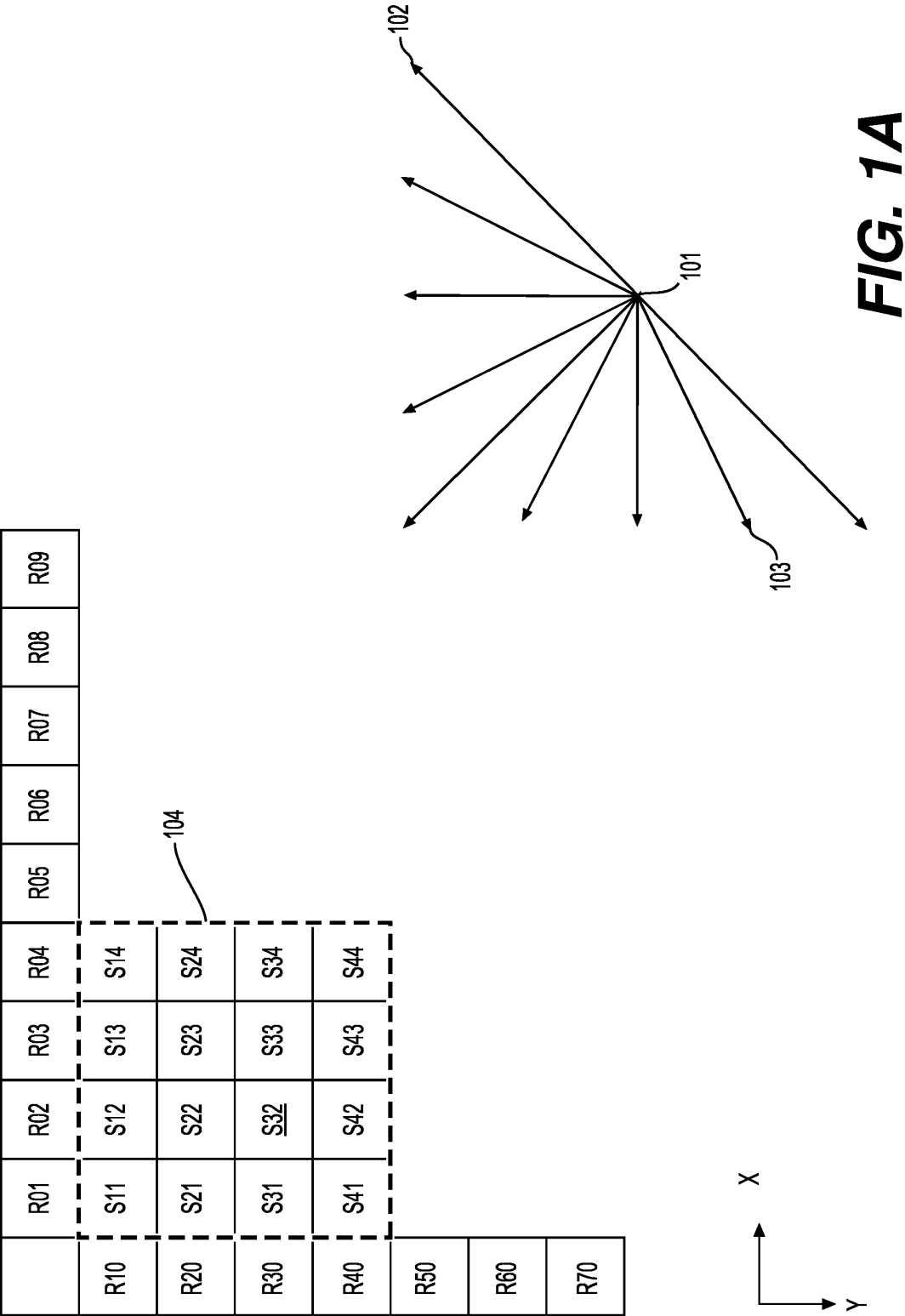
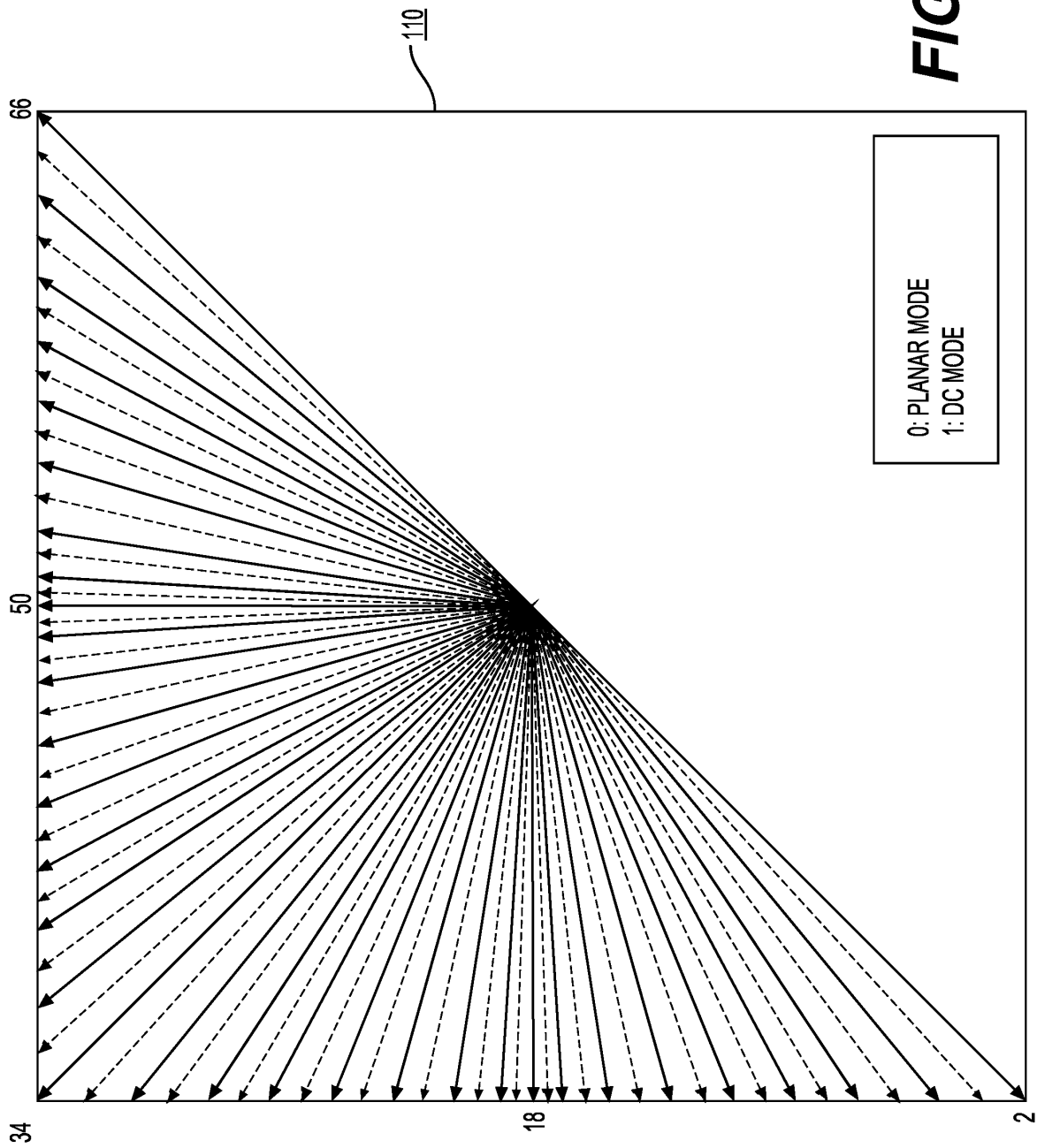






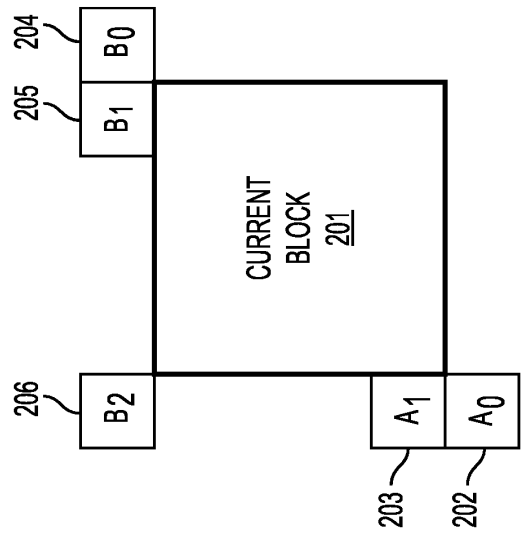


FIG. 2
(Related Art)

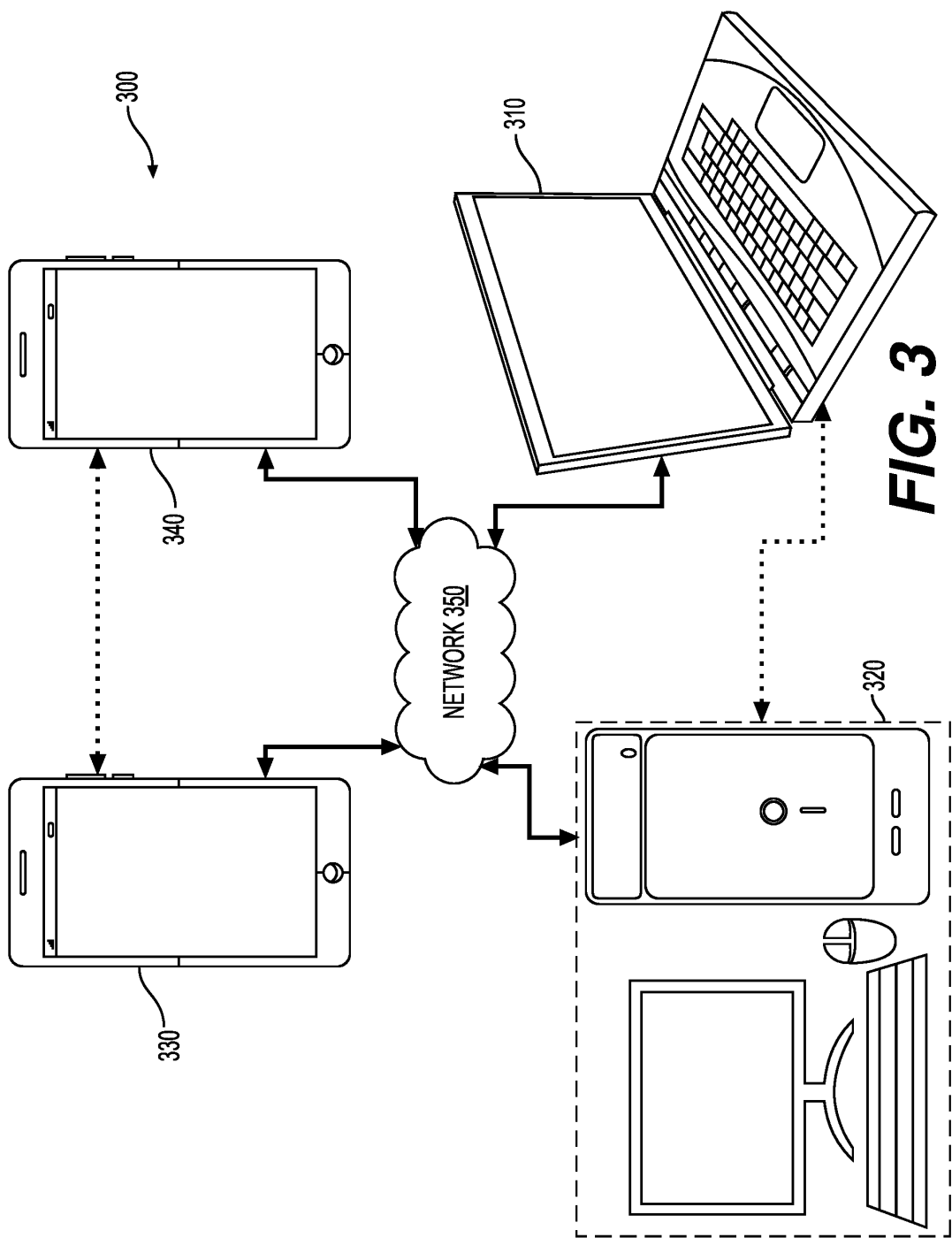


FIG. 3

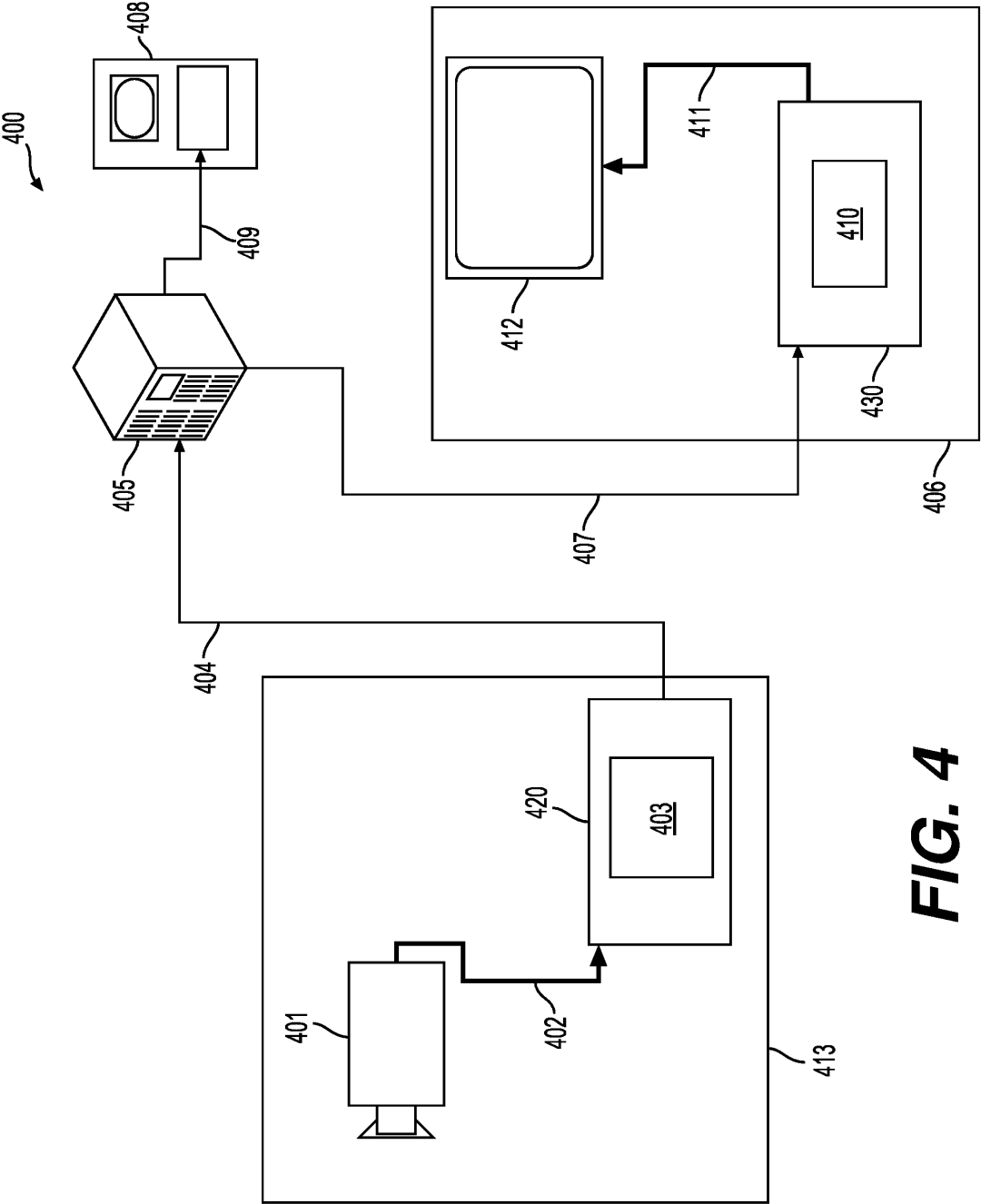


FIG. 4

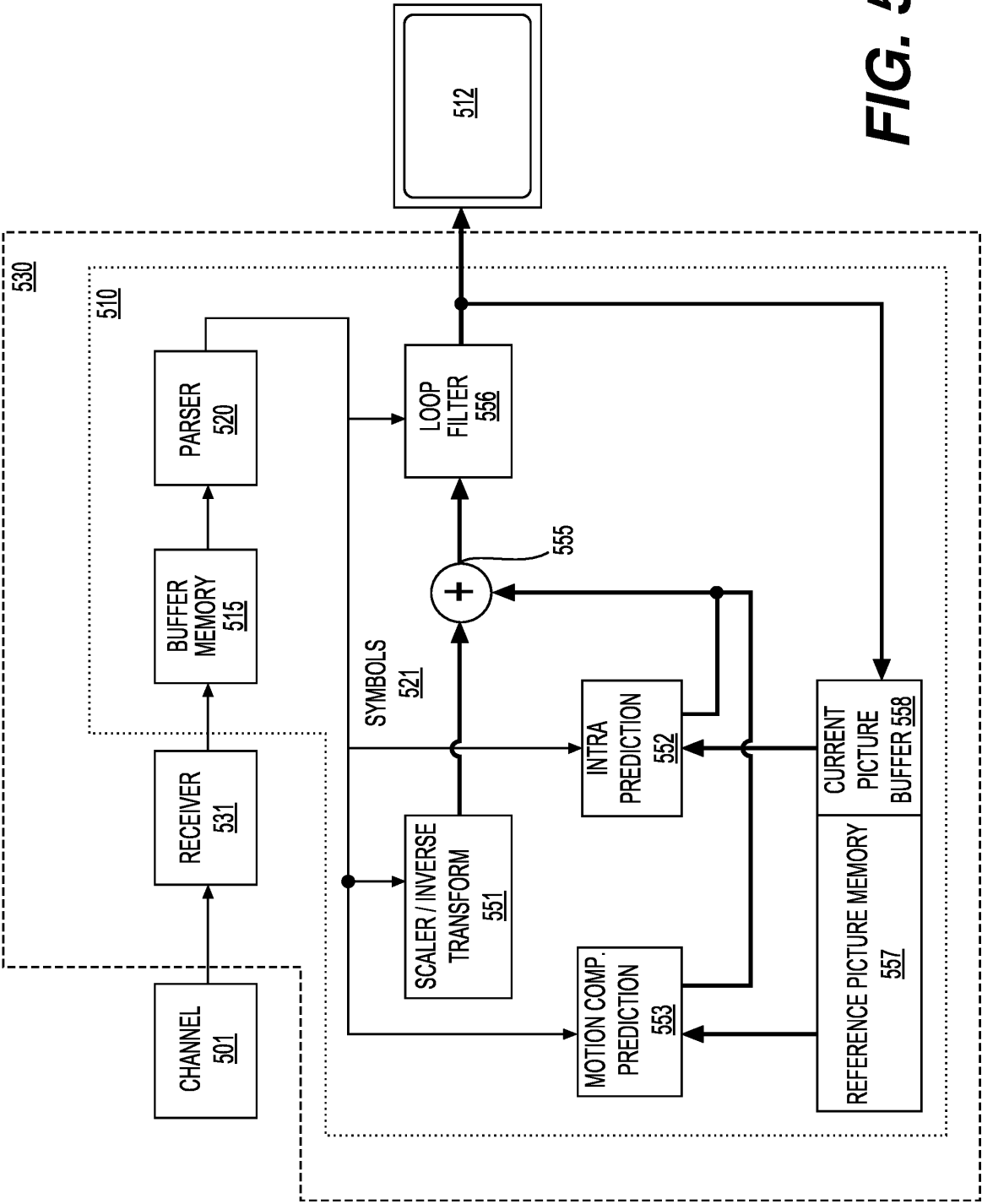
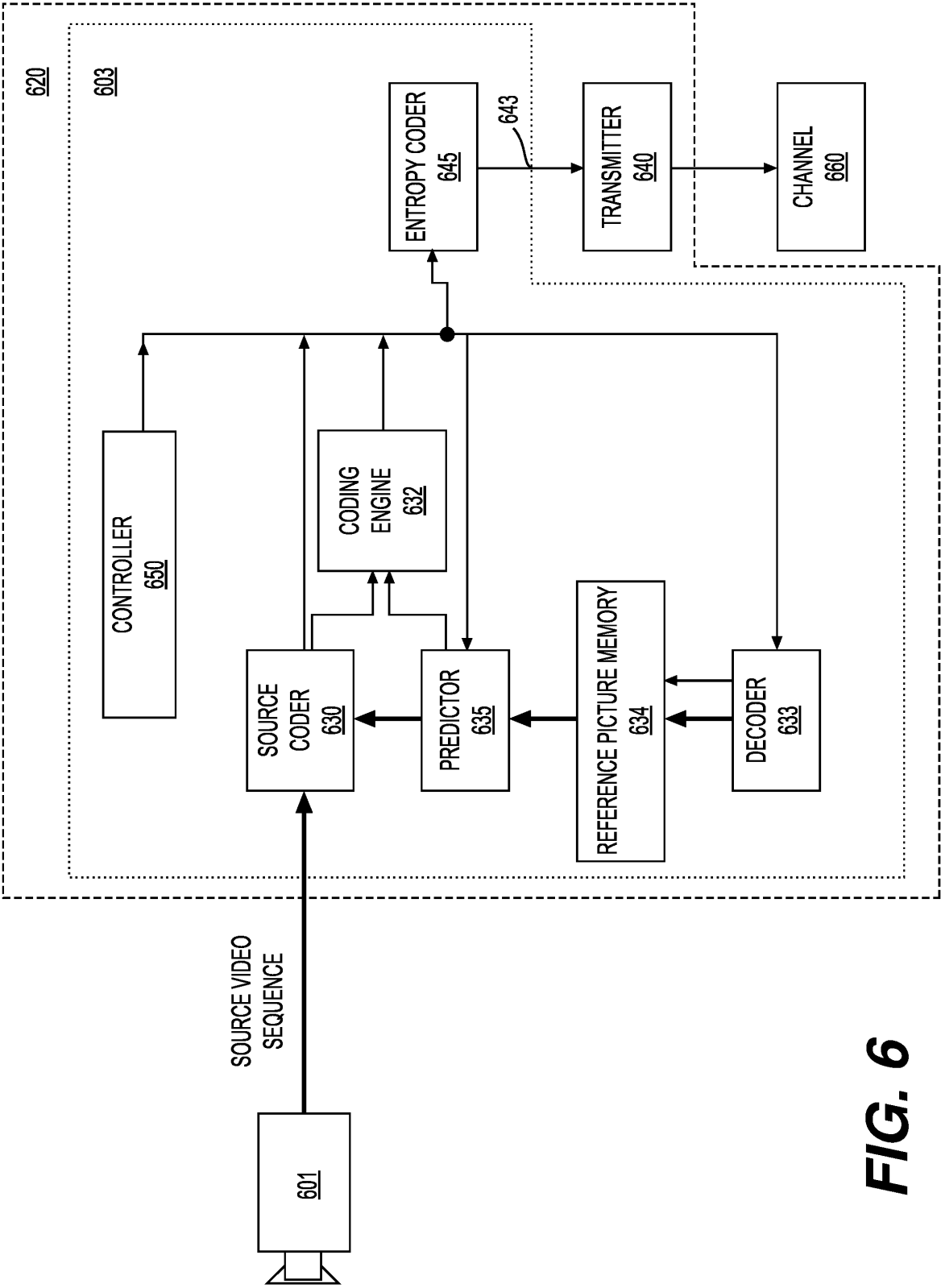


FIG. 5



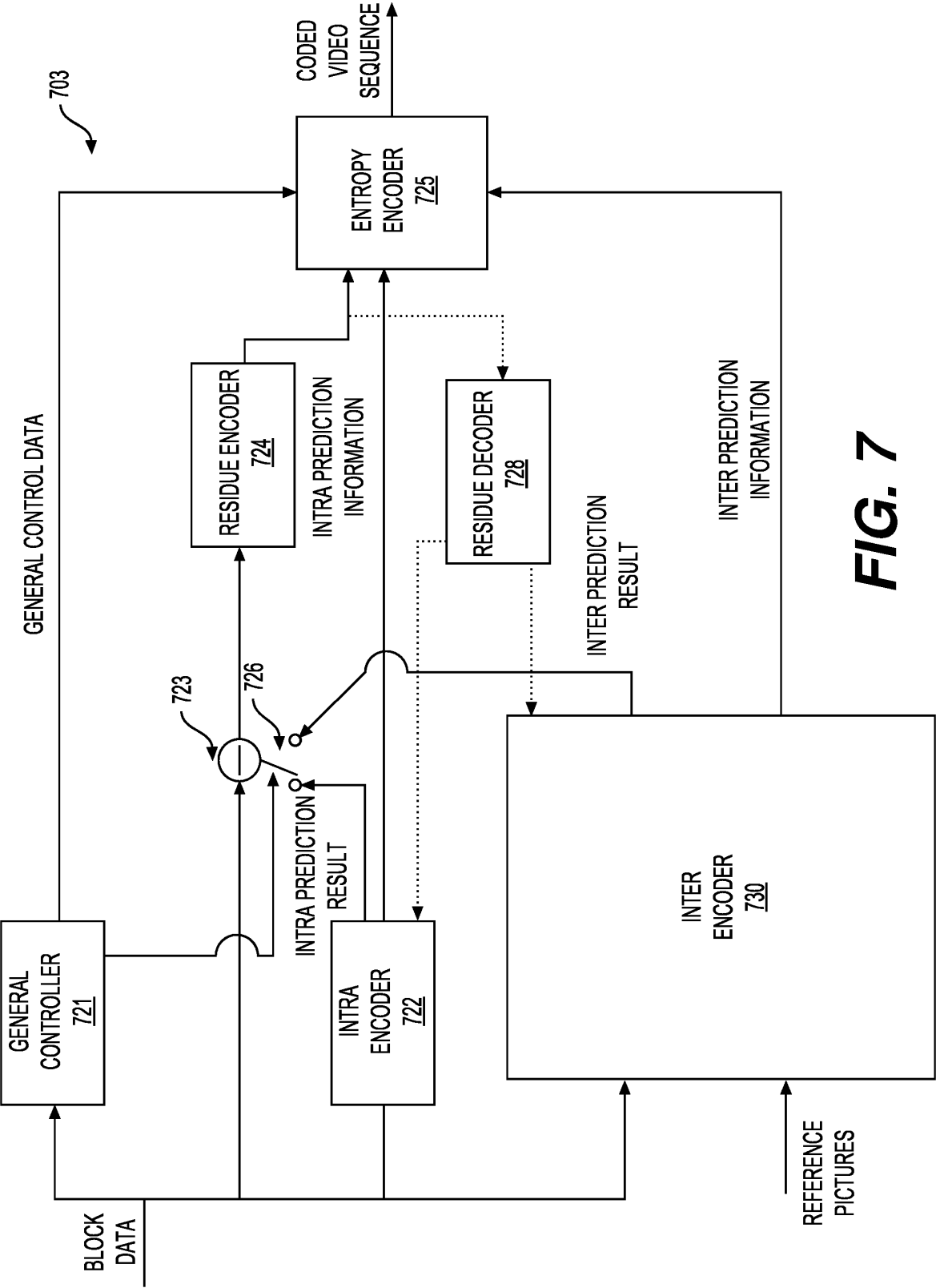


FIG. 7

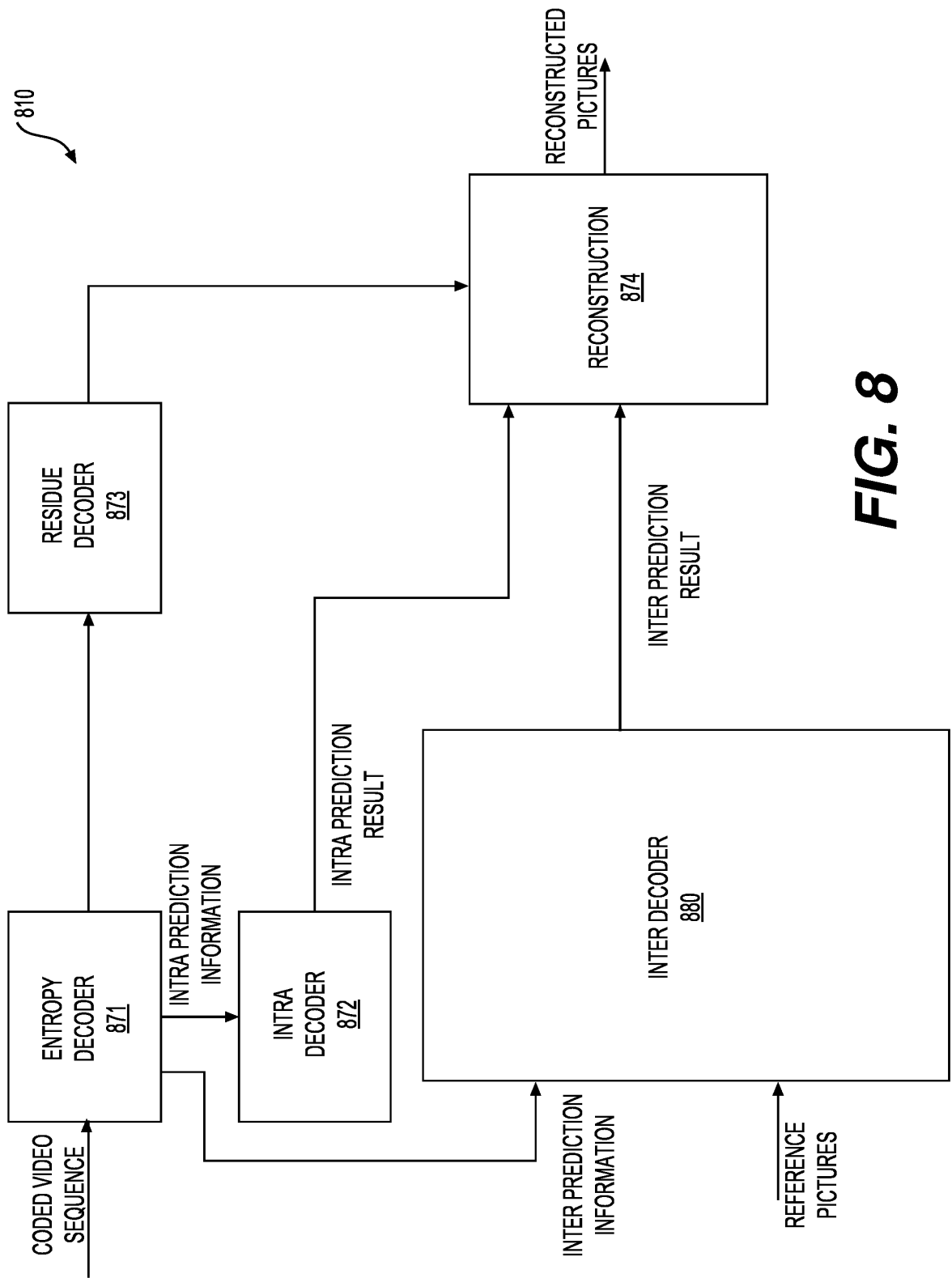


FIG. 8

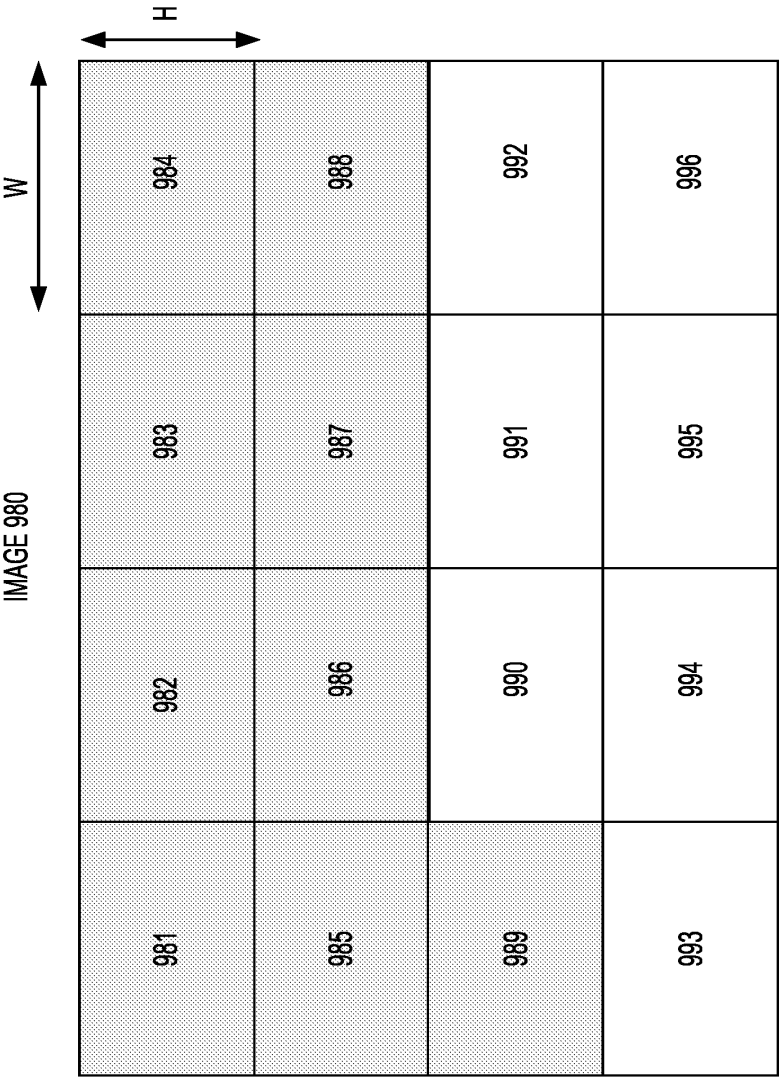


FIG. 9A

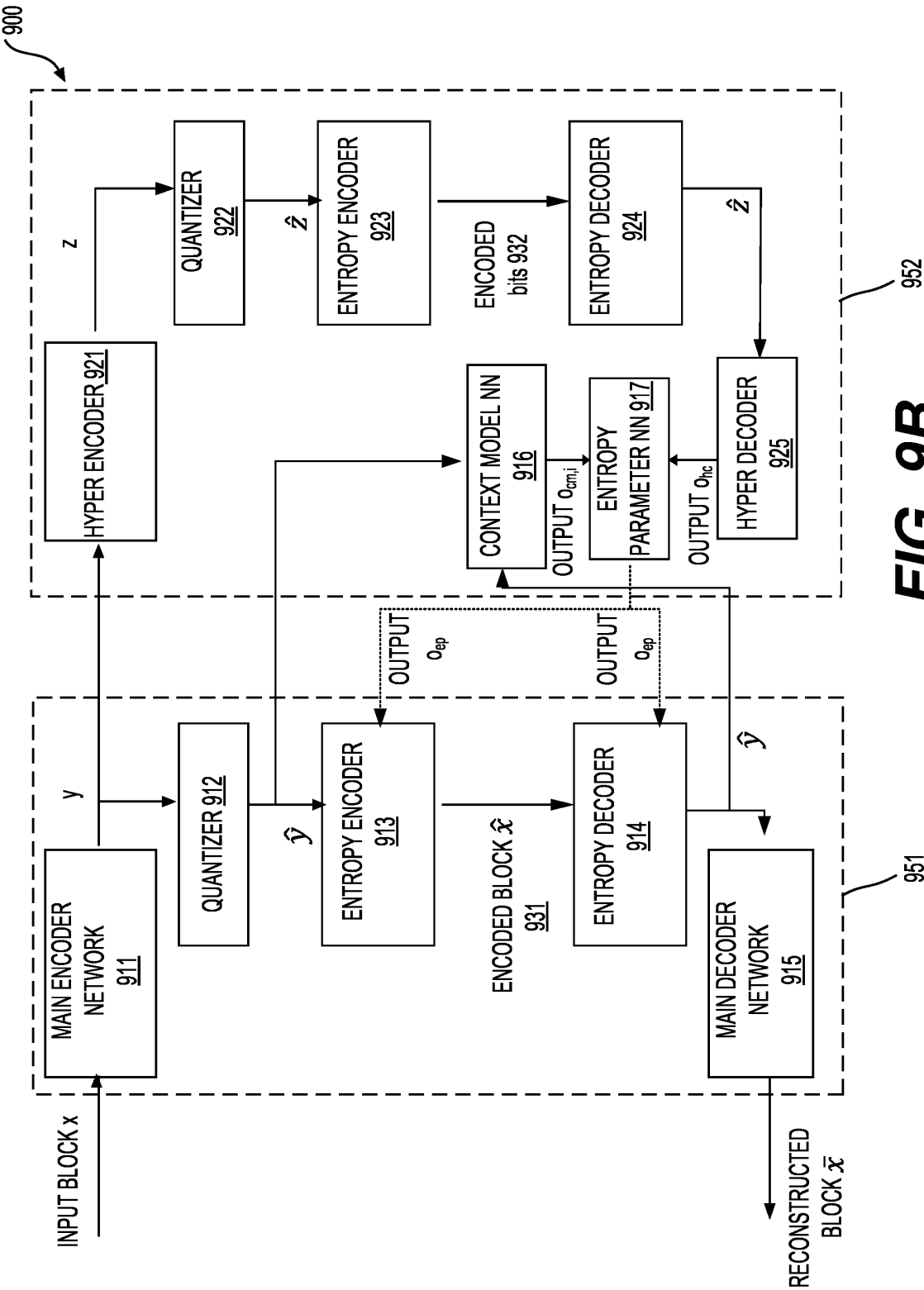


FIG. 9B

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

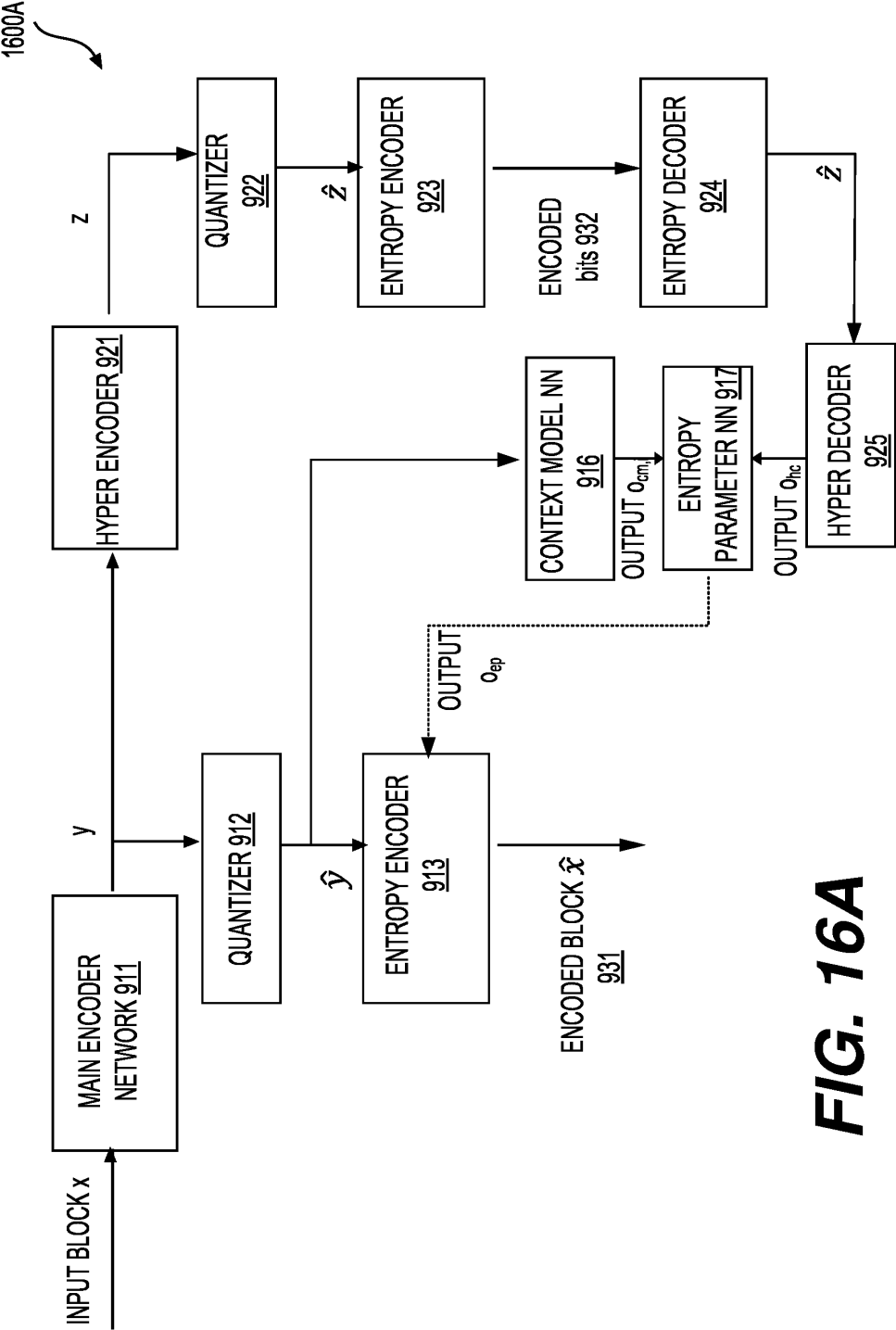
Context model NN

- 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



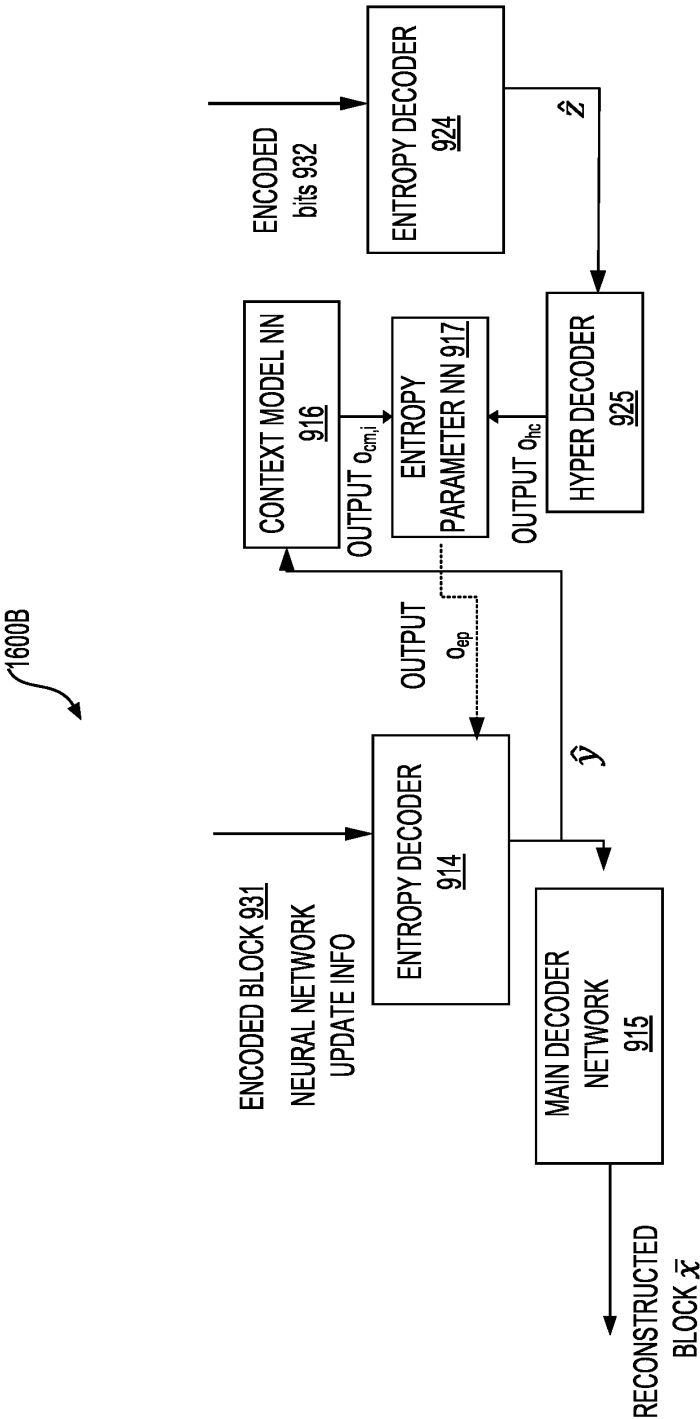


FIG. 16B

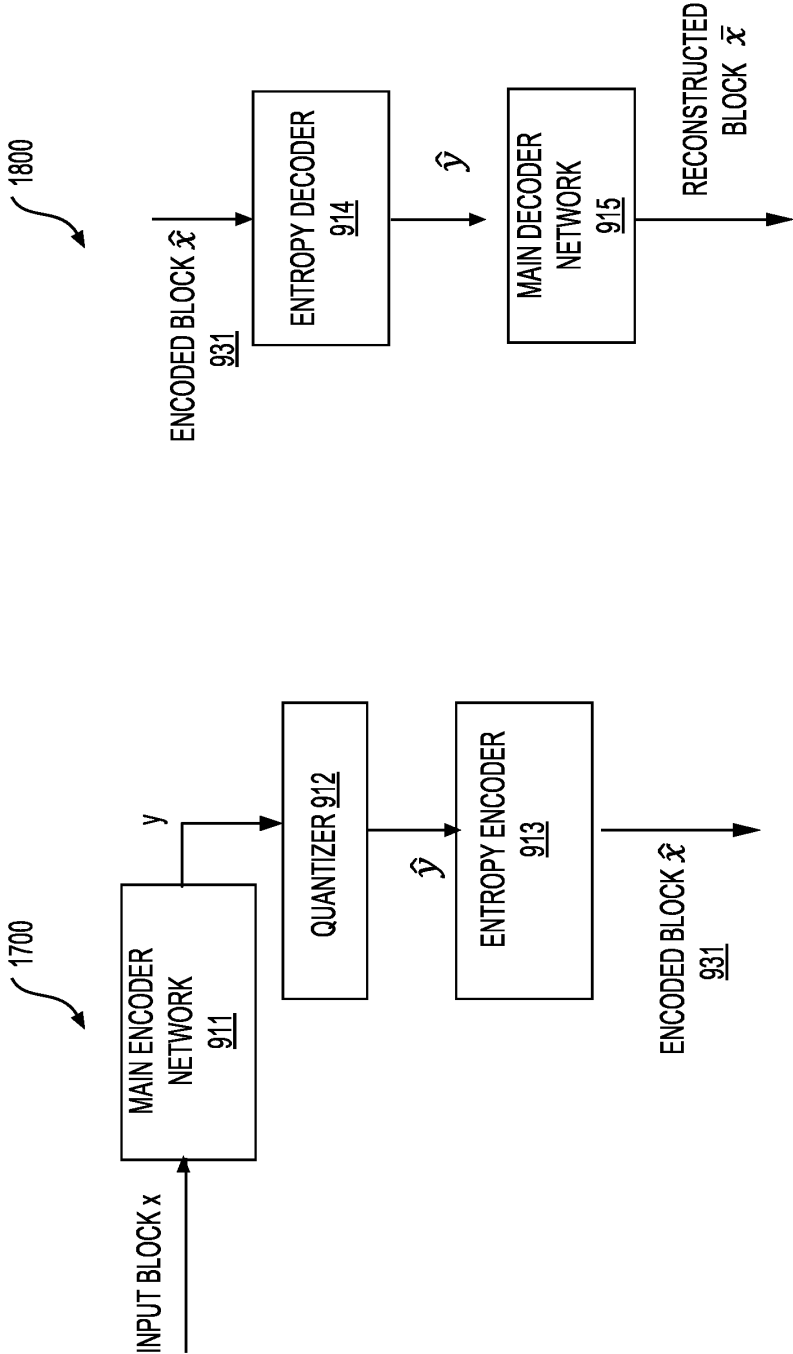


FIG. 17

FIG. 18

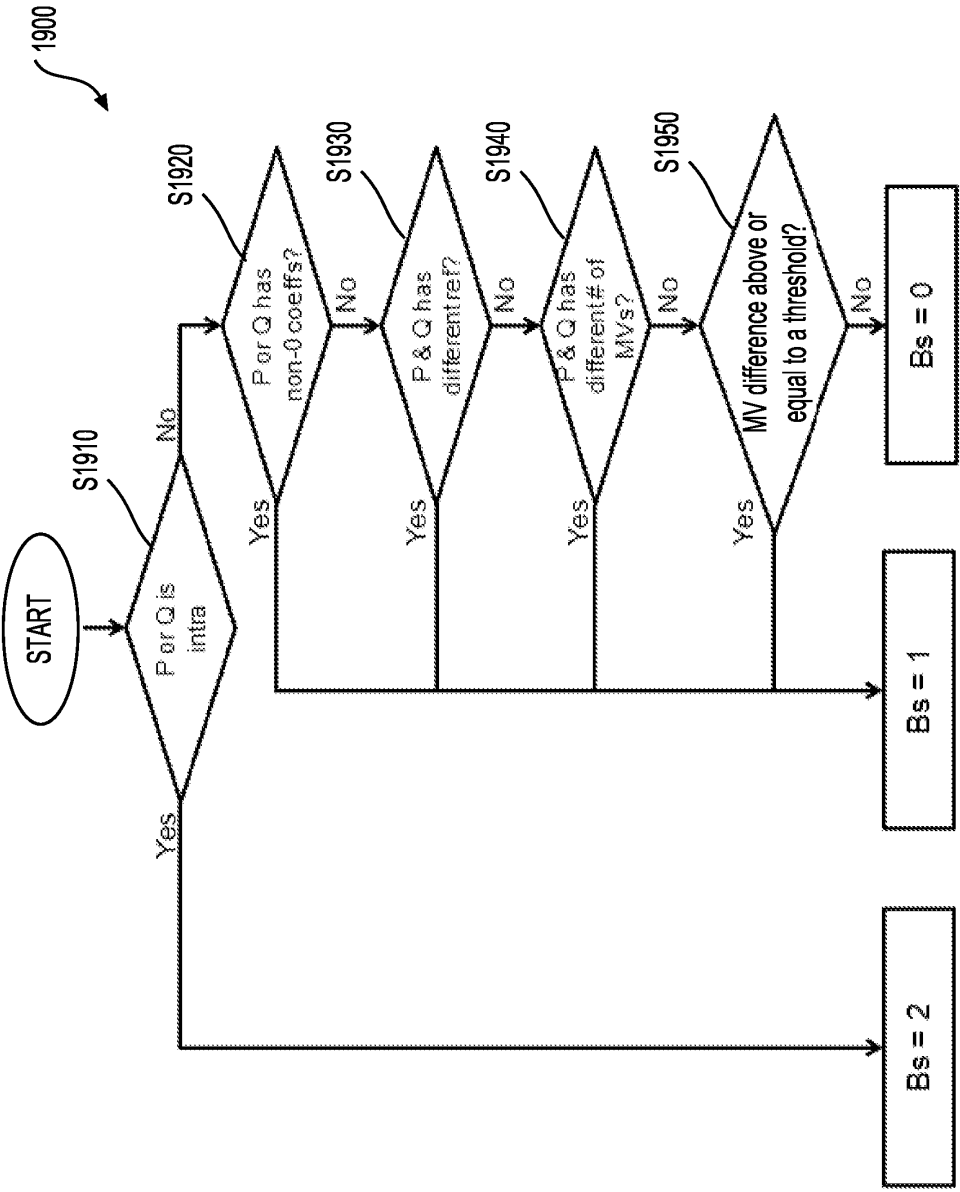


FIG. 19

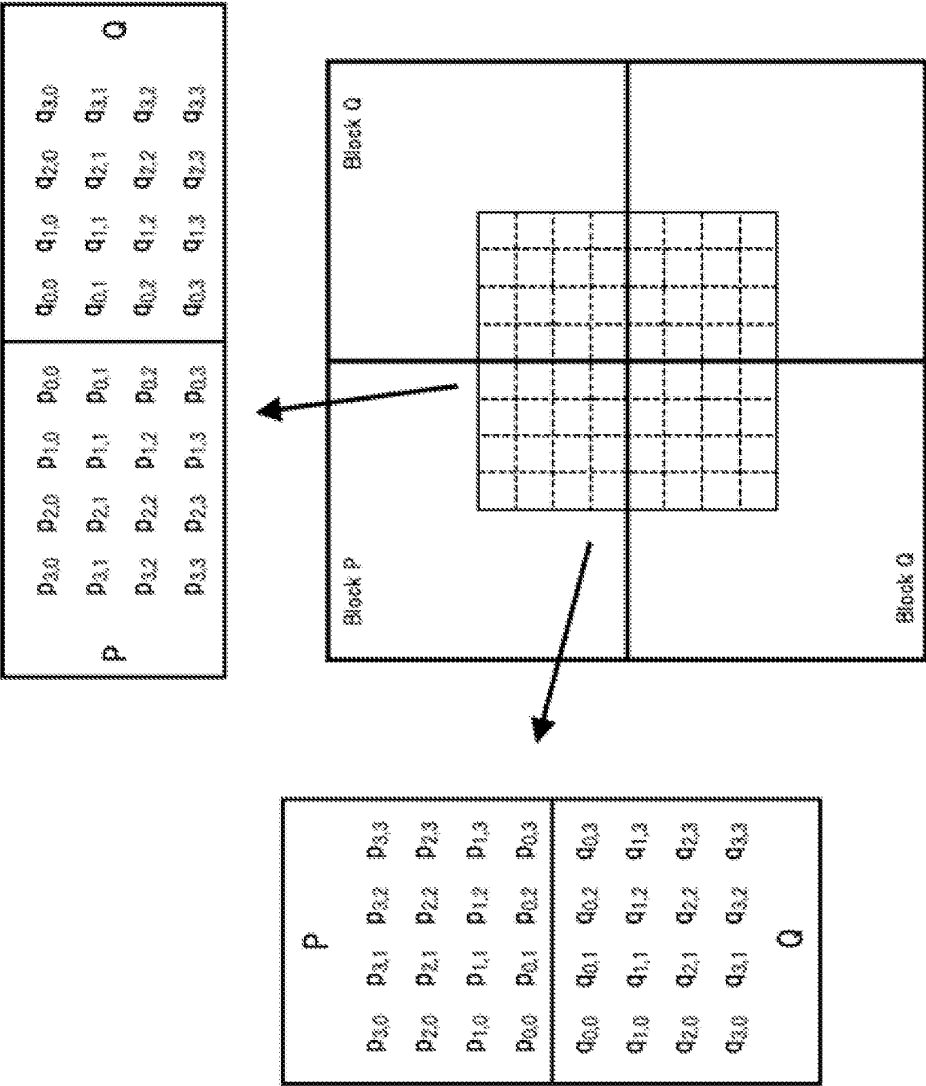


FIG. 20

FIG. 21A

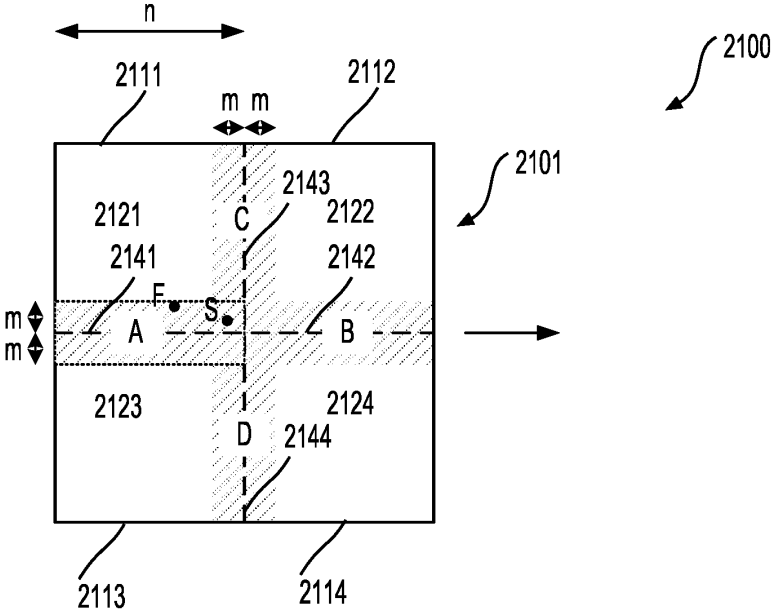


FIG. 21B

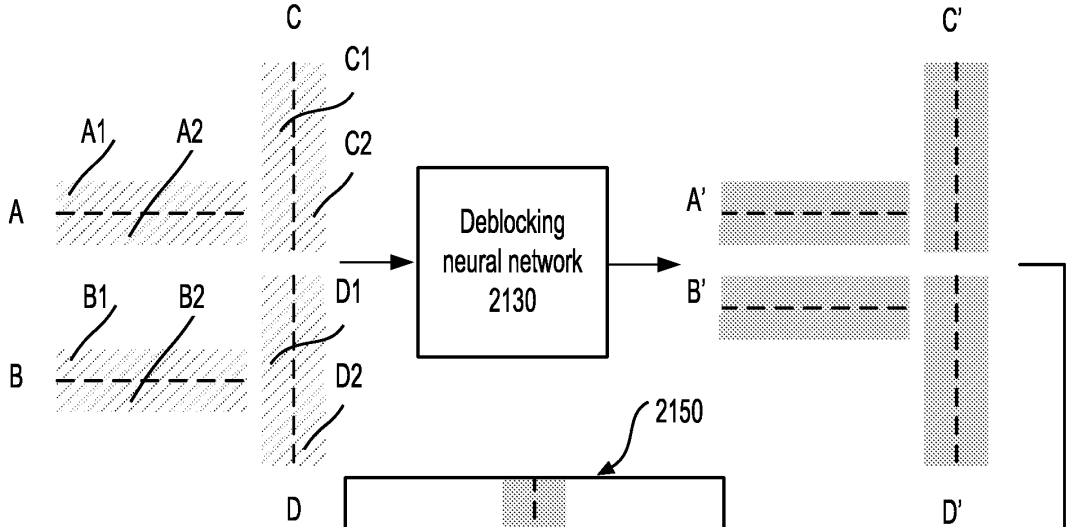


FIG. 21C

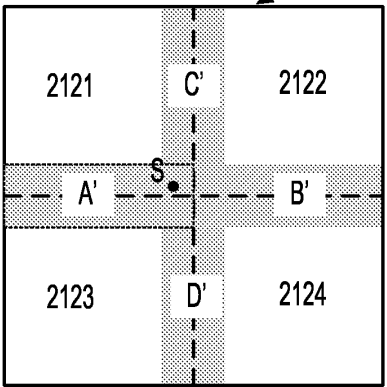
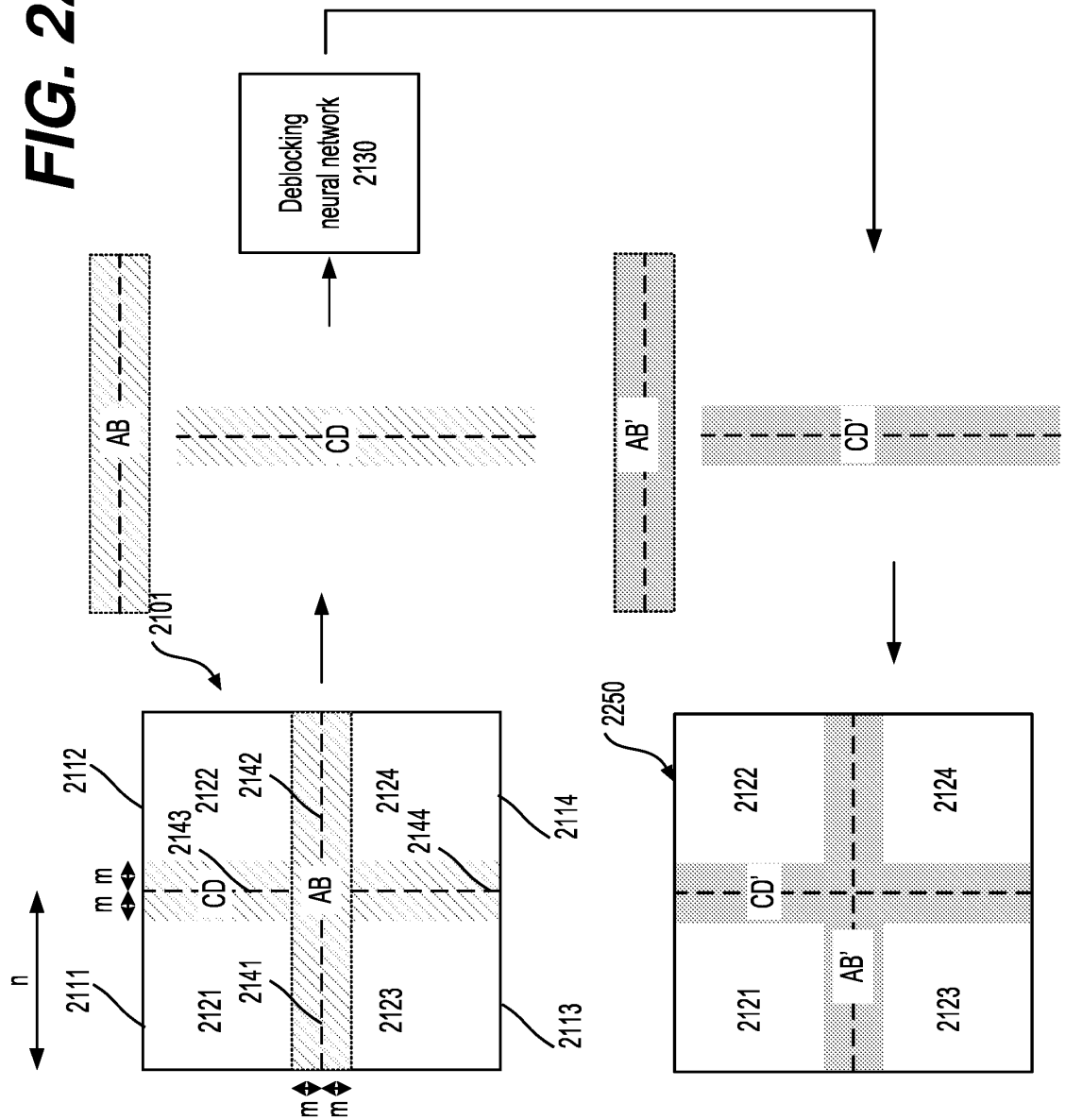
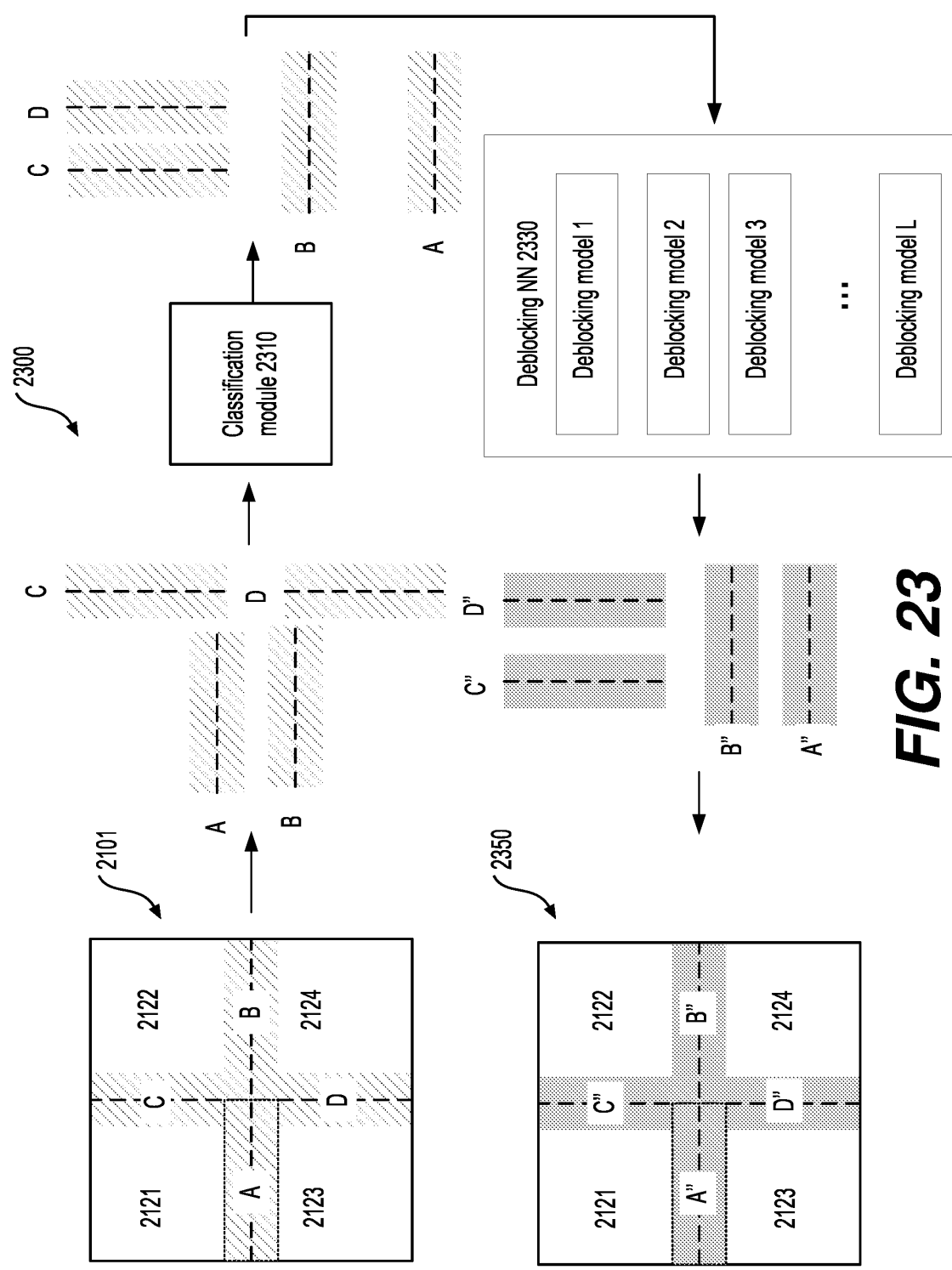


FIG. 22





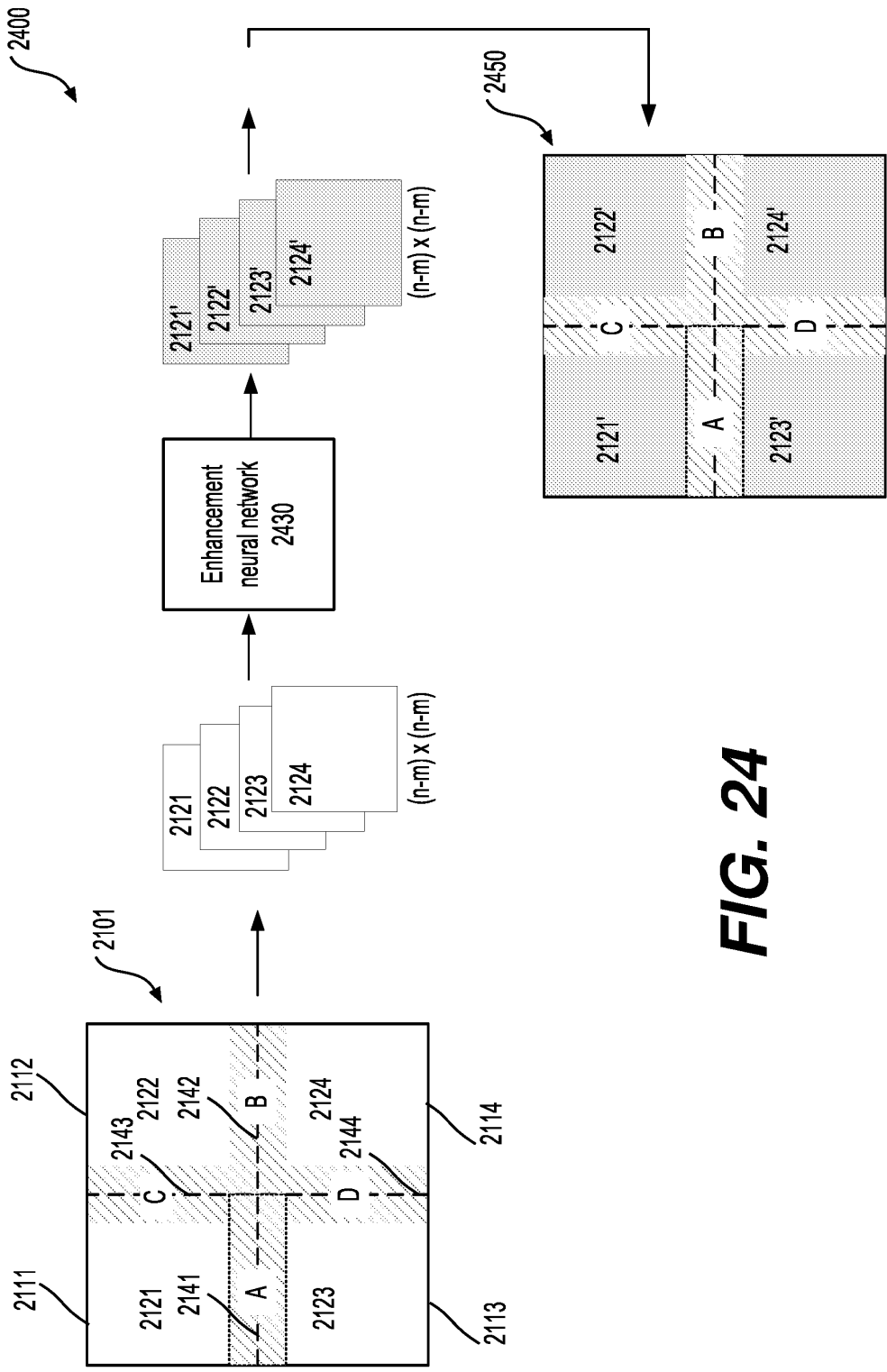


FIG. 24

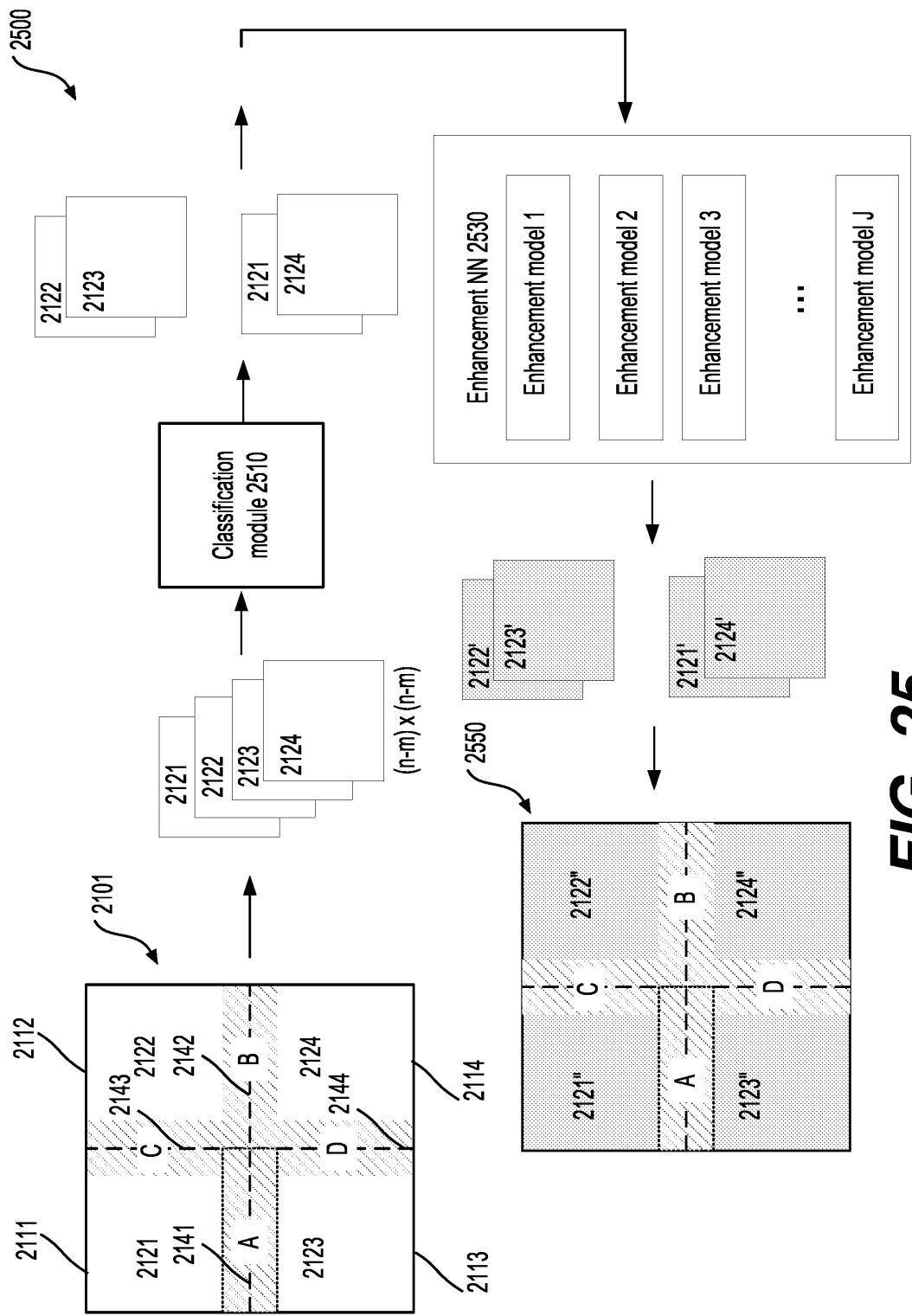


FIG. 25

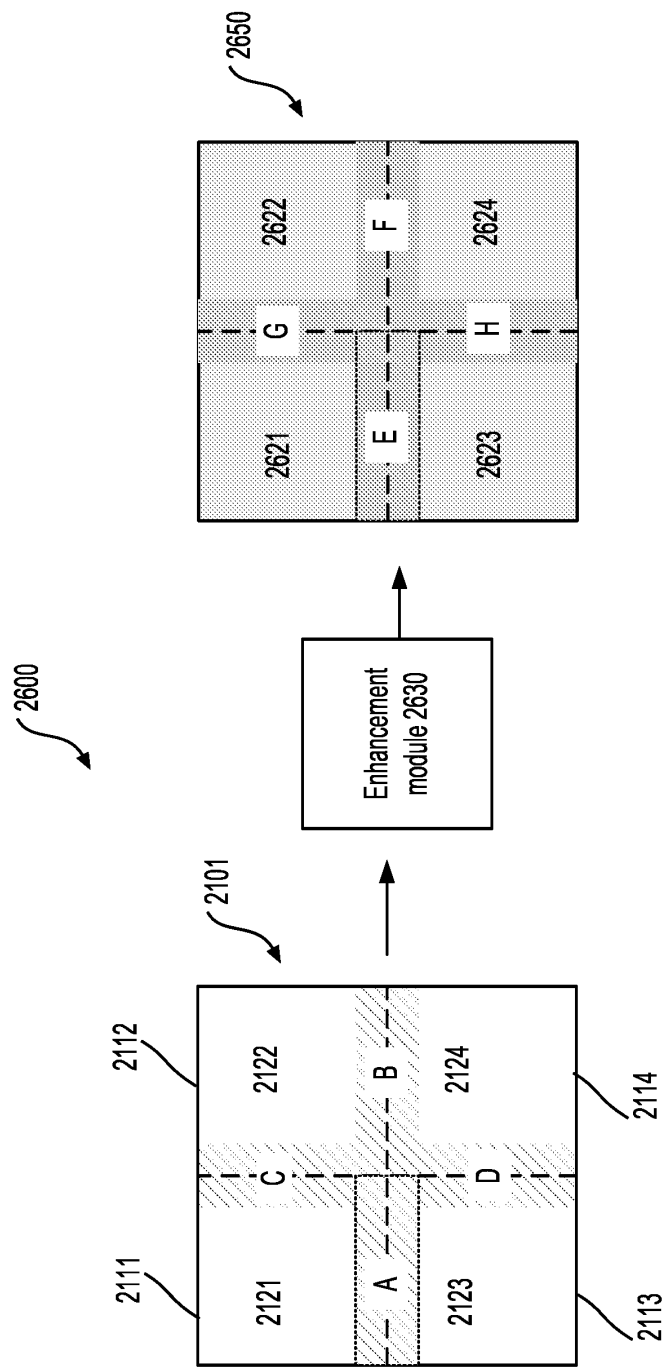


FIG. 26

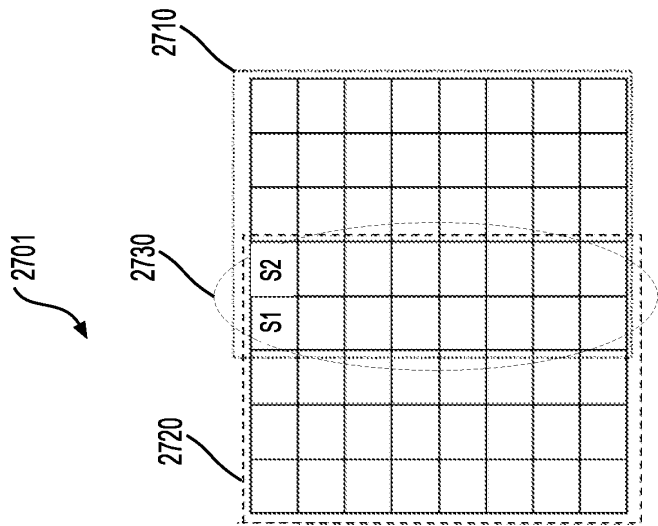
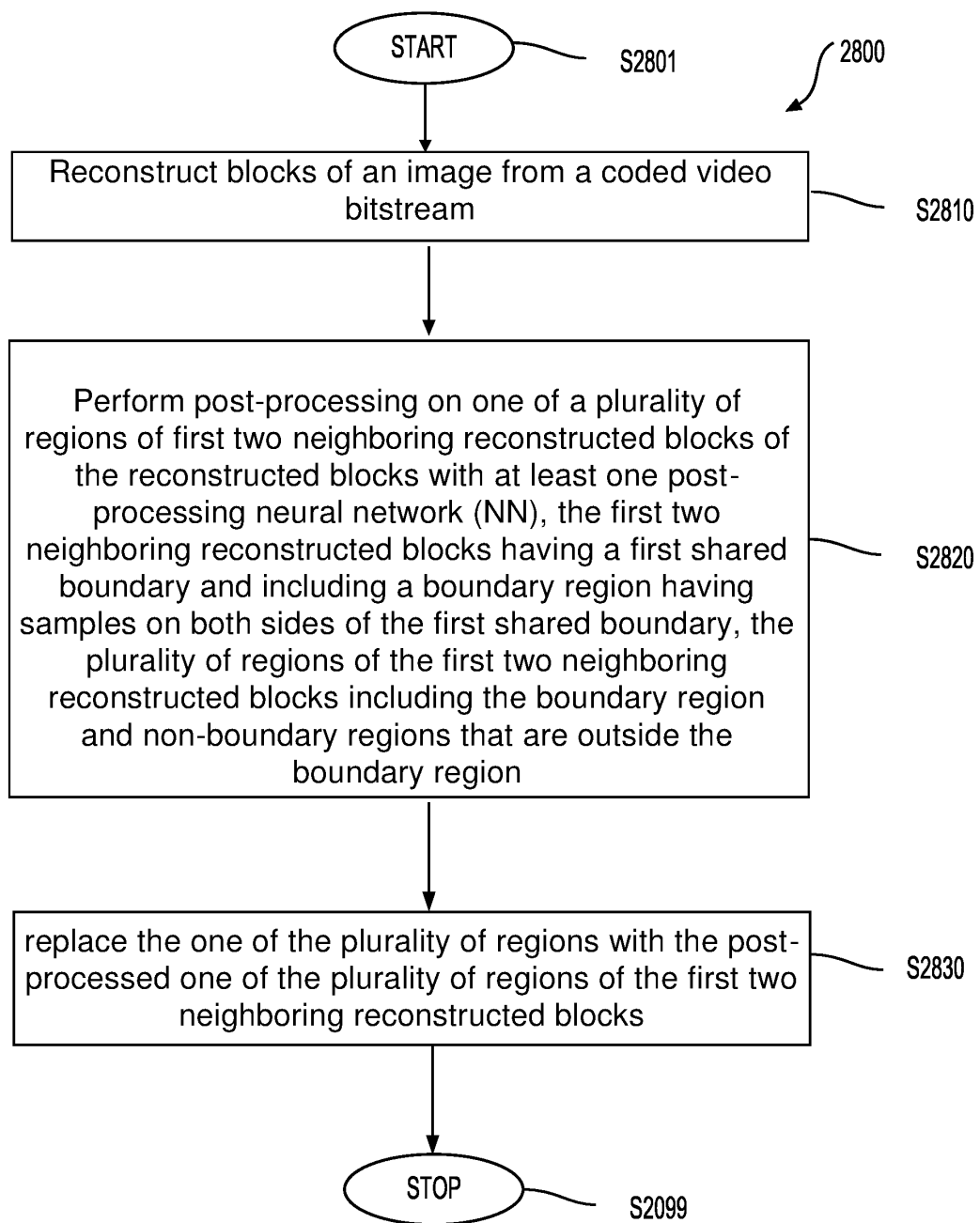


FIG. 27

**FIG. 28**

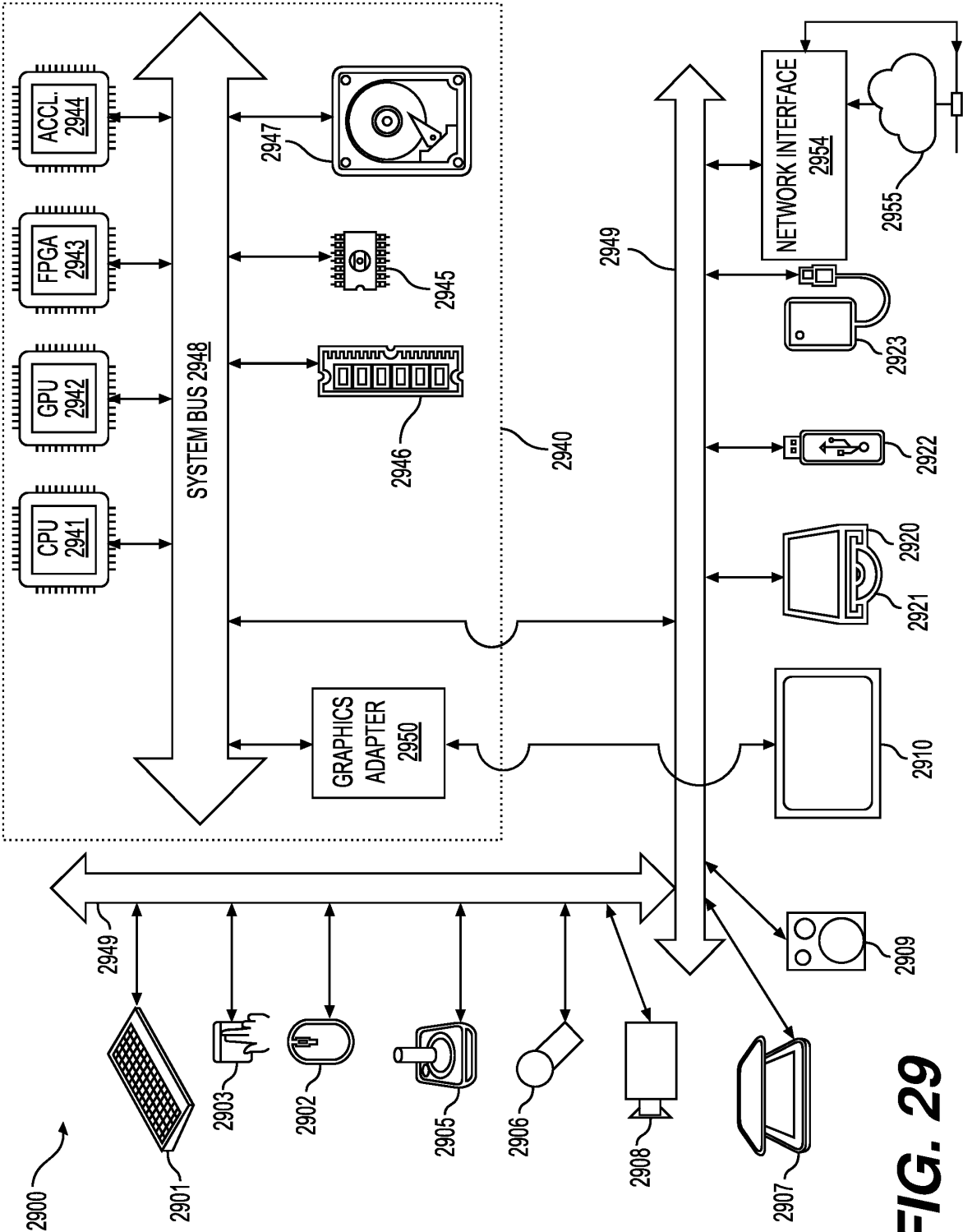


FIG. 29