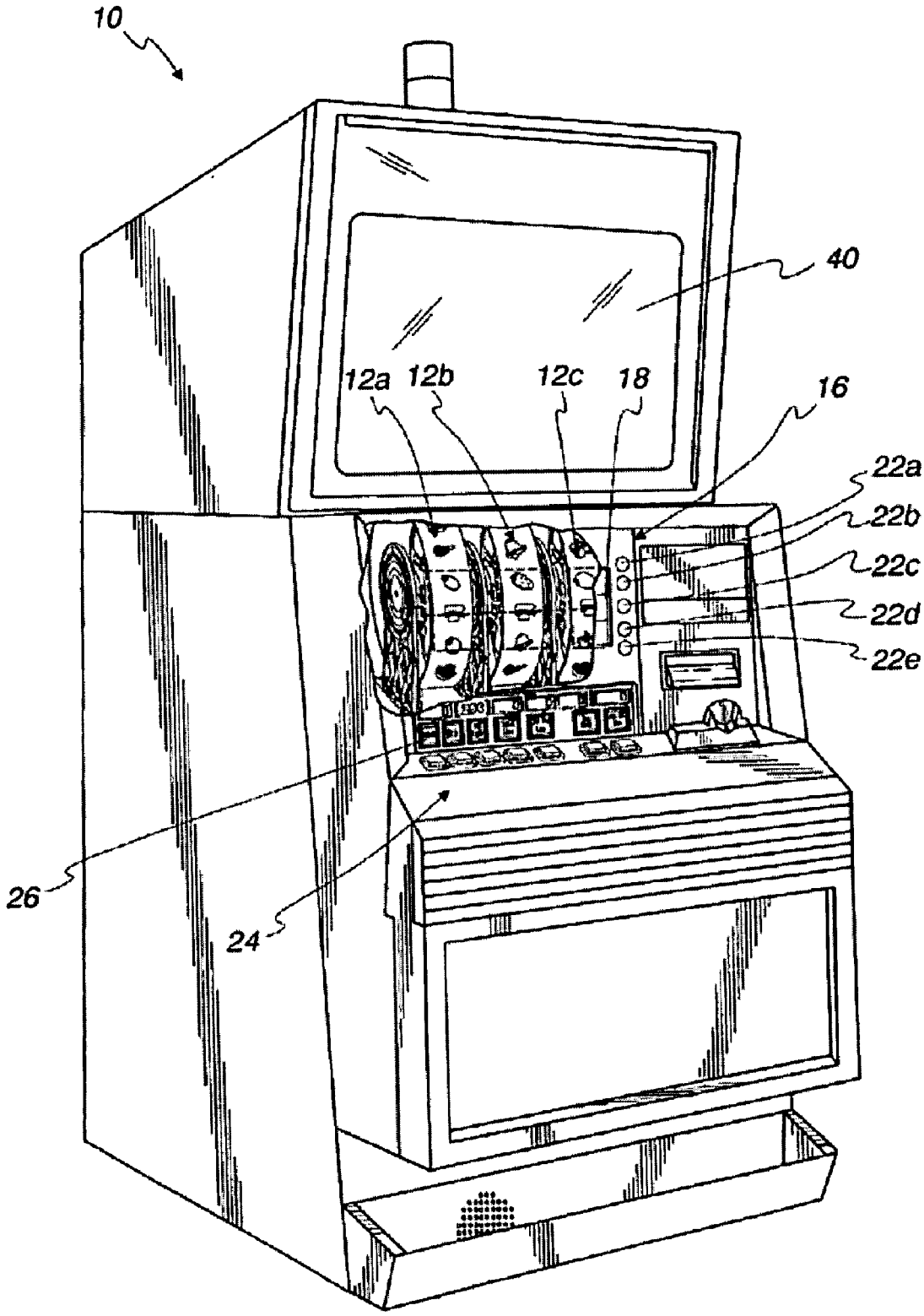FIG. 1d