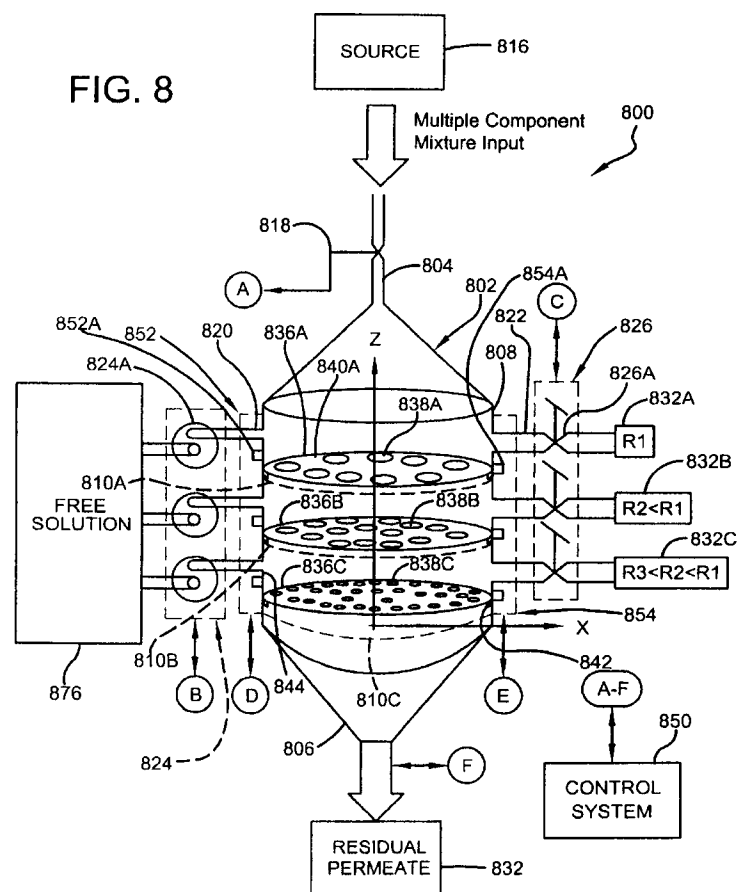


ABSTRACT

“SELECTIVELY PERFORATED GRAPHENE MEMBRANES FOR COMPOUND HARVEST, CAPTURE AND RETENTION”

Devices and related methods for arresting and retaining molecules from solution upon the surface of a perforated graphene membrane with plural apertures selected to allow passage of the solutions' solvent while simultaneously arresting desired molecules upon the surface of the membrane. The method continues with arranging the perforated graphene membranes in a sequence of successively smaller plural aperture diameters to arrest and retain successively smaller molecules in series. The dislodging devices include electromagnetic, electromechanical and electrostatic configurations.



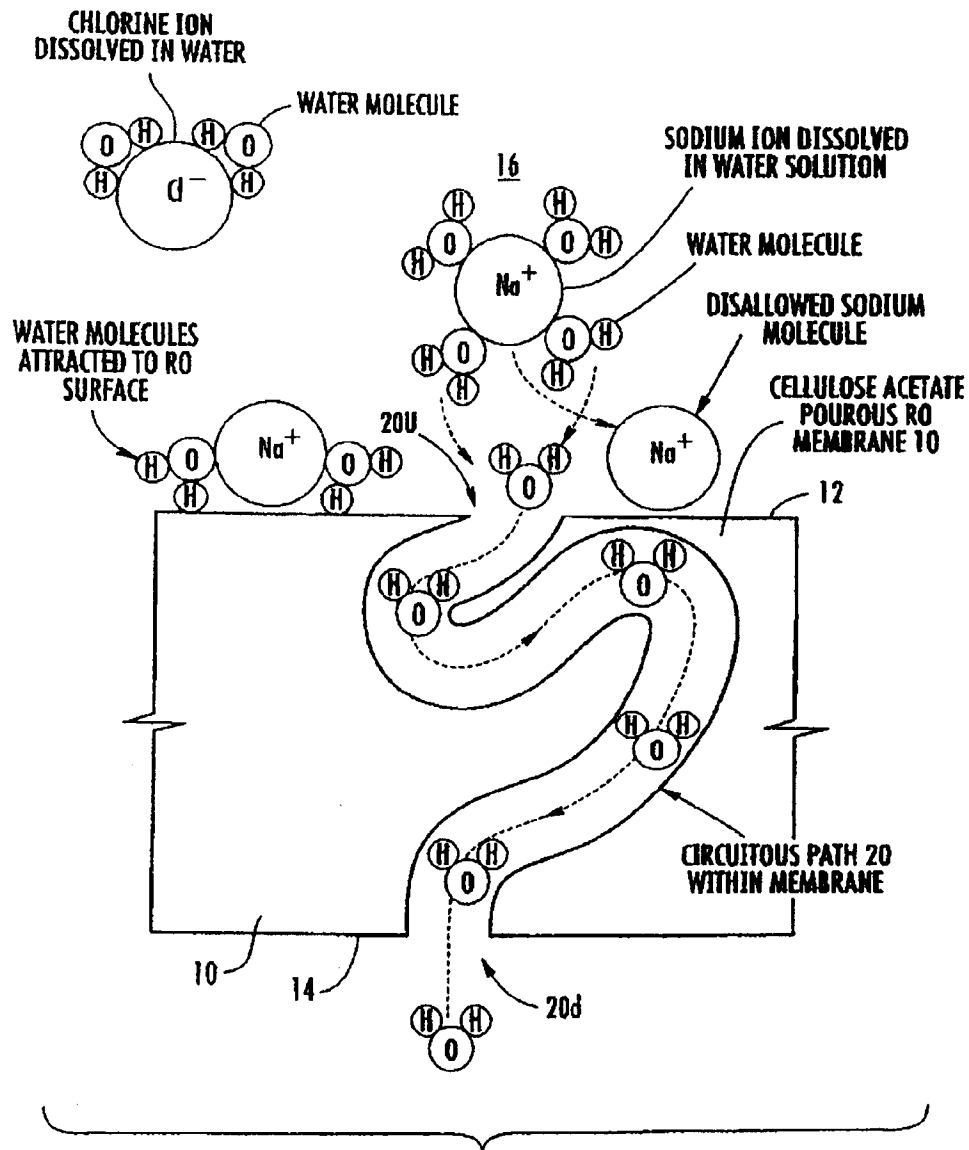


FIG. 1

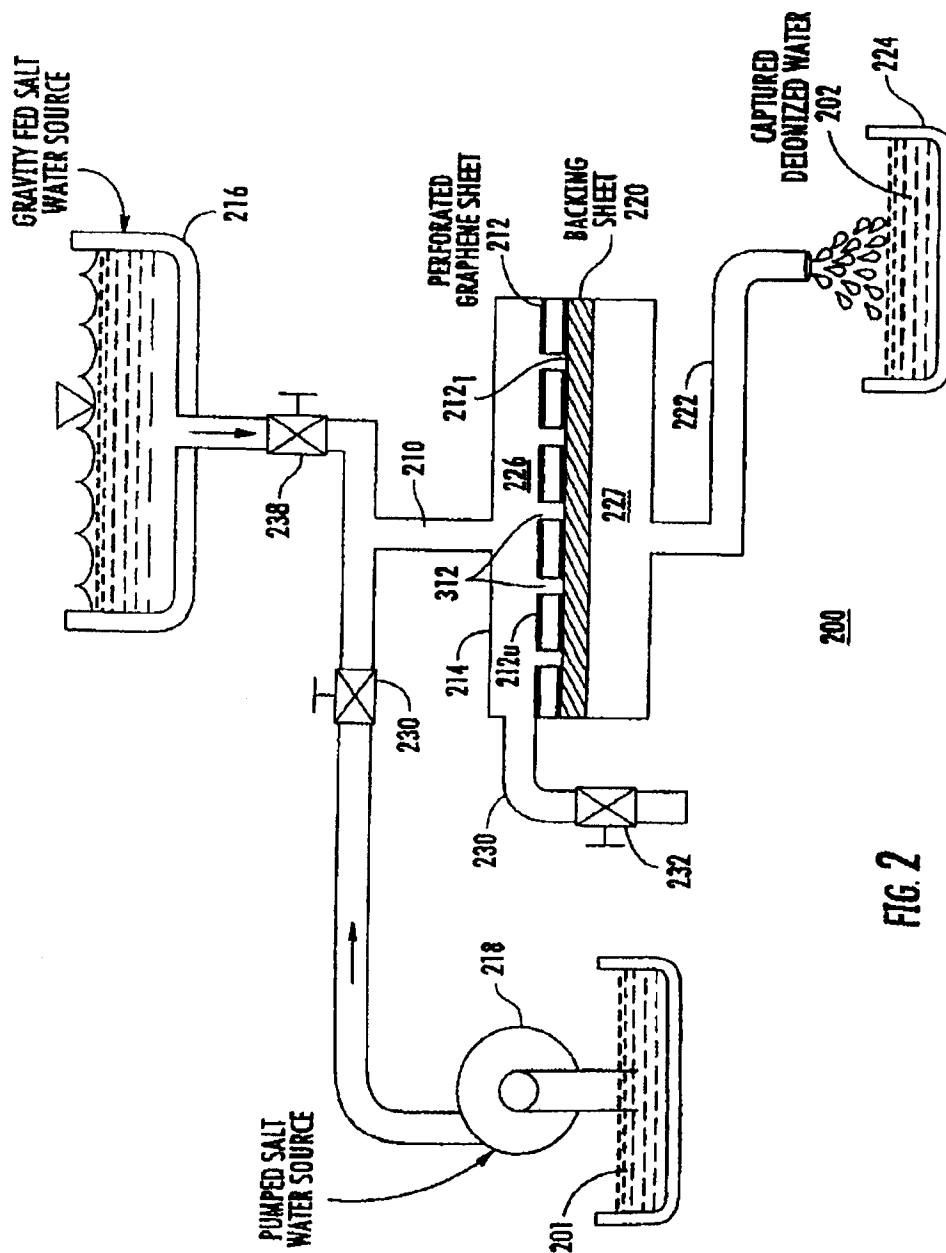
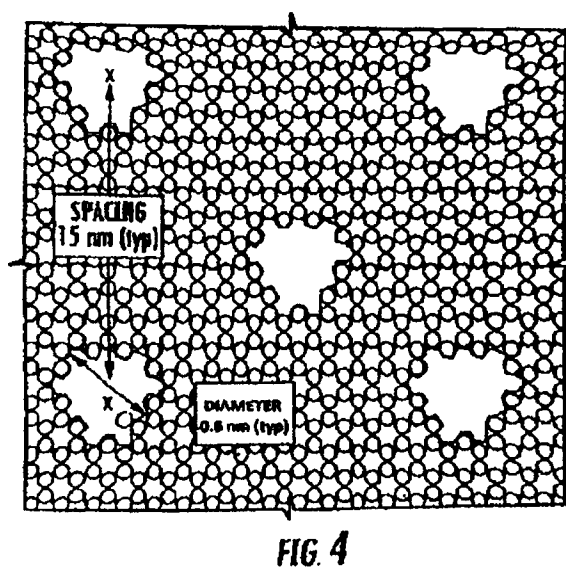
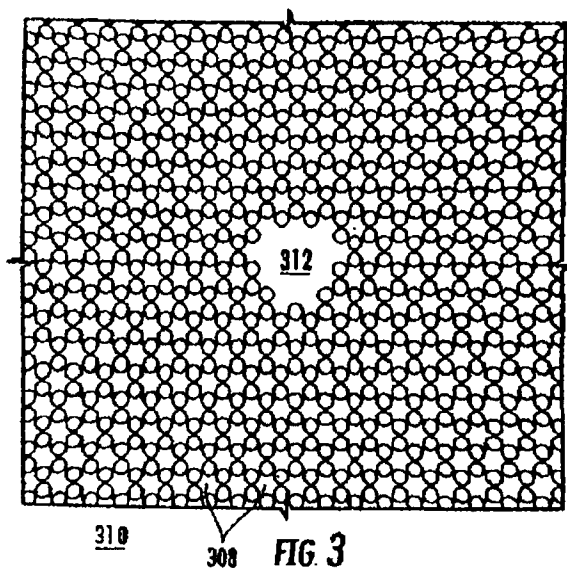


FIG. 2



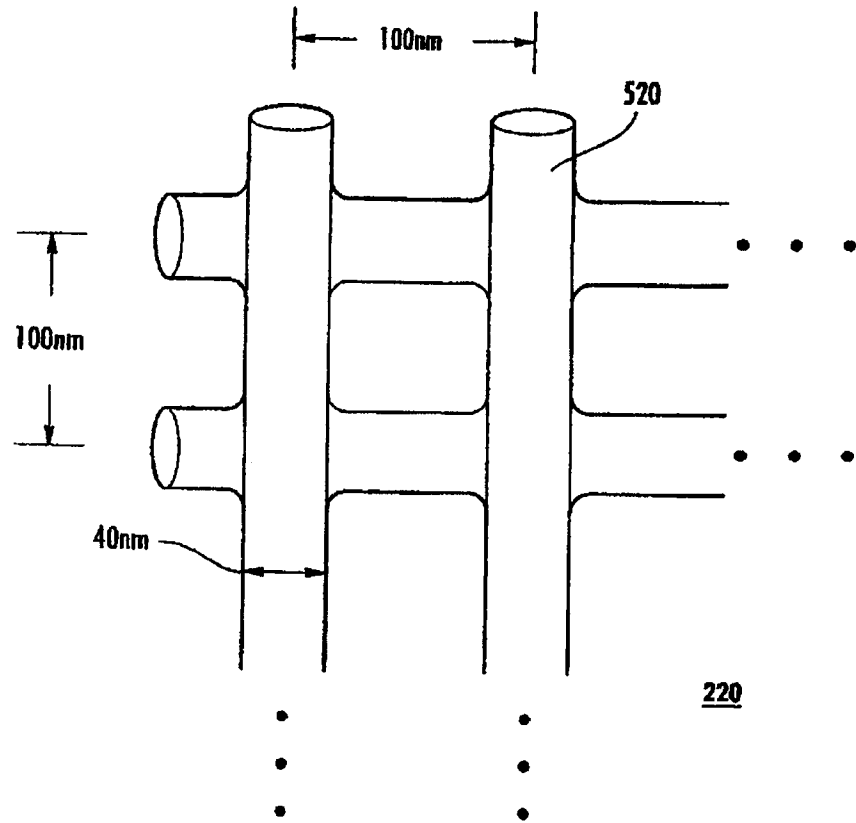


FIG. 5

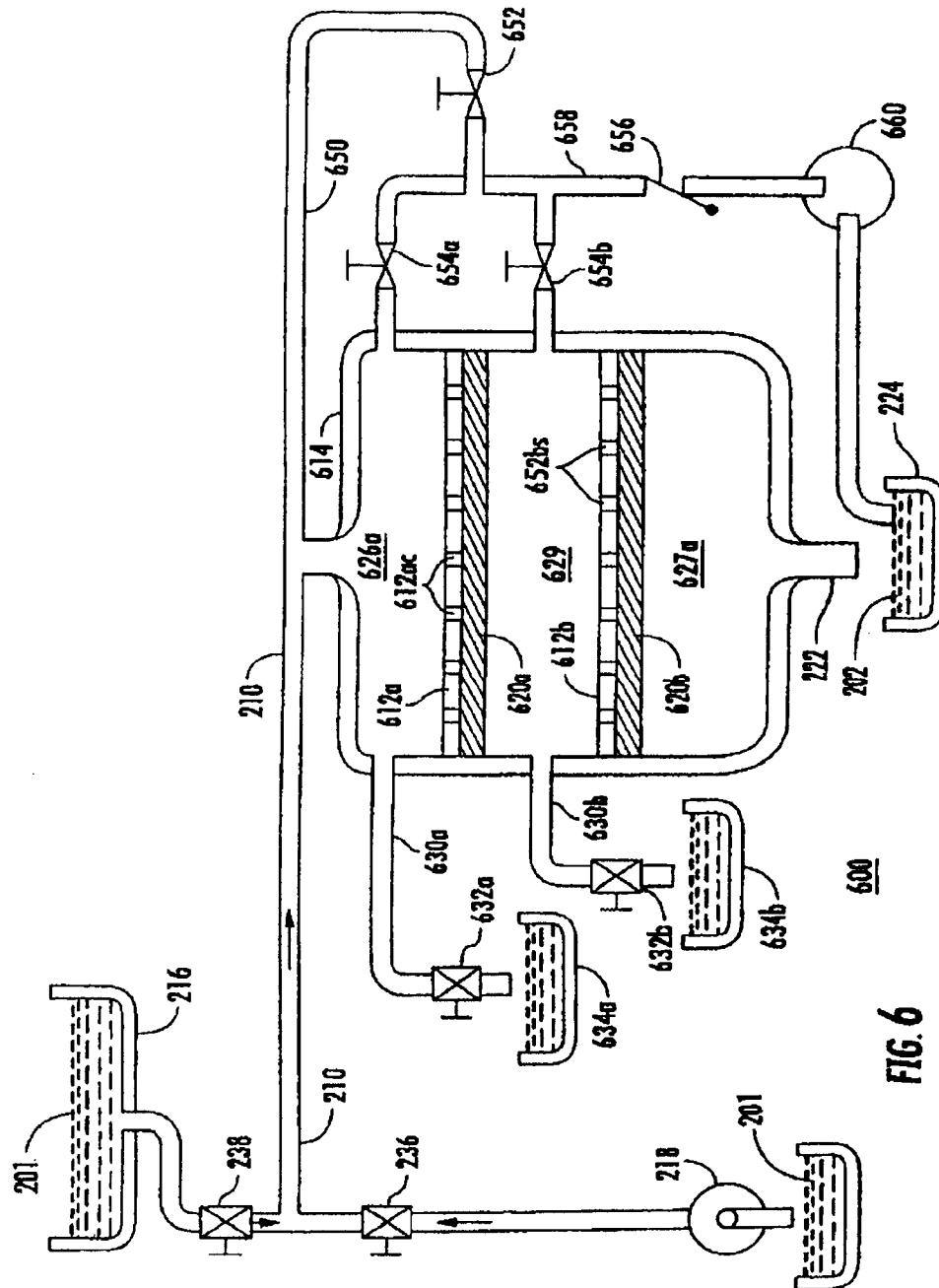


FIG. 6

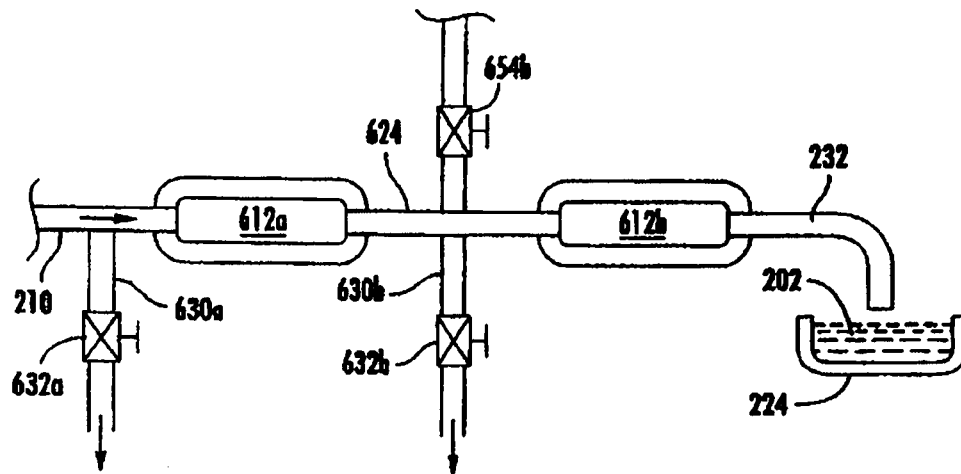


FIG. 7

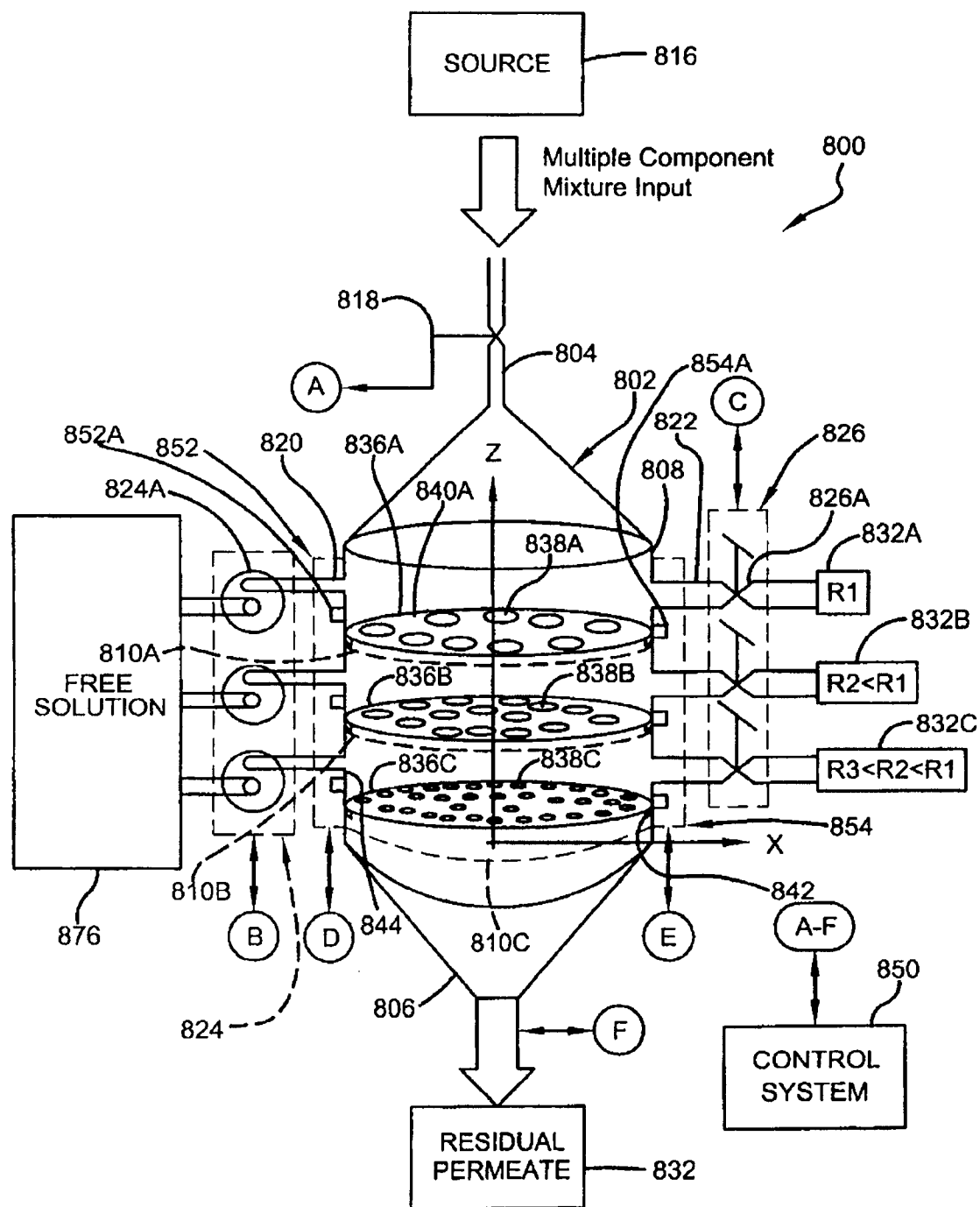
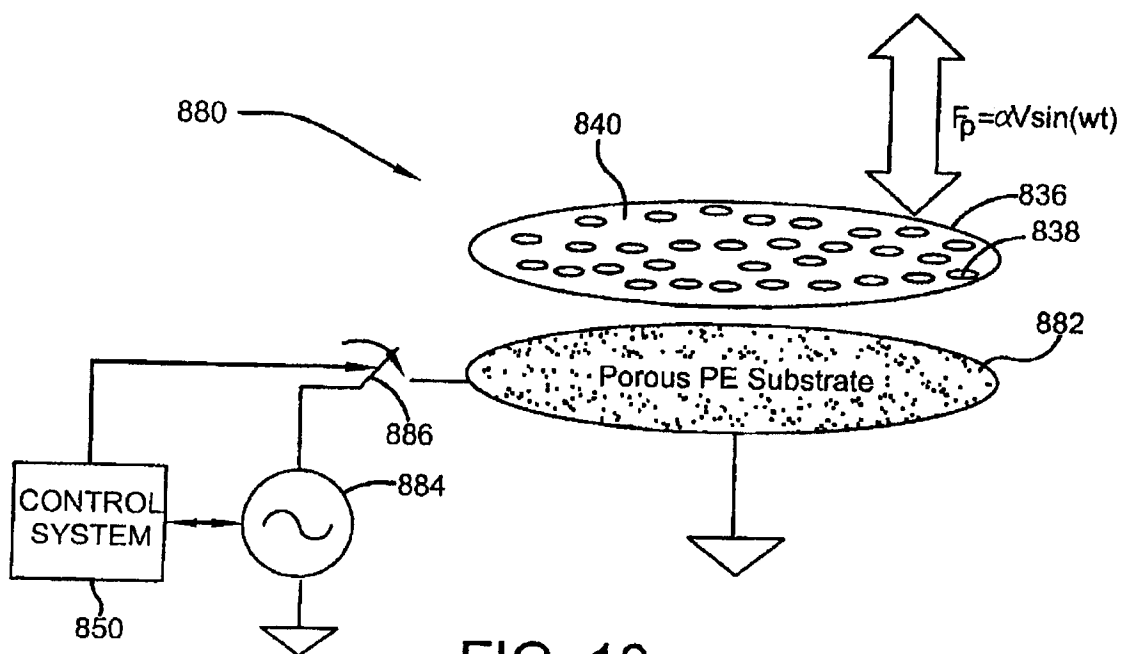
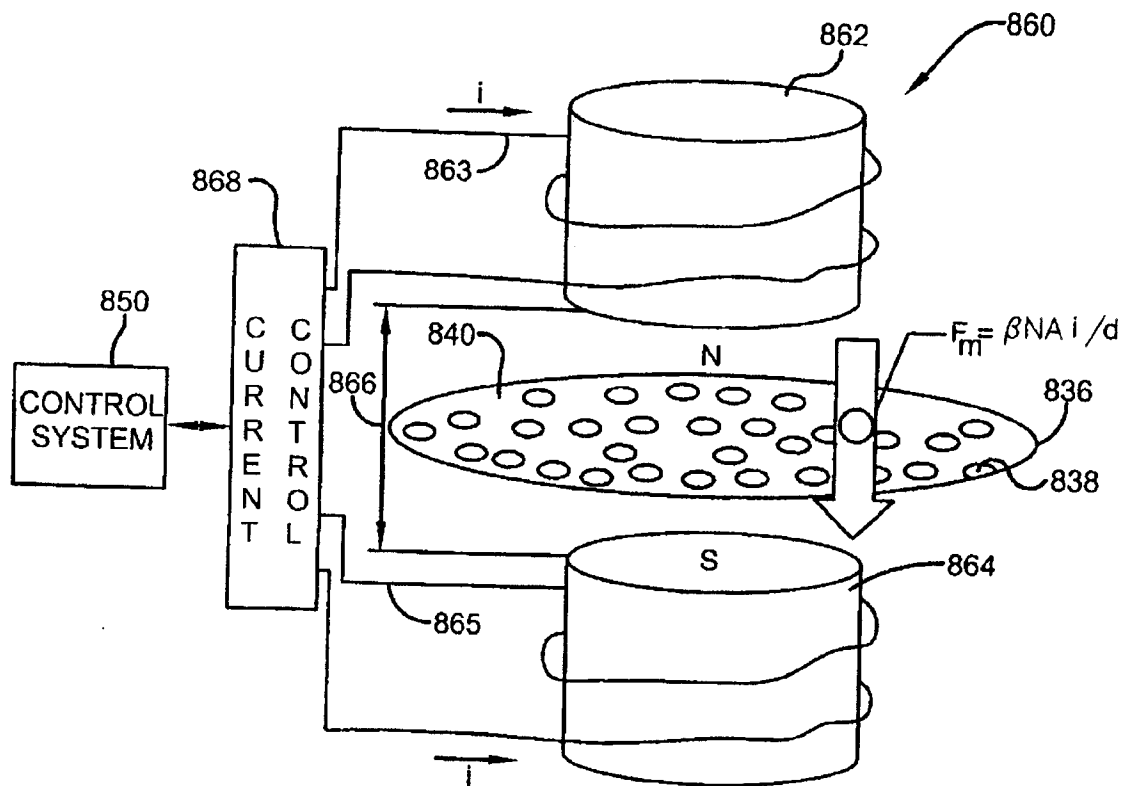


FIG. 8



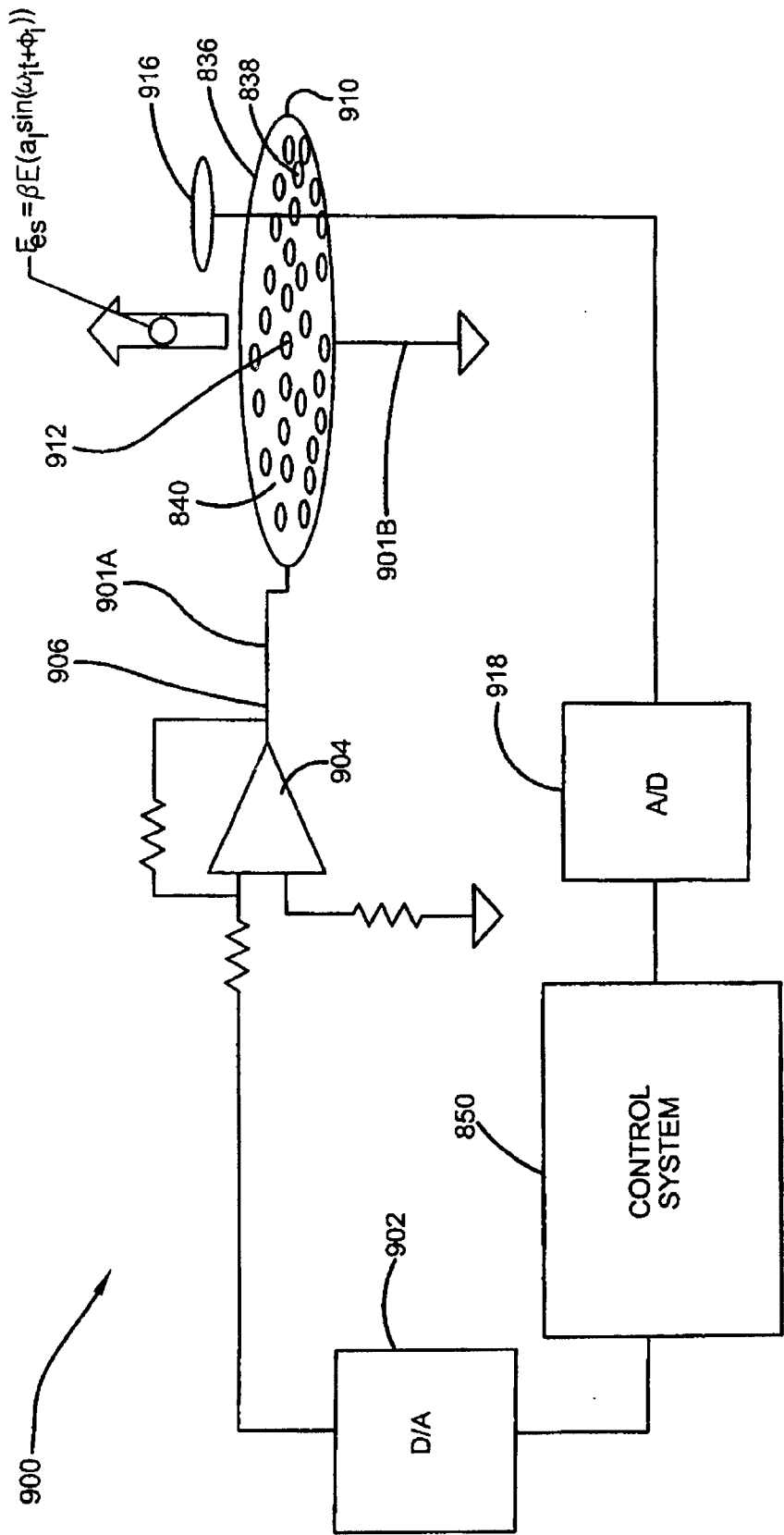


FIG. 11