

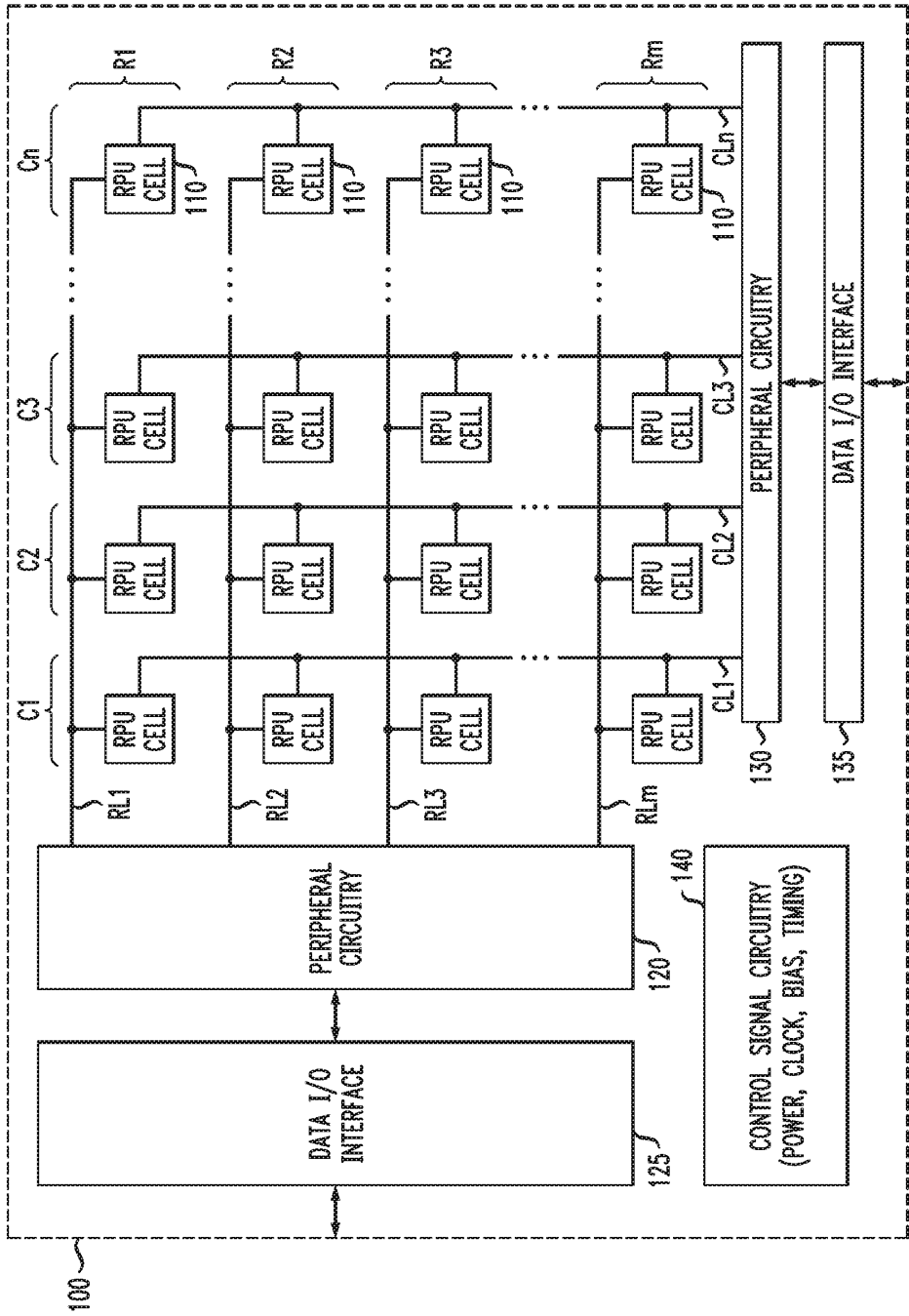
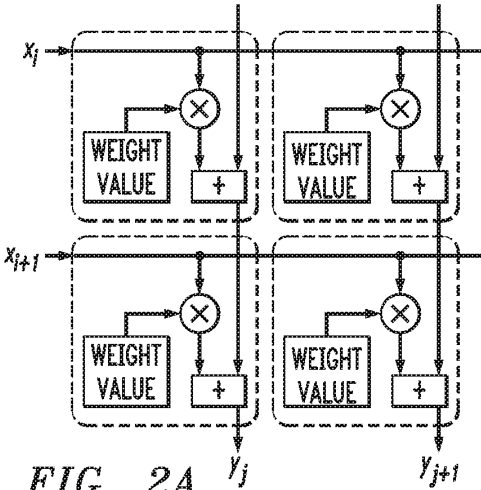


FIG. 1

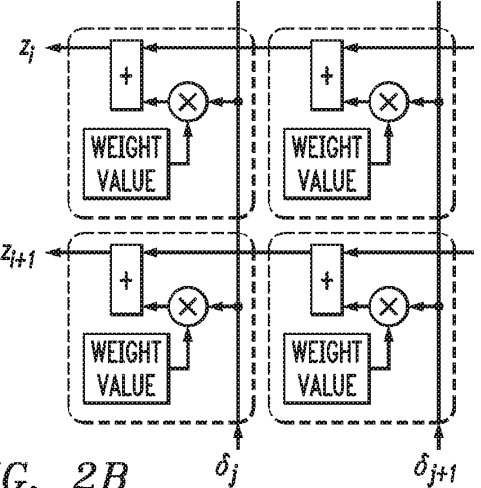
$$y = W \times x$$

FORWARD PASS



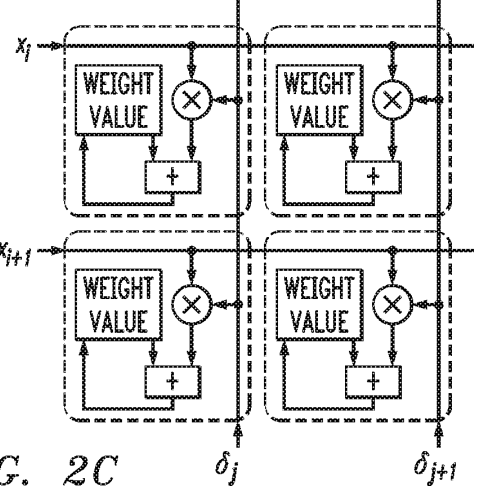
$$z = W^T \times \delta$$

BACKWARD PASS



$$w_{ij} \leftarrow w_{ij} + \eta x_i \times \delta_j$$

WEIGHT UPDATE



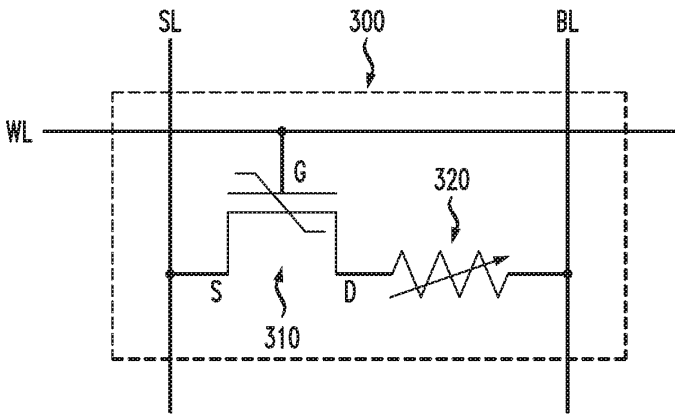


FIG. 3

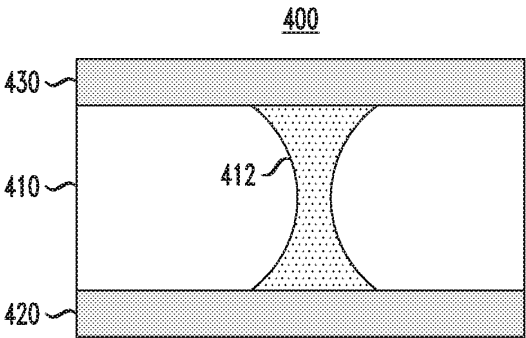
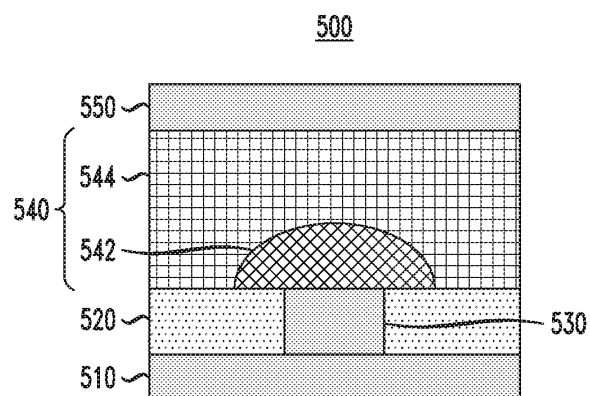
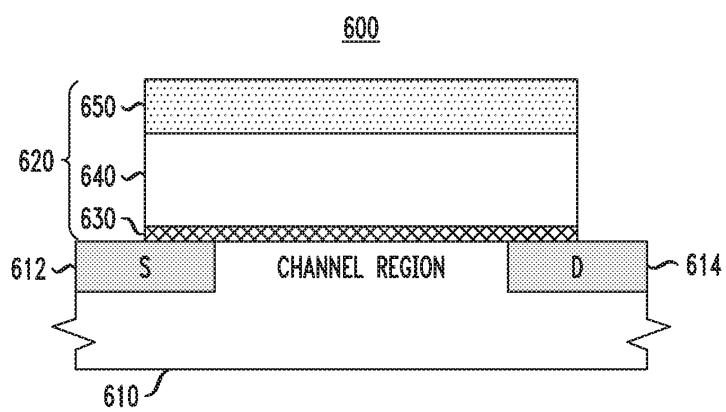


FIG. 4

*FIG. 5**FIG. 6*

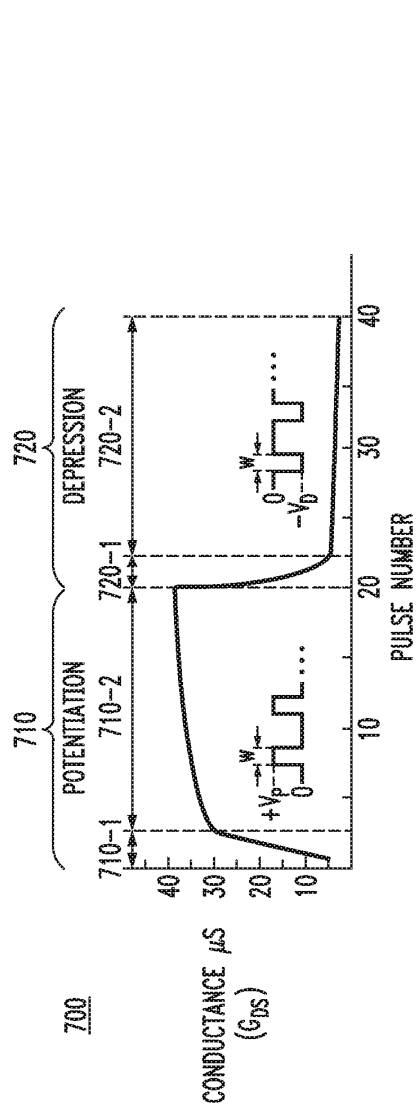


FIG. 7A

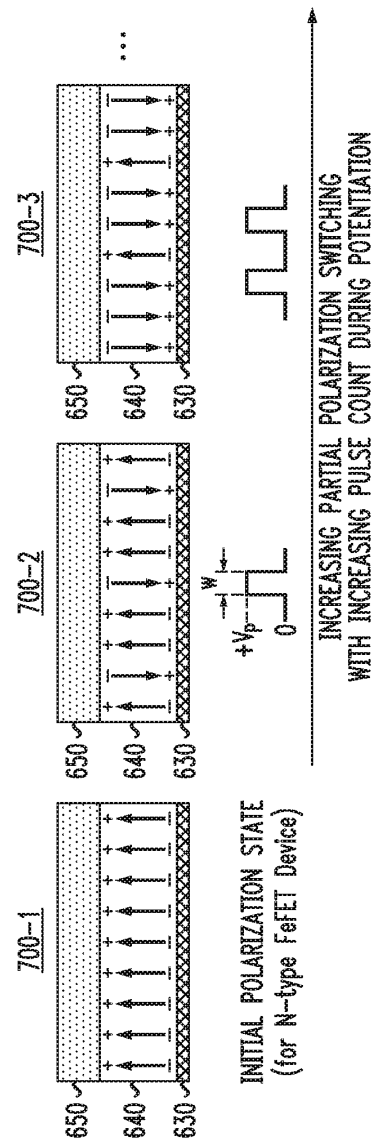


FIG. 7B

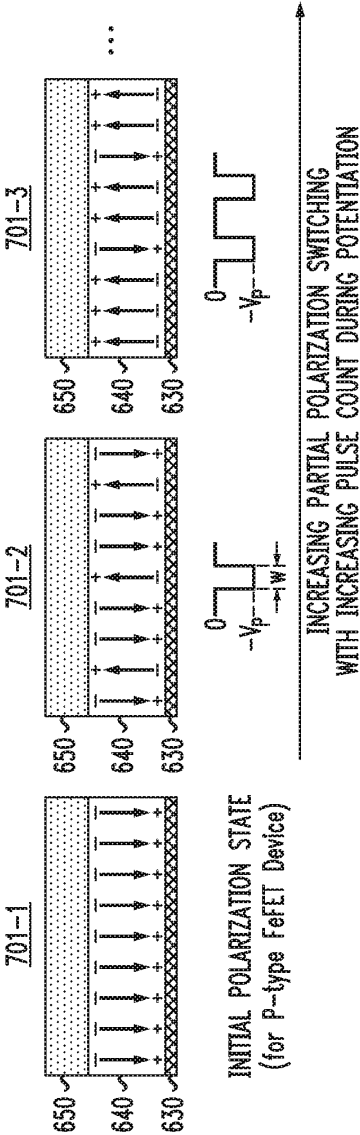


FIG. 7C

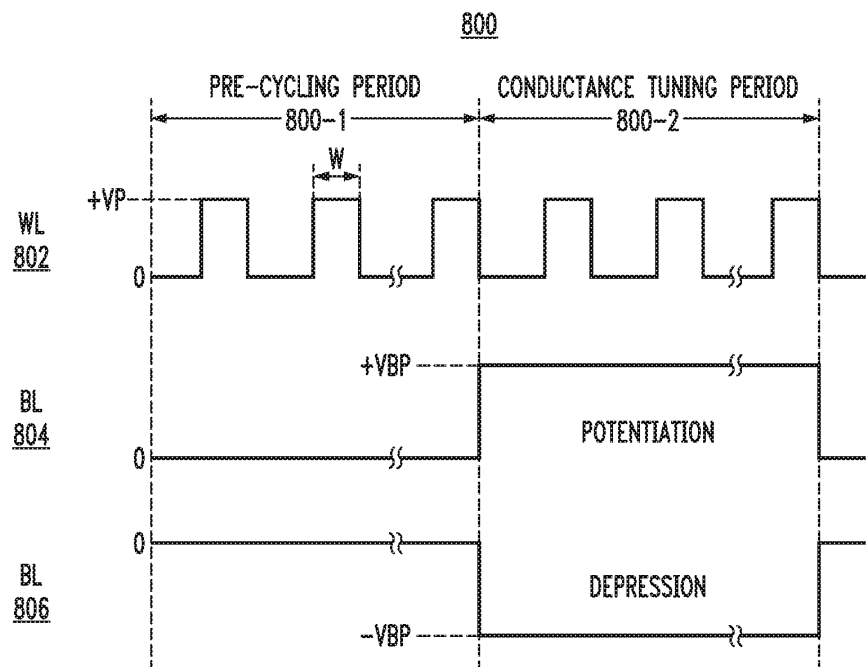


FIG. 8A

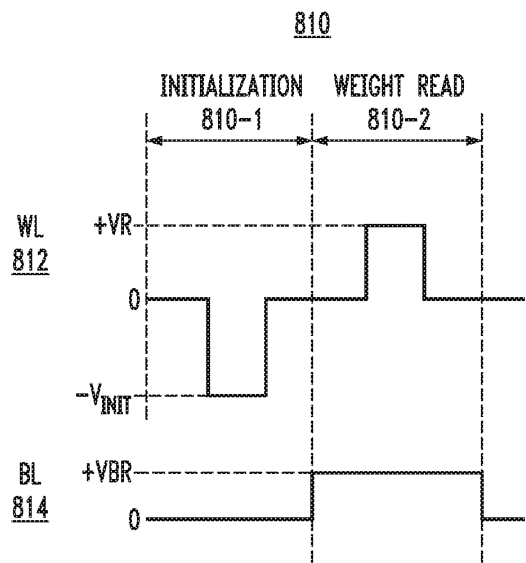


FIG. 8B

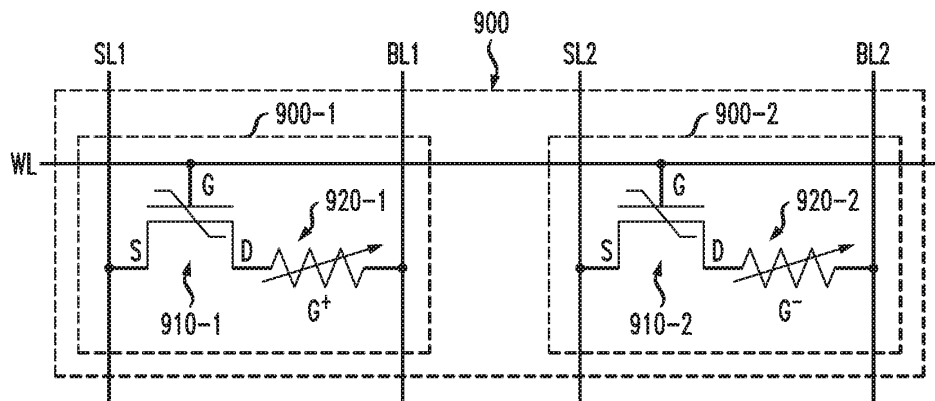


FIG. 9

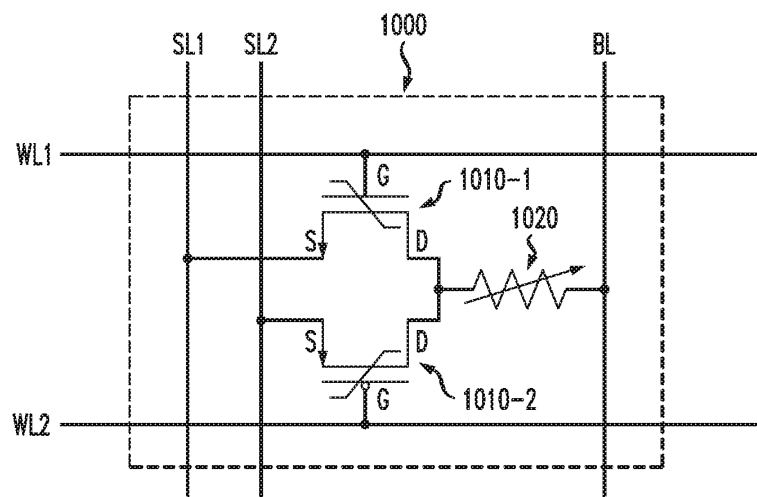


FIG. 10

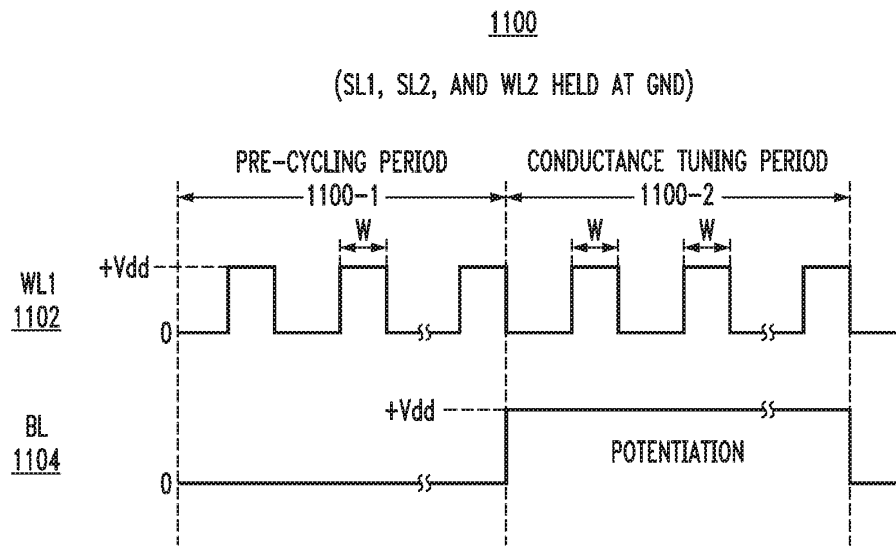


FIG. 11A

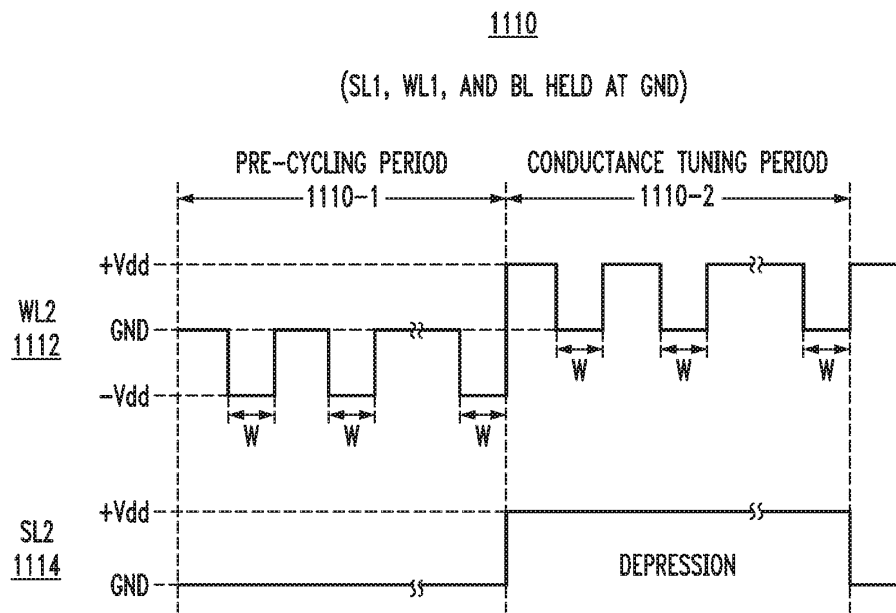


FIG. 11B