

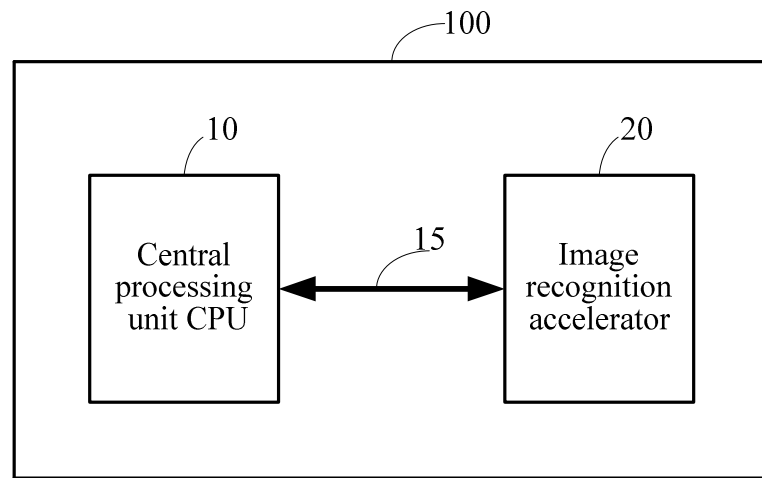


FIG. 1

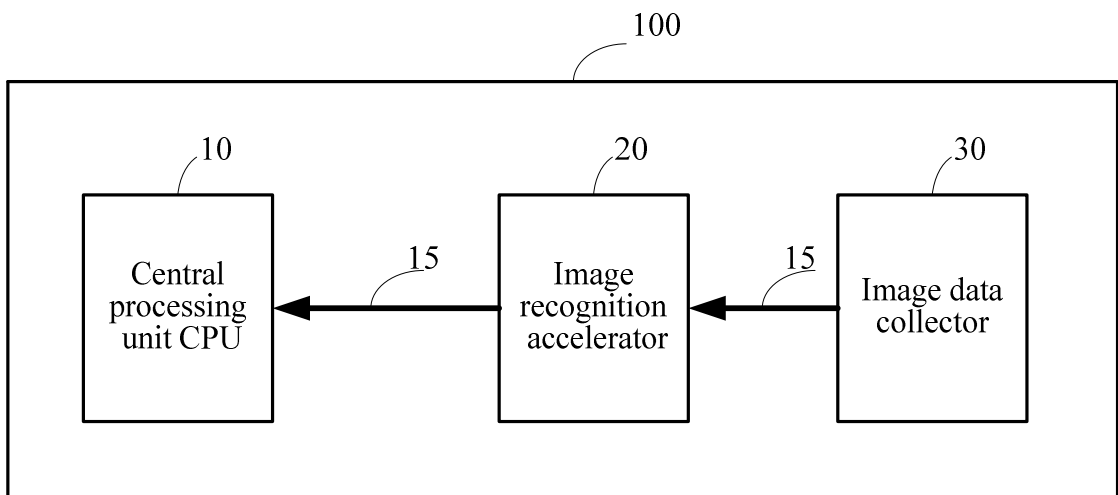


FIG. 2

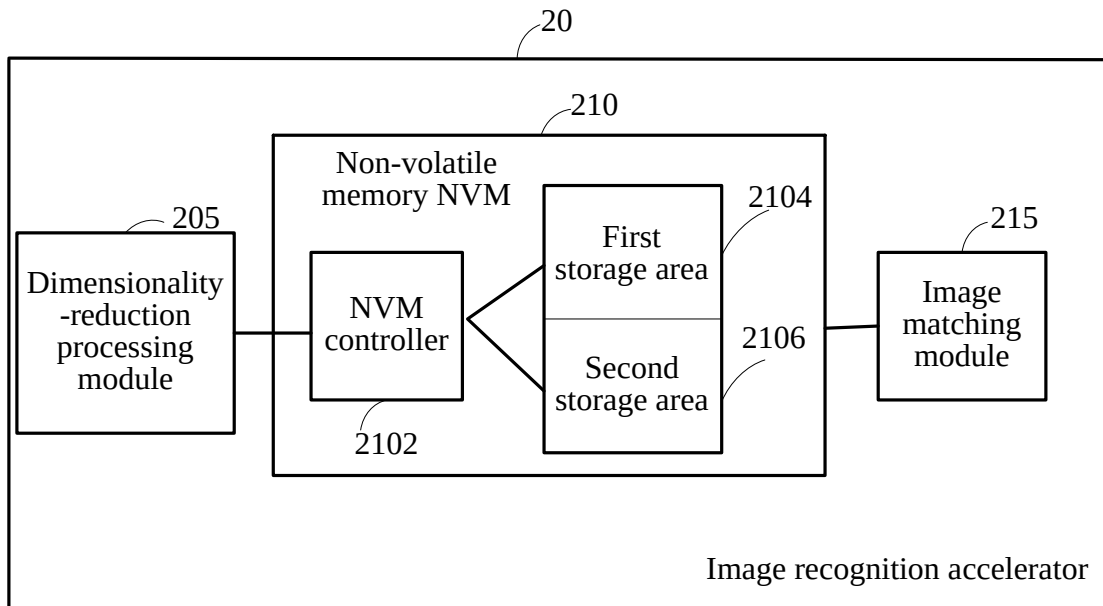


FIG. 3

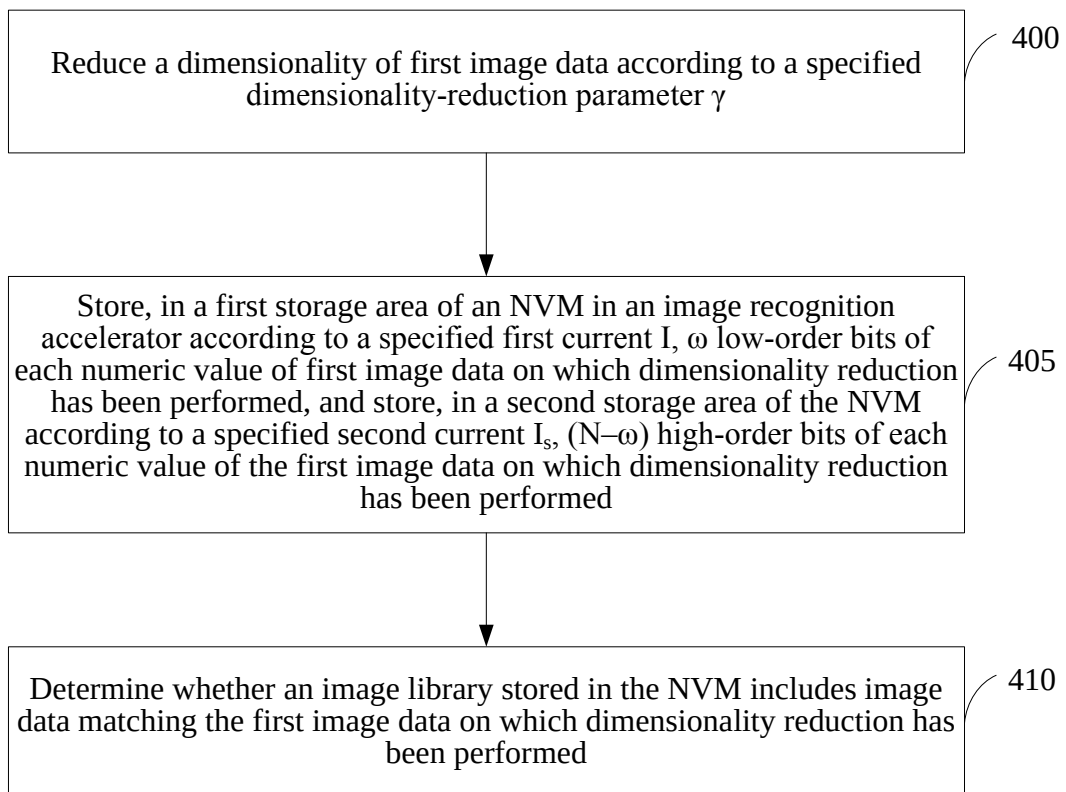


FIG. 4

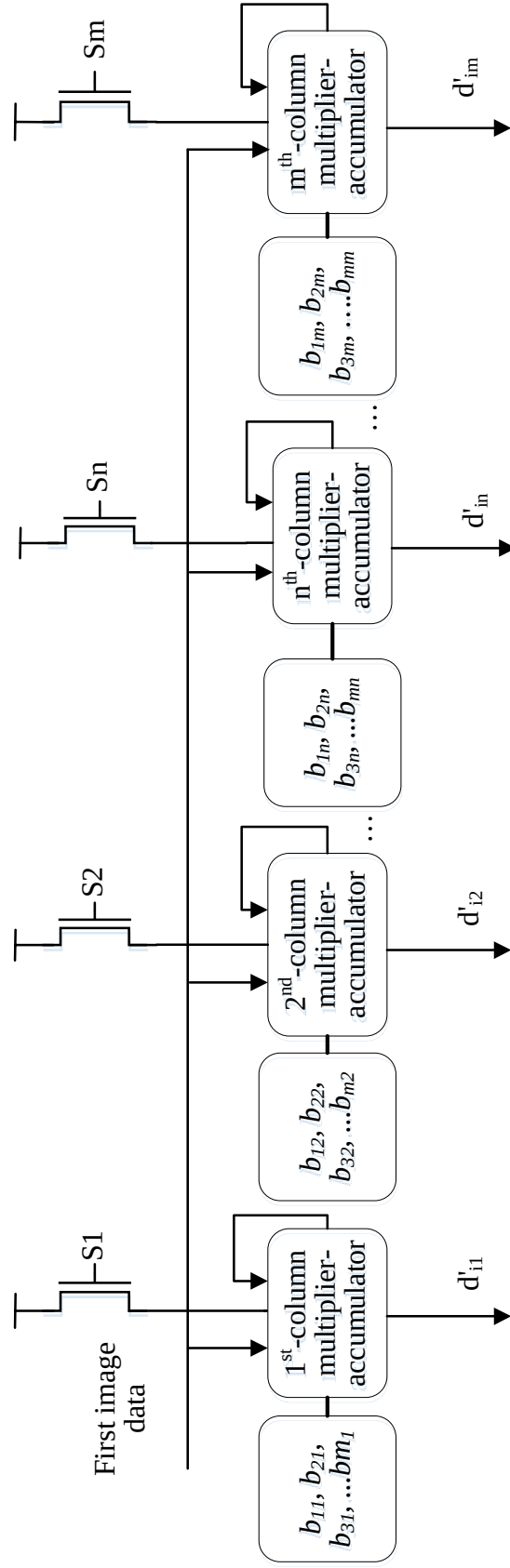


FIG. 5

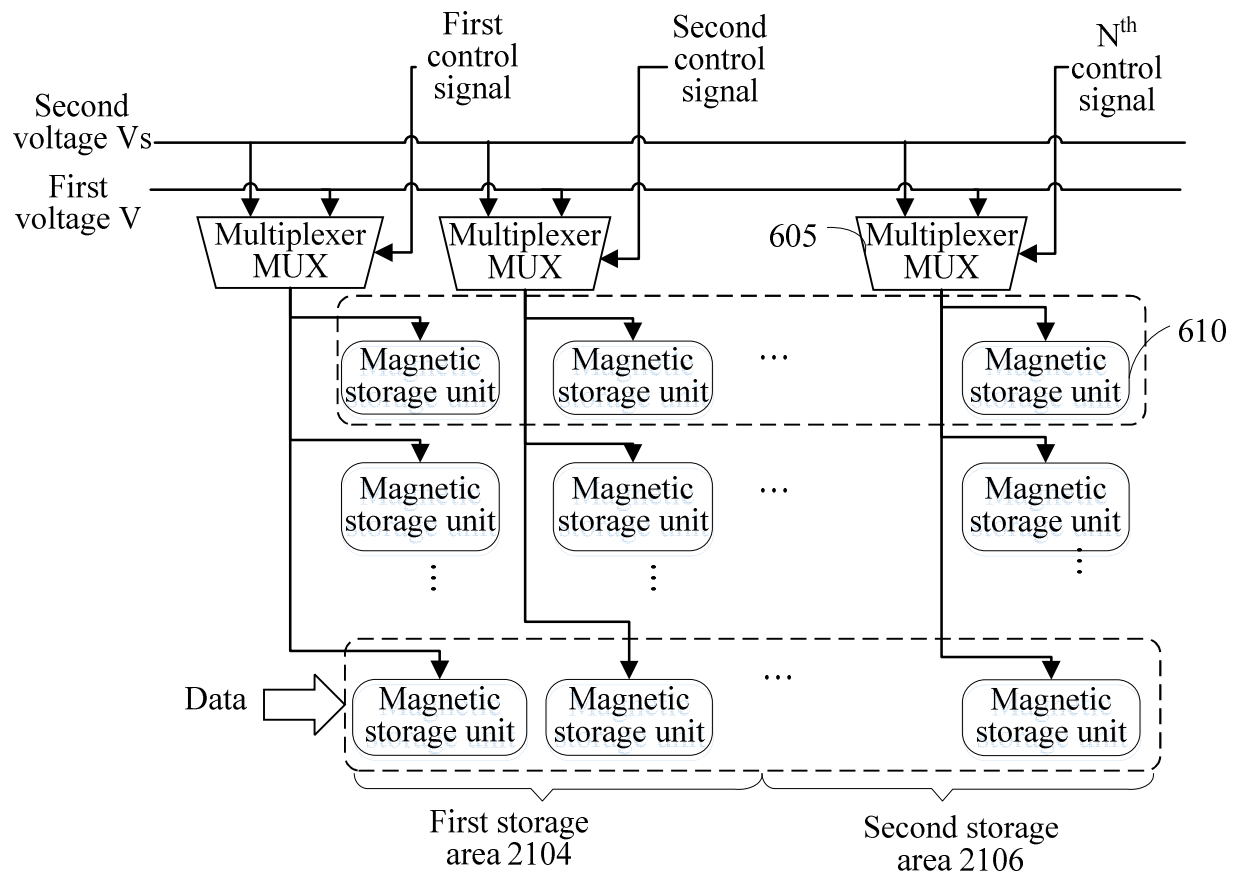


FIG. 6

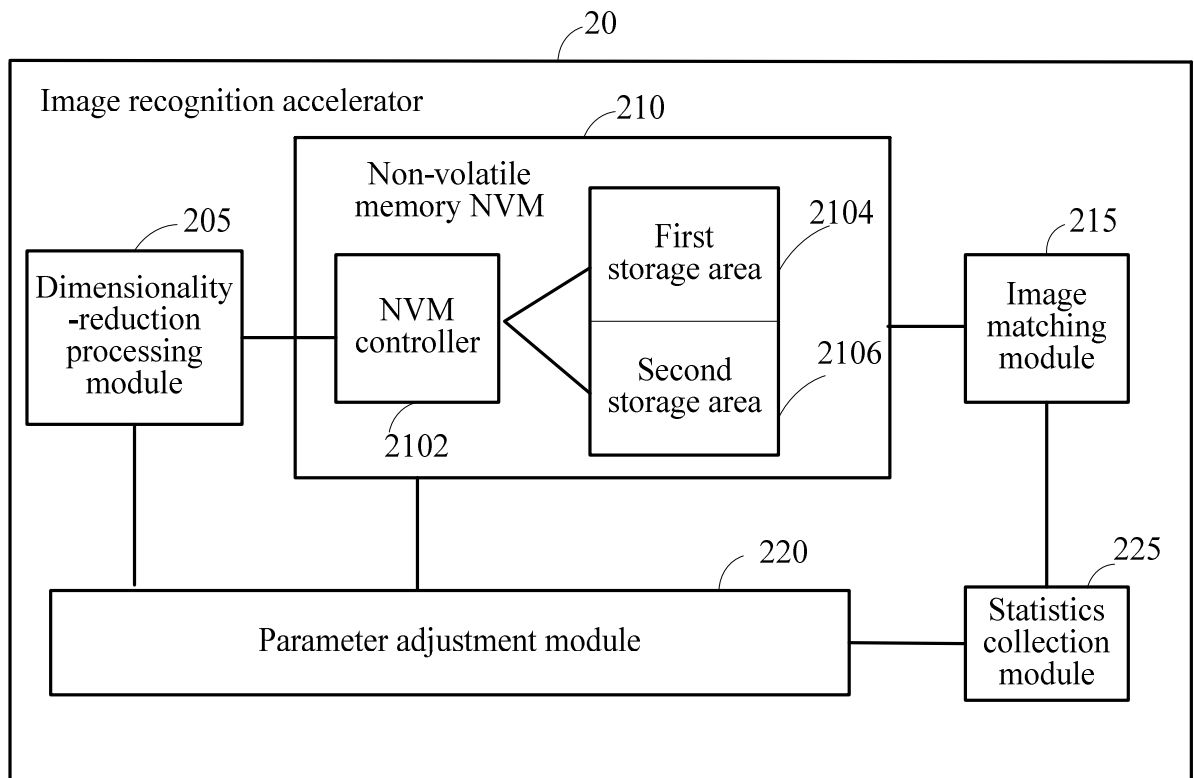


FIG. 7

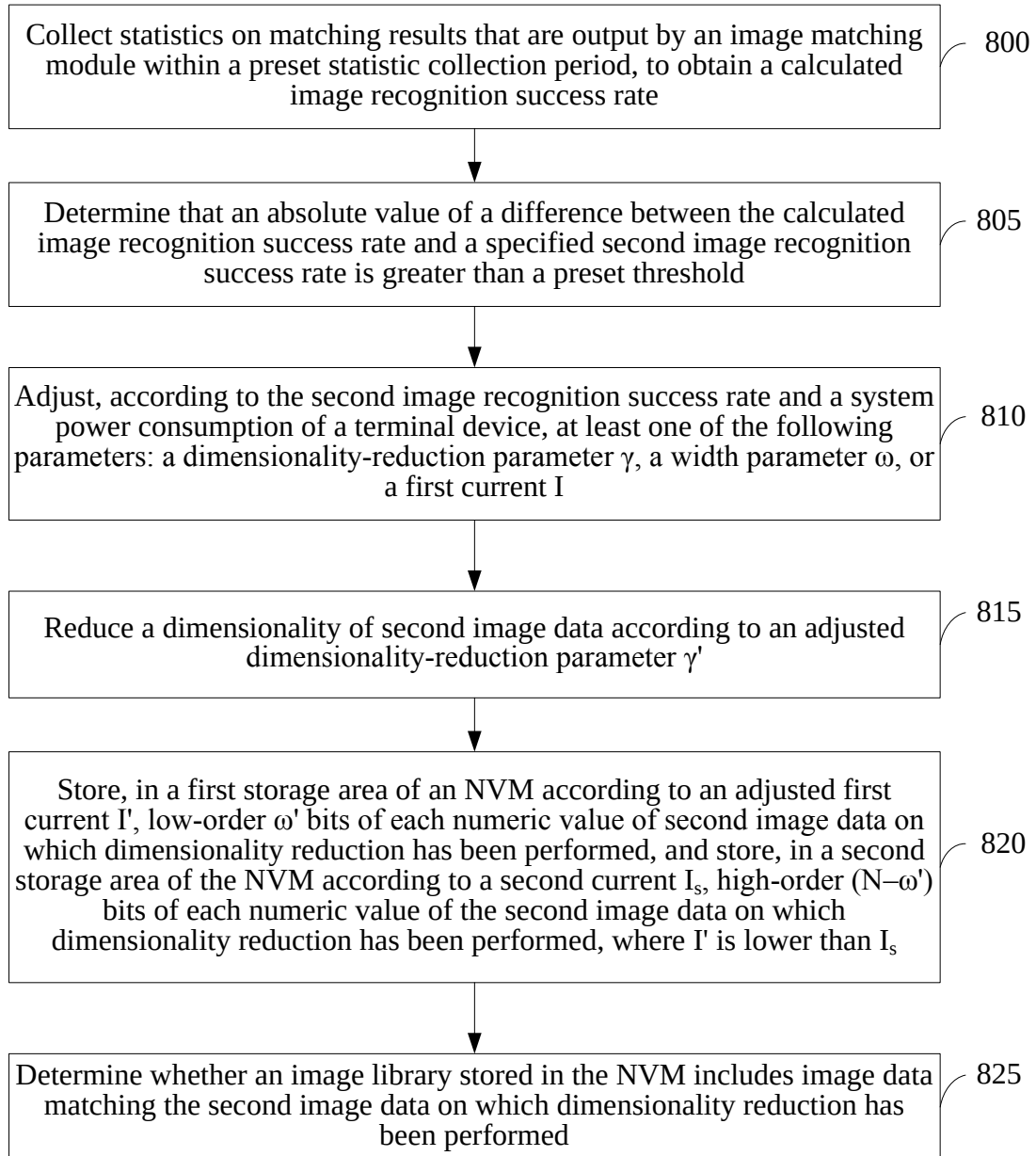


FIG. 8

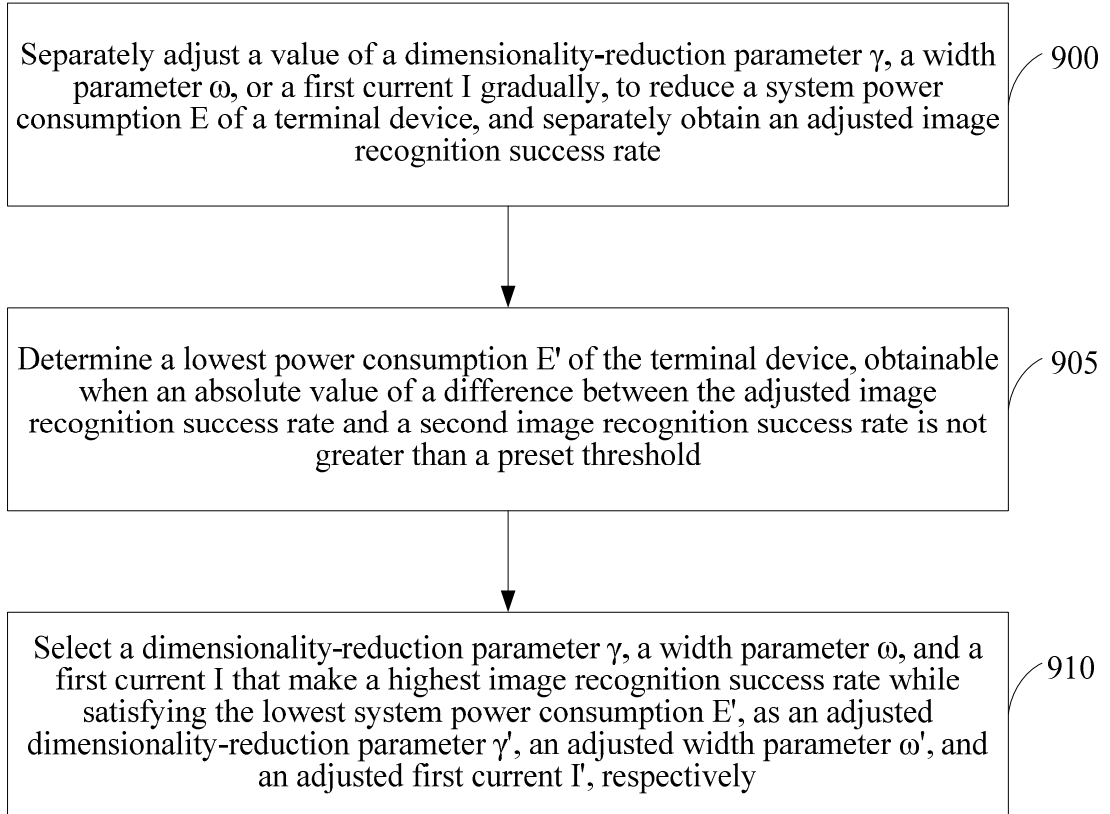


FIG. 9

| Dimensionality-reduction parameter $\gamma$ | Width parameter $\omega$ | First current $I$ | System power consumption $E$ | Image recognition success rate QoS |
|---------------------------------------------|--------------------------|-------------------|------------------------------|------------------------------------|
| $\gamma_1$                                  | $\omega$                 | $I$               | $E_1$                        | QoS 1                              |
| $\gamma_2$                                  | $\omega$                 | $I$               | $E_2$                        | QoS 2                              |
| $\gamma$                                    | $\omega_1$               | $I$               | $E_3$                        | QoS 3                              |
| $\gamma$                                    | $\omega$                 | $I_2$             | $E_4$                        | QoS 4                              |
| $\gamma_3$                                  | $\omega_3$               | $I_3$             | $E_5$                        | QoS 5                              |
| ...                                         | ...                      | ...               | ...                          | ...                                |

FIG. 10(a)

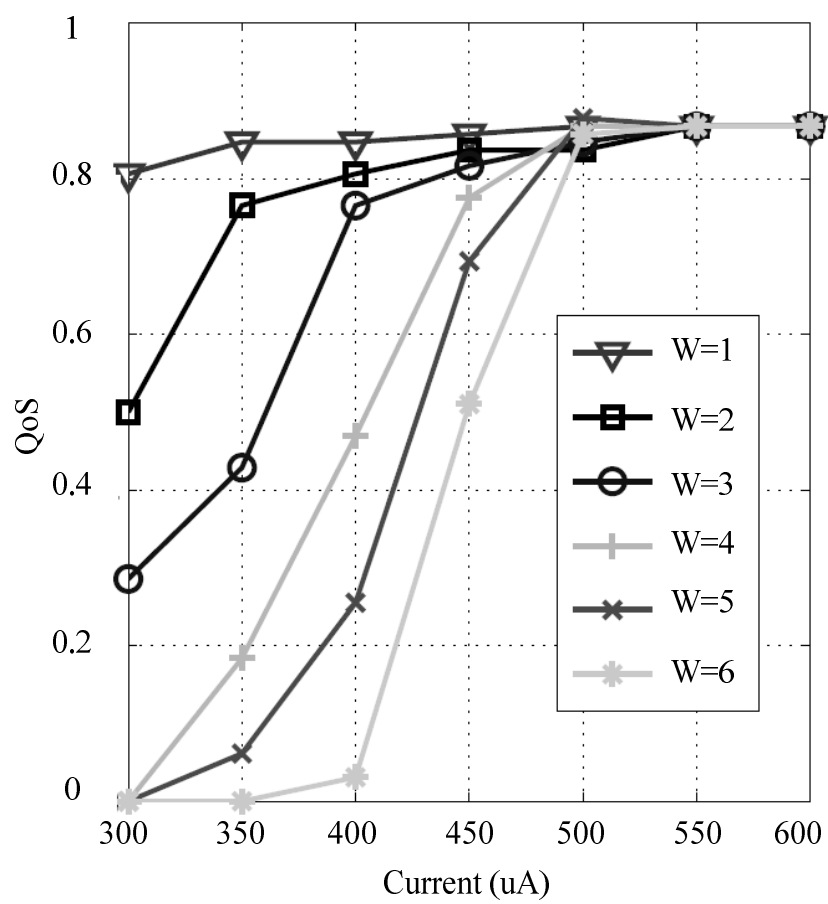


FIG. 10(b)

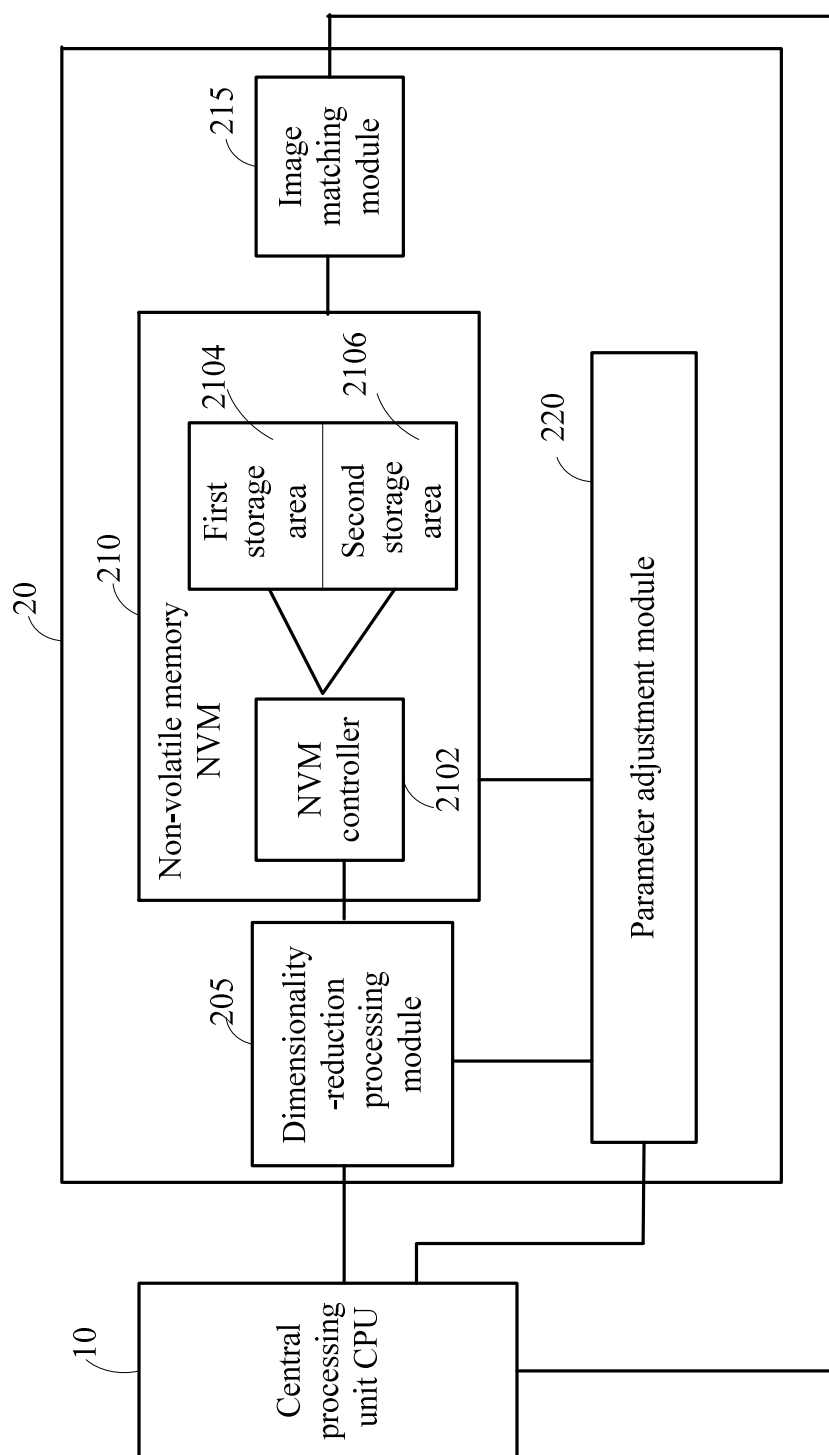


FIG. 11

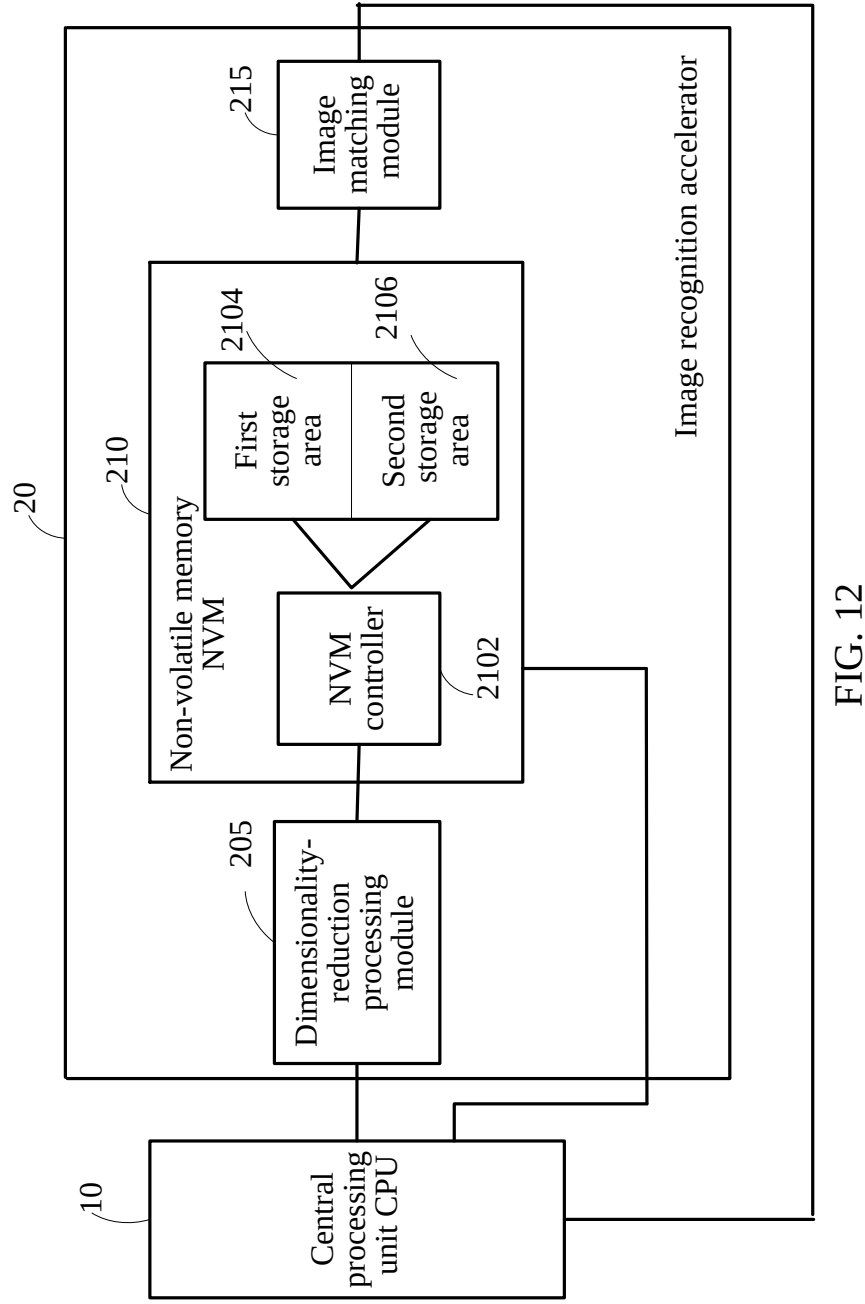


FIG. 12

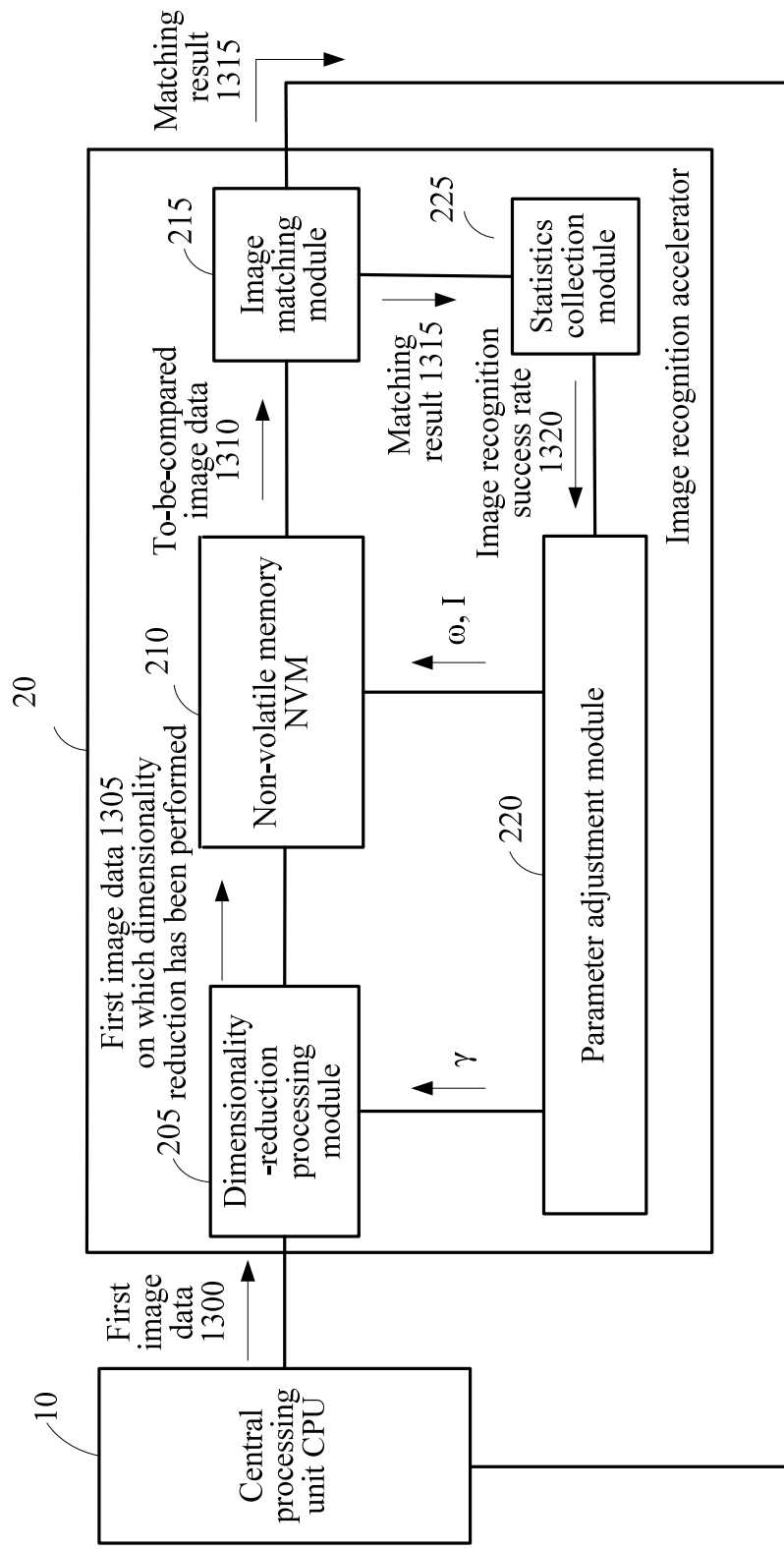


FIG. 13