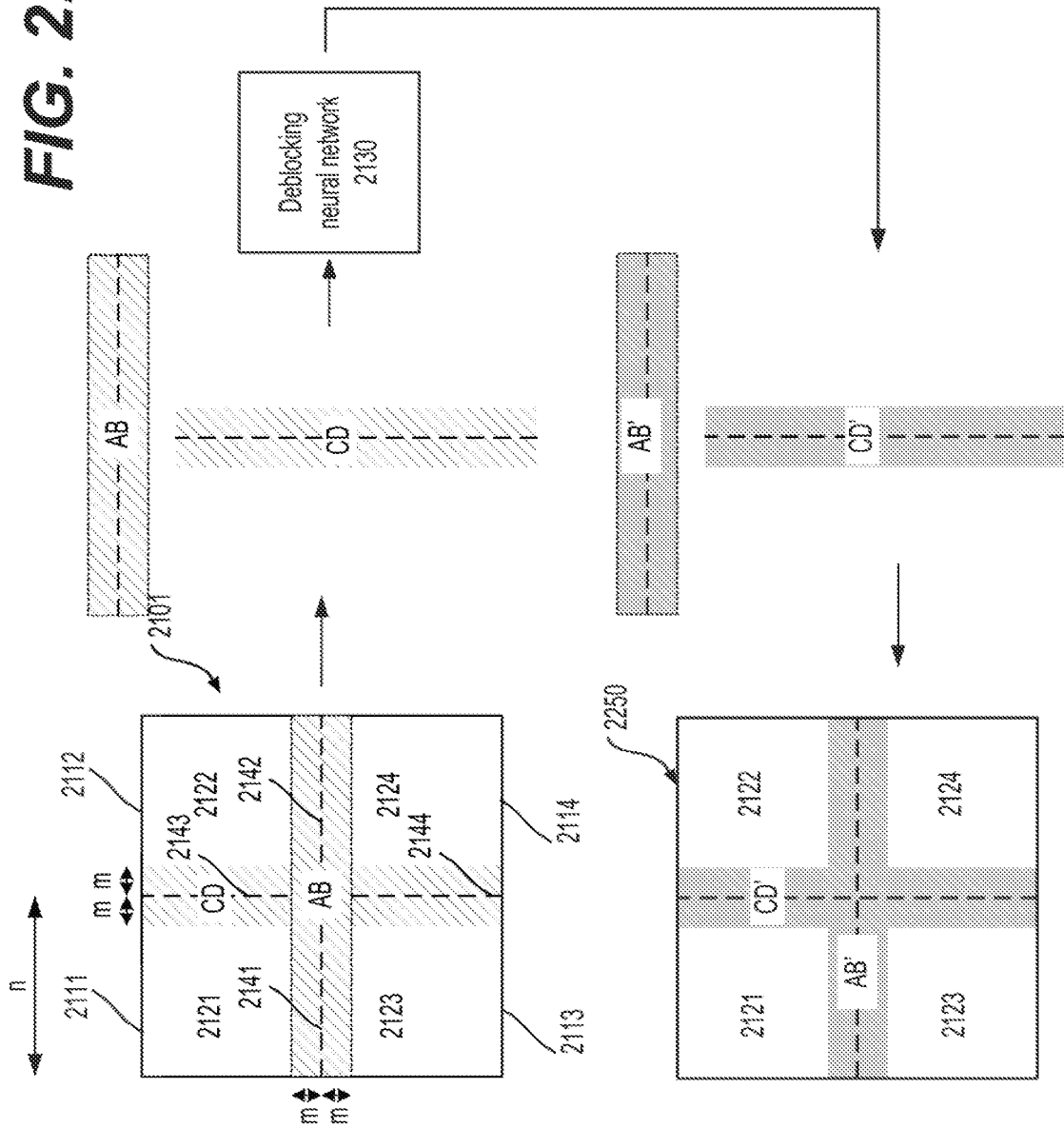
FIG. 21A**FIG. 21B****FIG. 21C**

FIG. 22



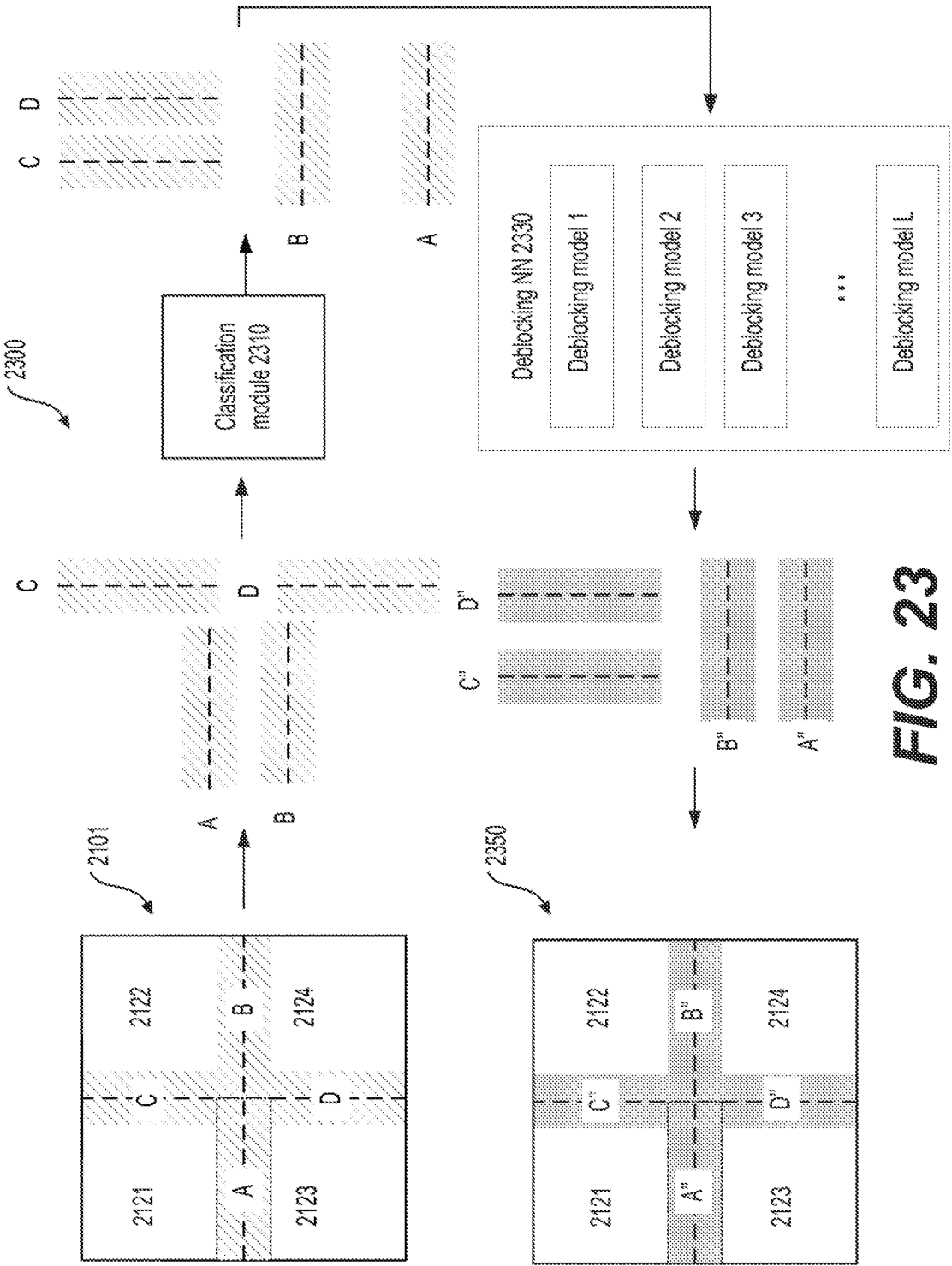


FIG. 23

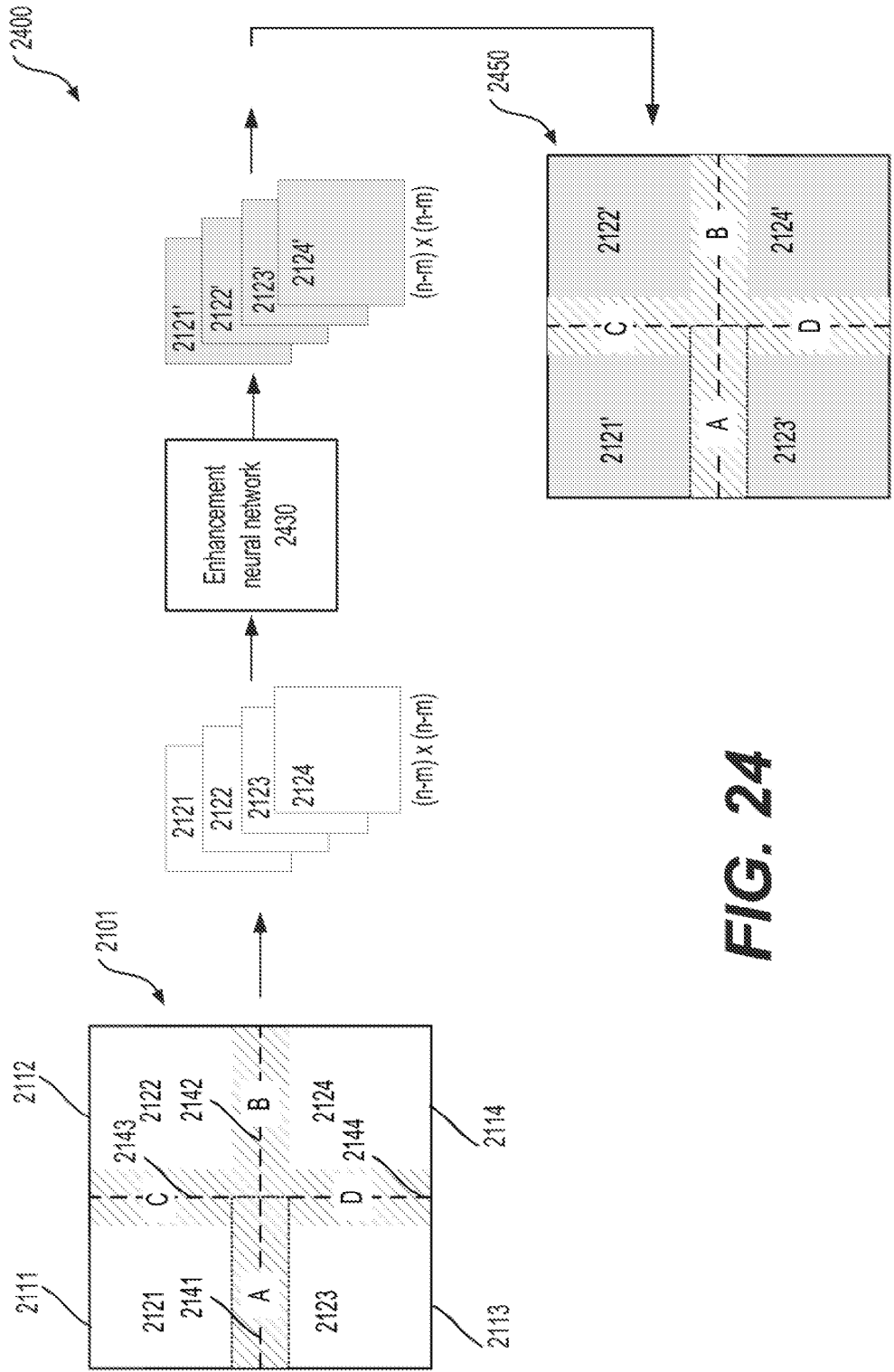


FIG. 24

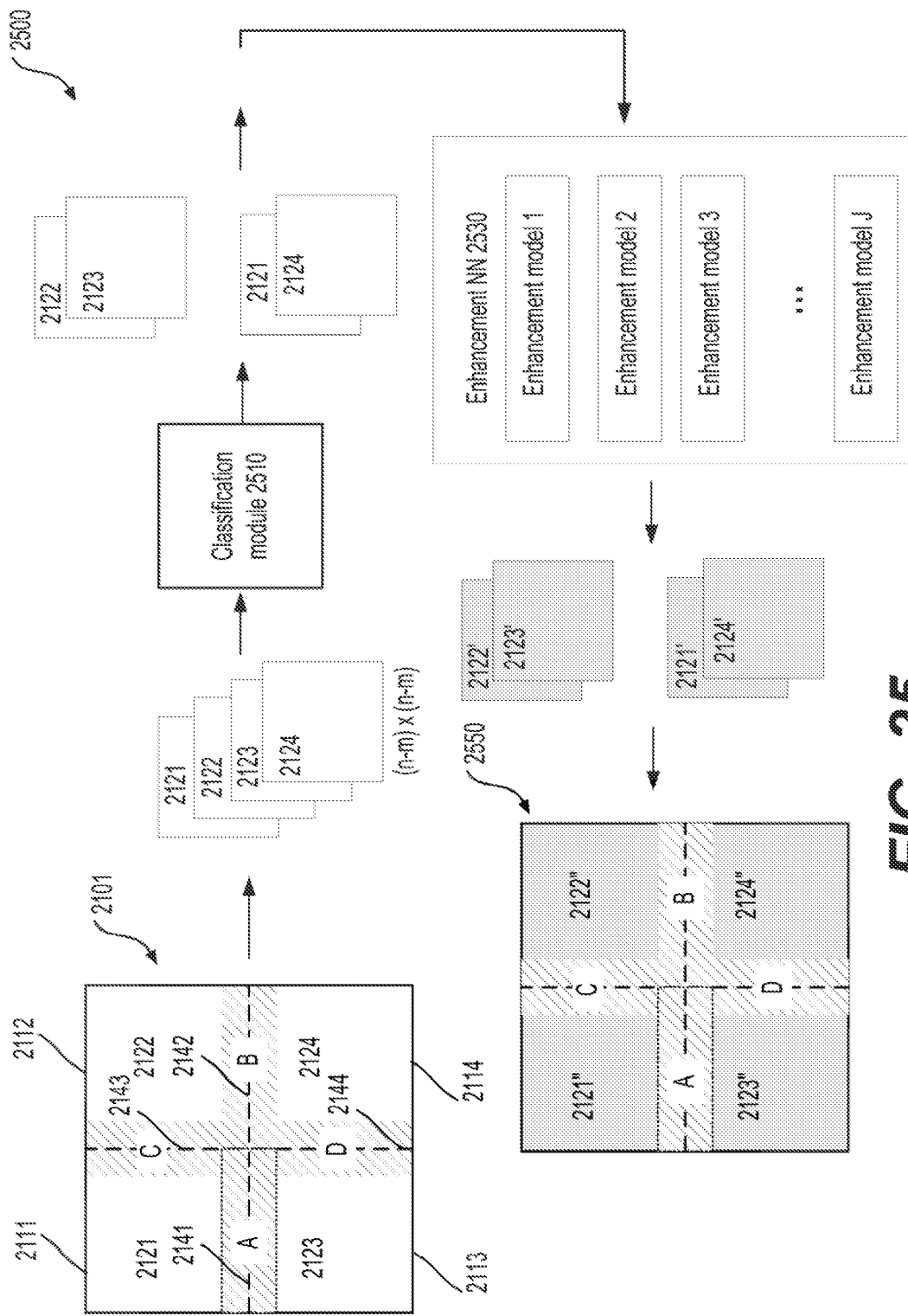


FIG. 25

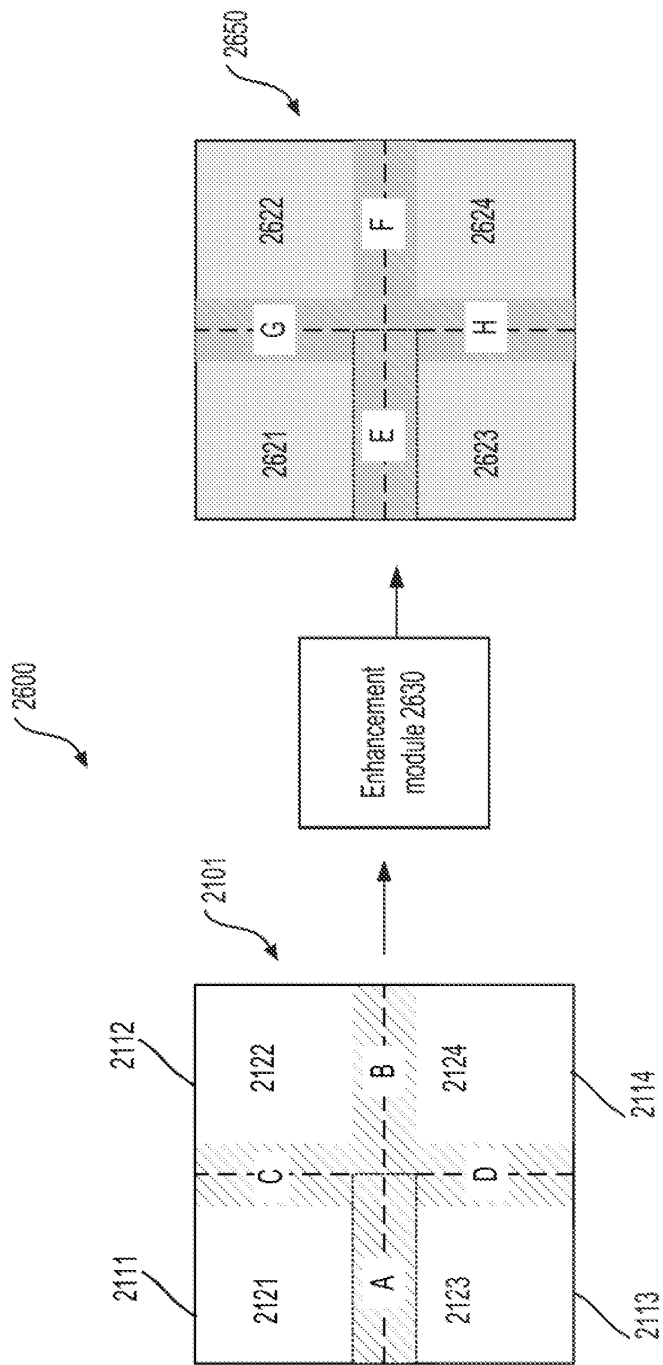
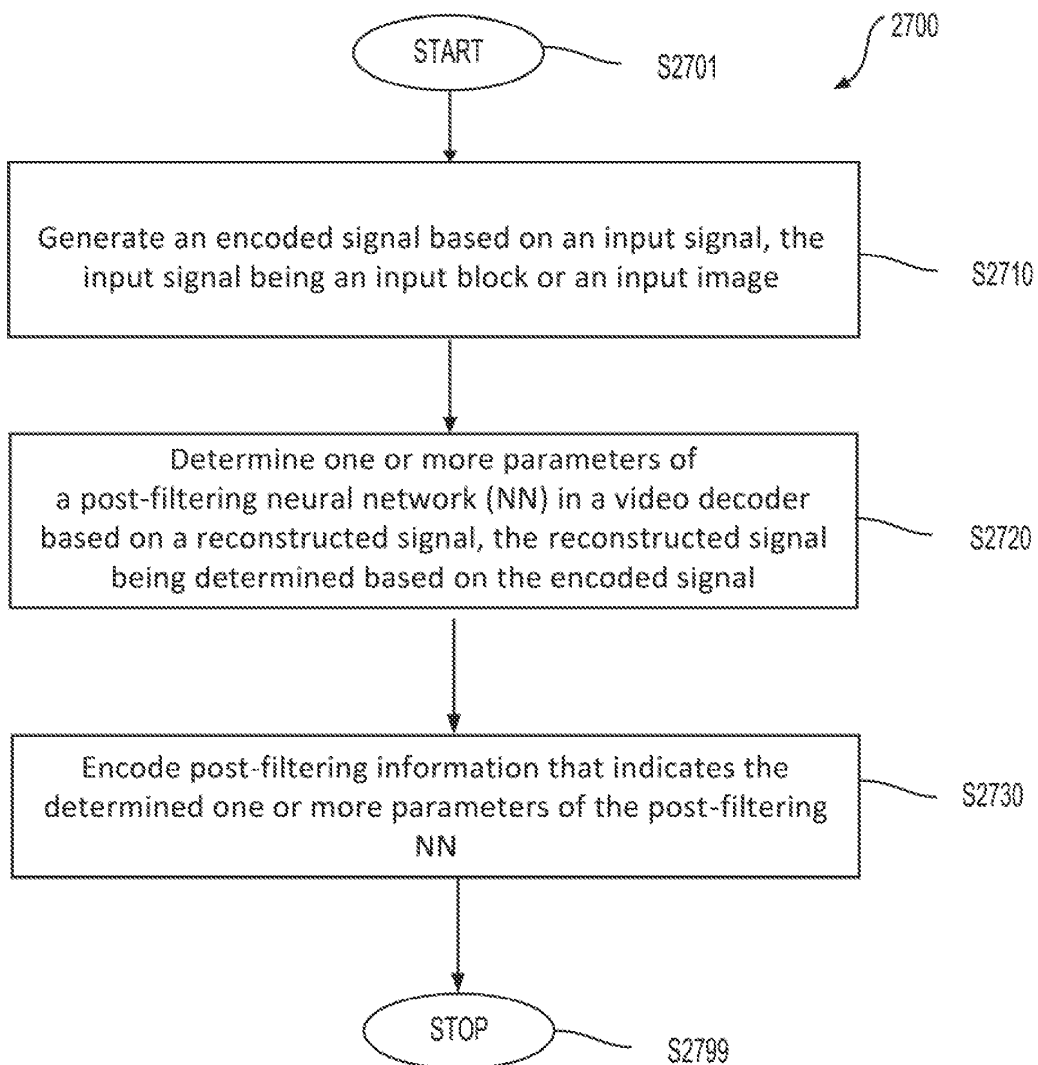
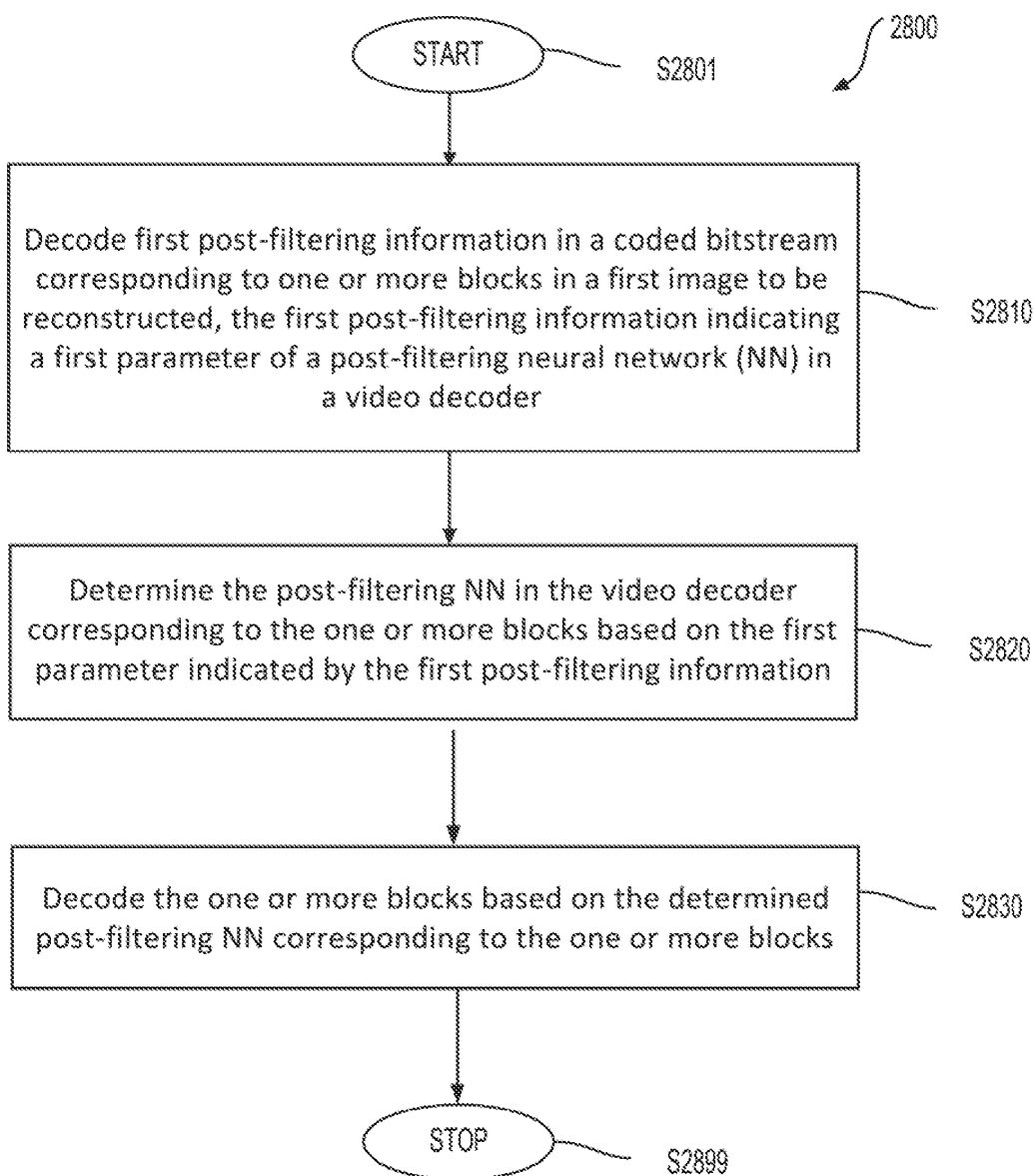


FIG. 26

**FIG. 27**

**FIG. 28**

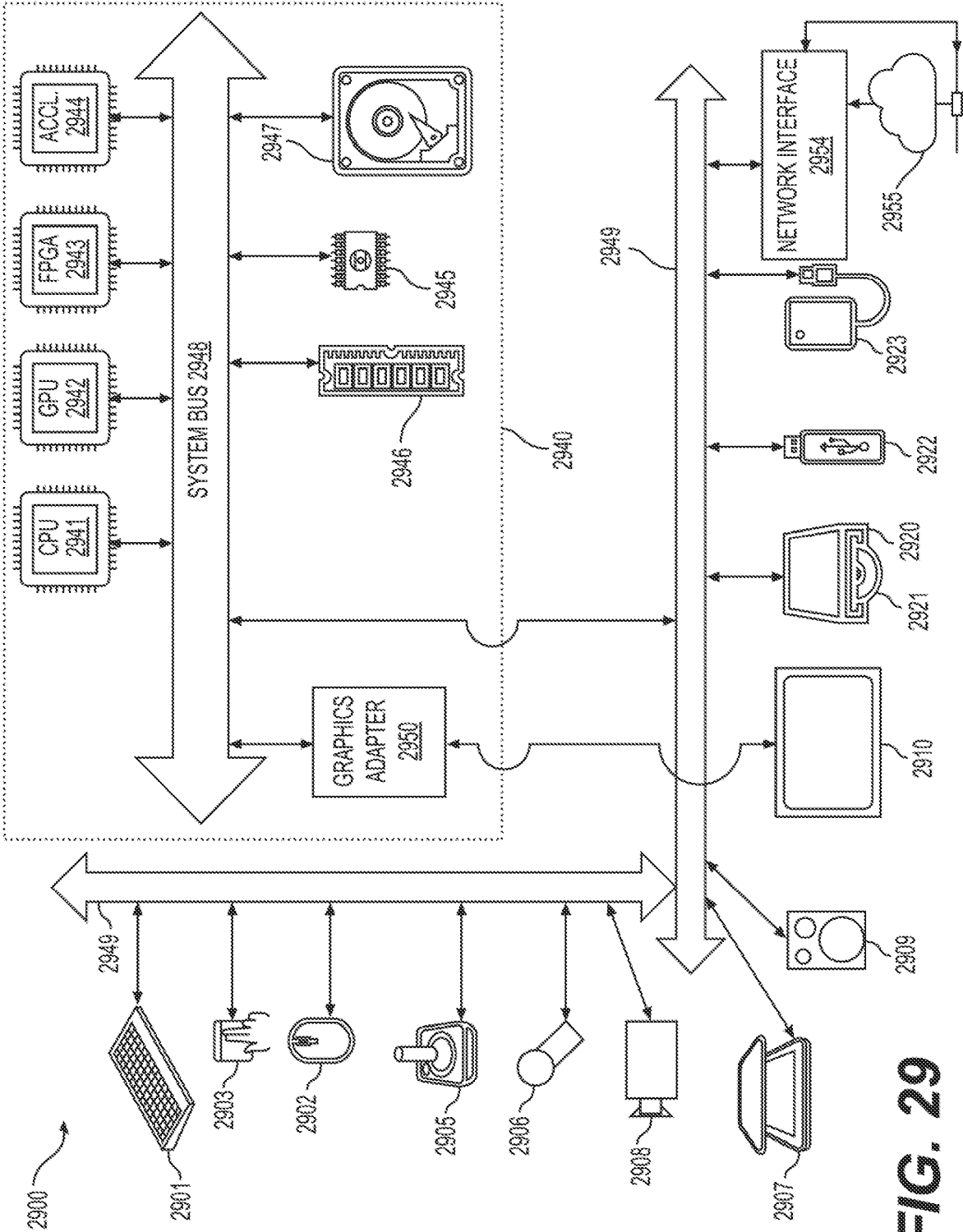


FIG. 29