

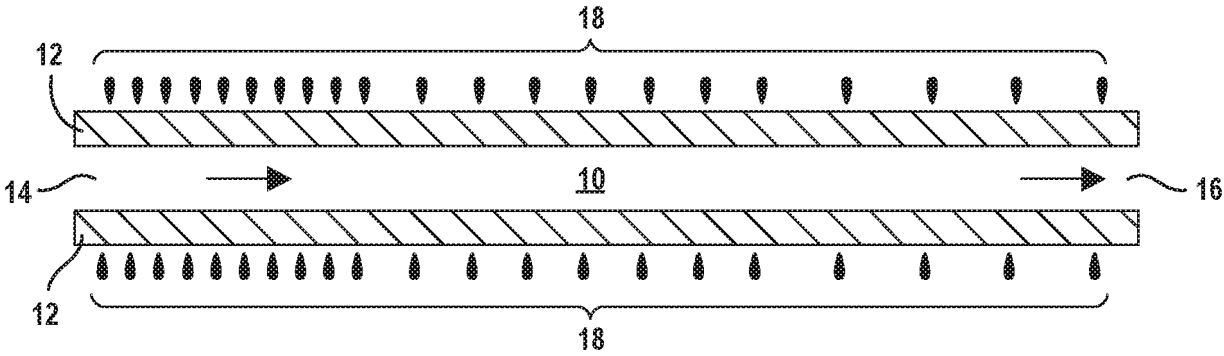


FIG. 1
Prior Art

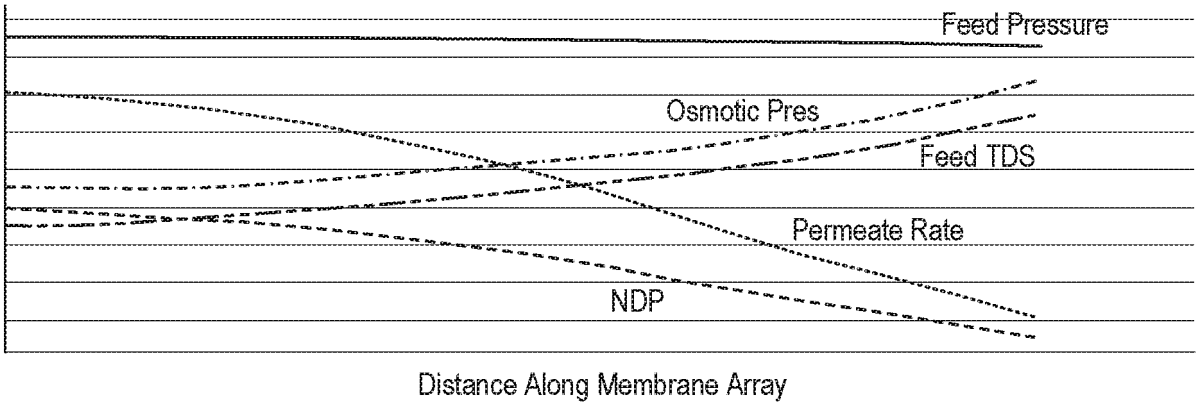


FIG. 2
Prior Art

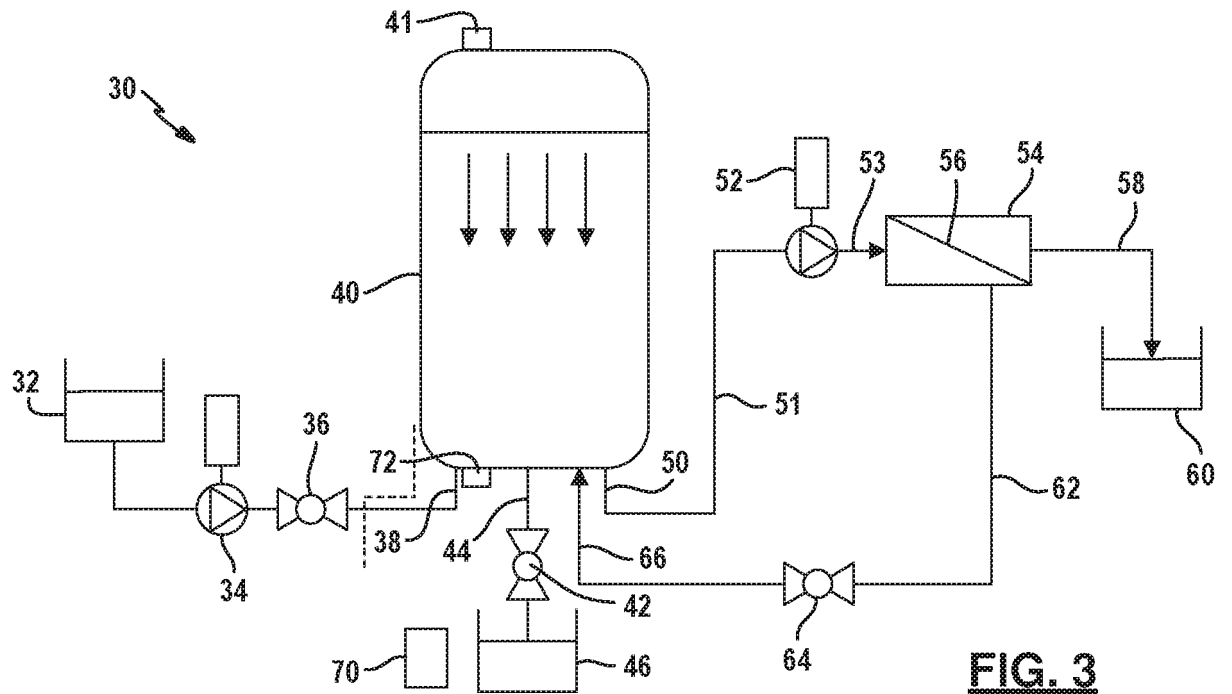


FIG. 3
Prior Art

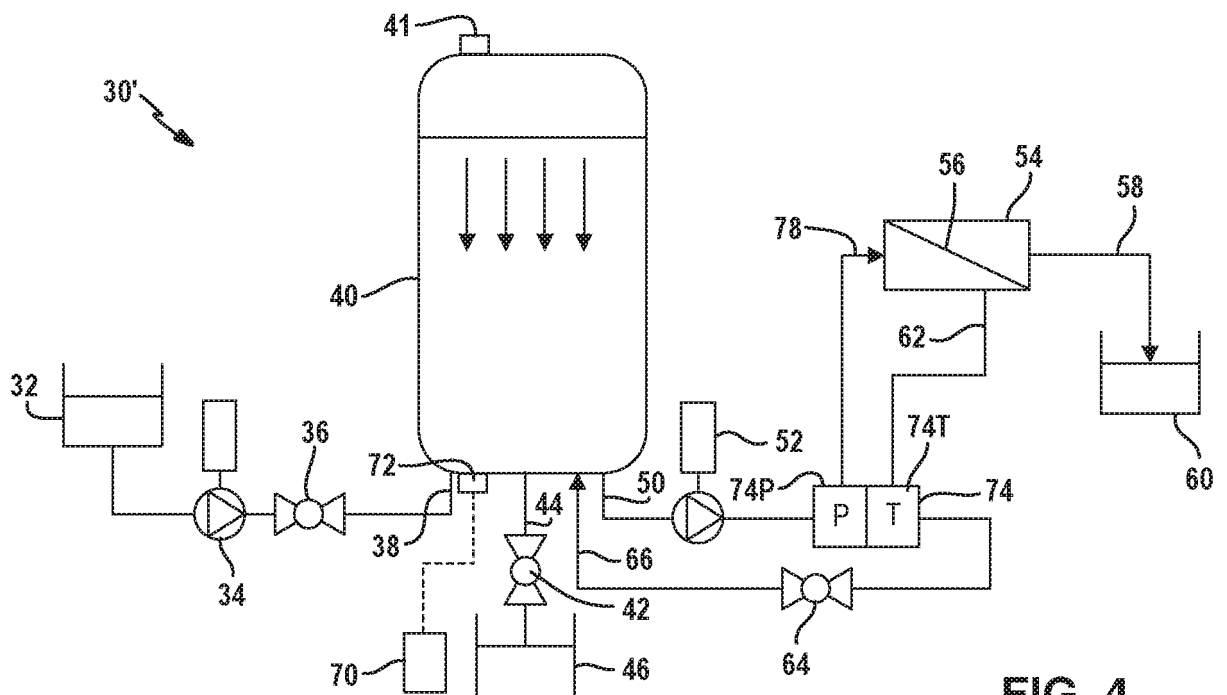


FIG. 4
Prior Art

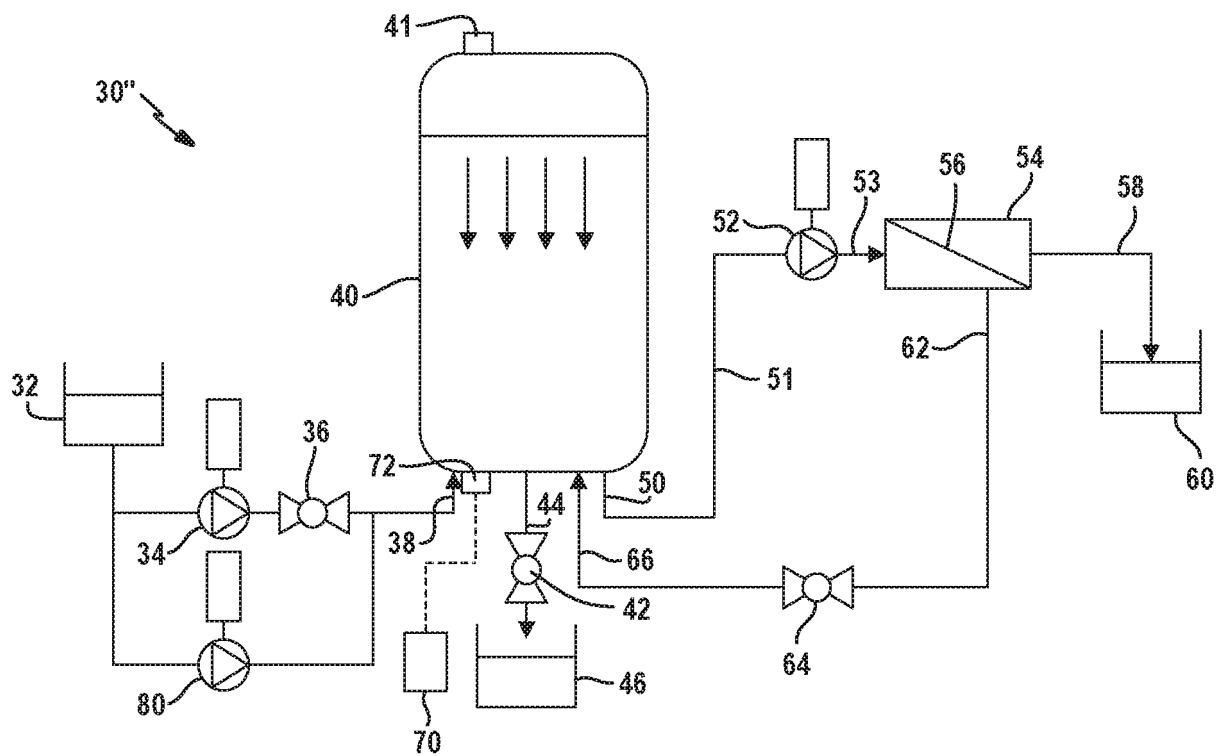
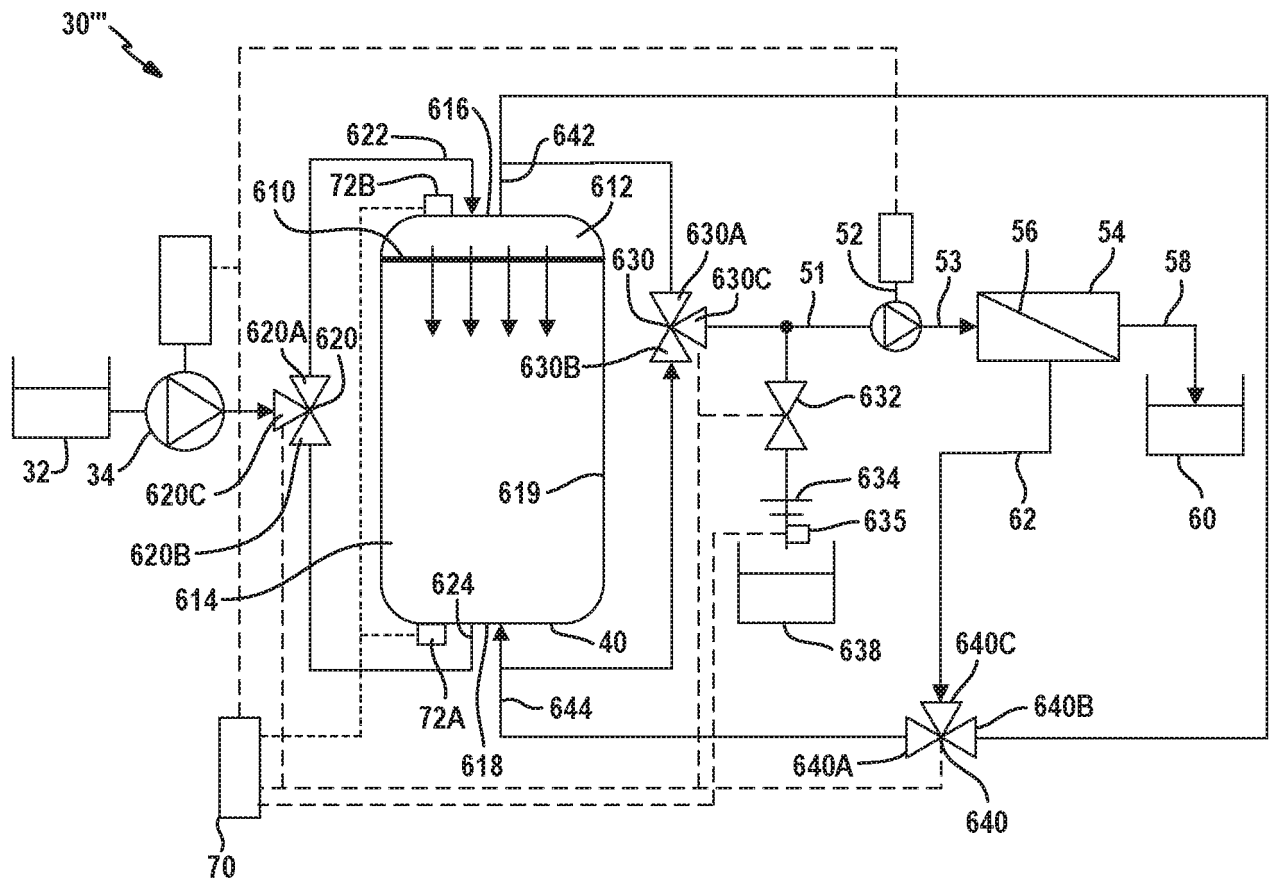
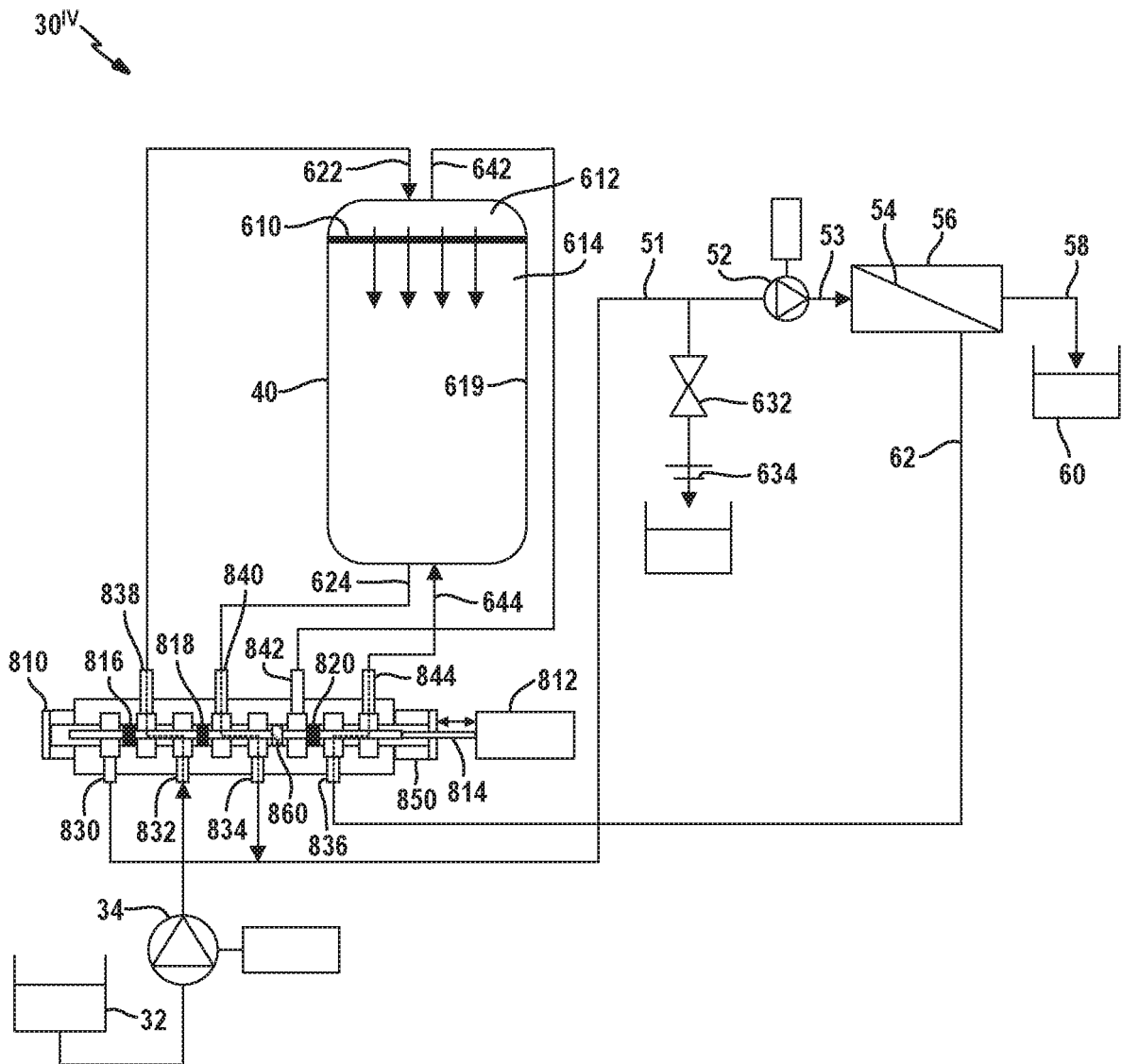


FIG. 5
Prior Art

**FIG. 6**

**FIG. 8A**

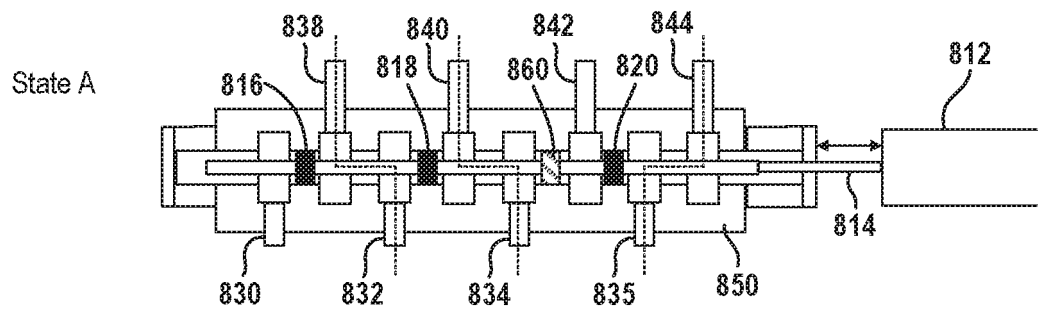


FIG. 8B

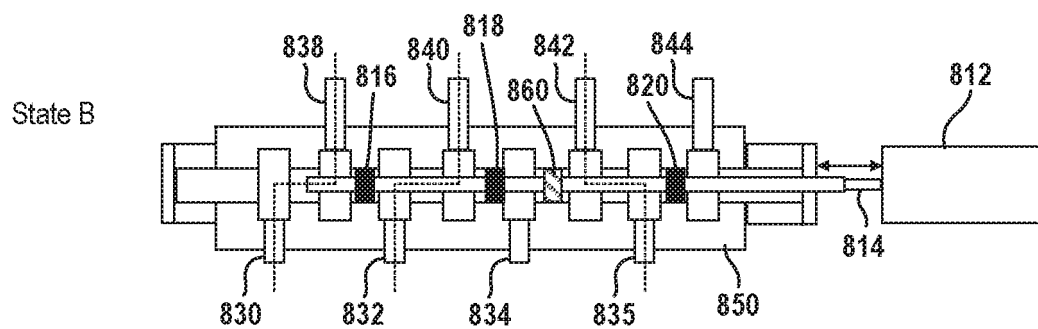


FIG. 8C

First embodiment using 3-way valves

State	Valve States				Comments
	620	630	632	640	Valve IDs
1	A	B	C	A	Making permeate from volume 614, Feed fluid enters volume 612
2	A	B	O	A	Purging brine from volume 614
3	B	A	C	B	Making permeate from volume 612, Feed entering volume 614
4	B	A	O	B	Purging brine from volume 612
Pump 52 may increase speed and flow during purge process					

FIG. 7

Second embodiment using spool valve

State	Valve States		Comments
	SV	632	Valve IDs
1	A	C	Making permeate from volume 614, Feed fluid enters volume 612
2	A	O	Purging brine from volume 614. Continues until feed has reached the membrane
3	B	C	Making permeate from volume 612, Feed fluid entering volume 614
4	B	O	Purging brine from volume 612. Continues until feed has reached the membrane
Pump 52 may increase speed and flow during purge process			

FIG. 9

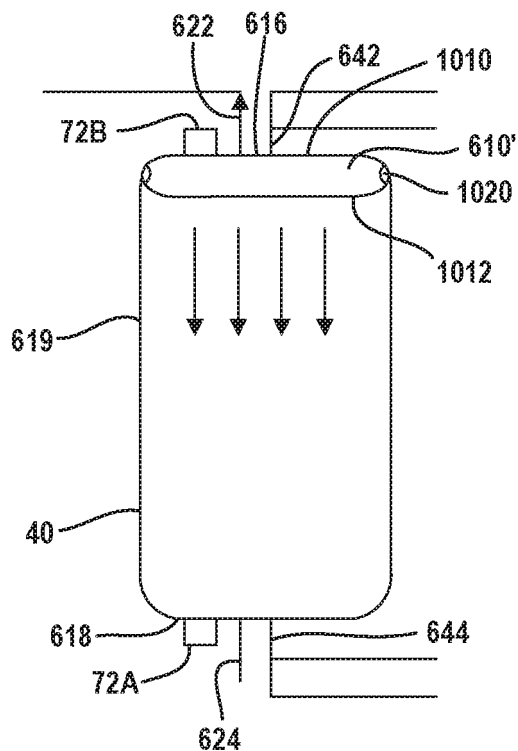


FIG. 10

FIG. 11

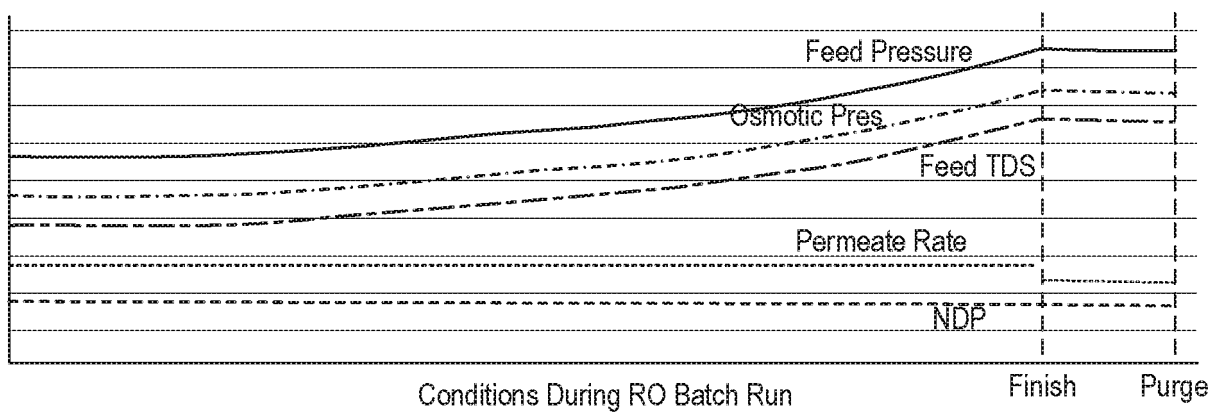
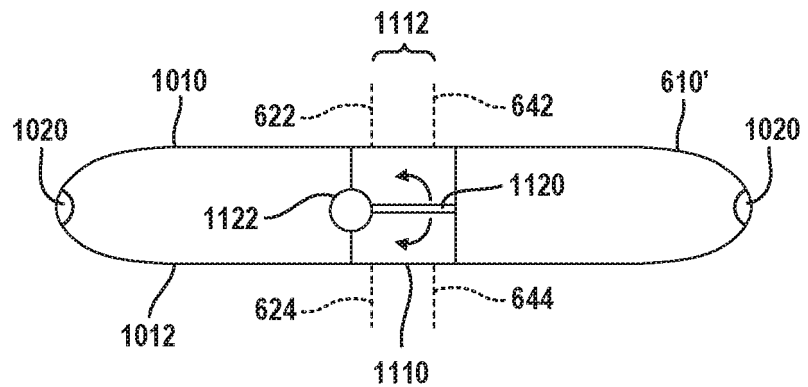


FIG. 12

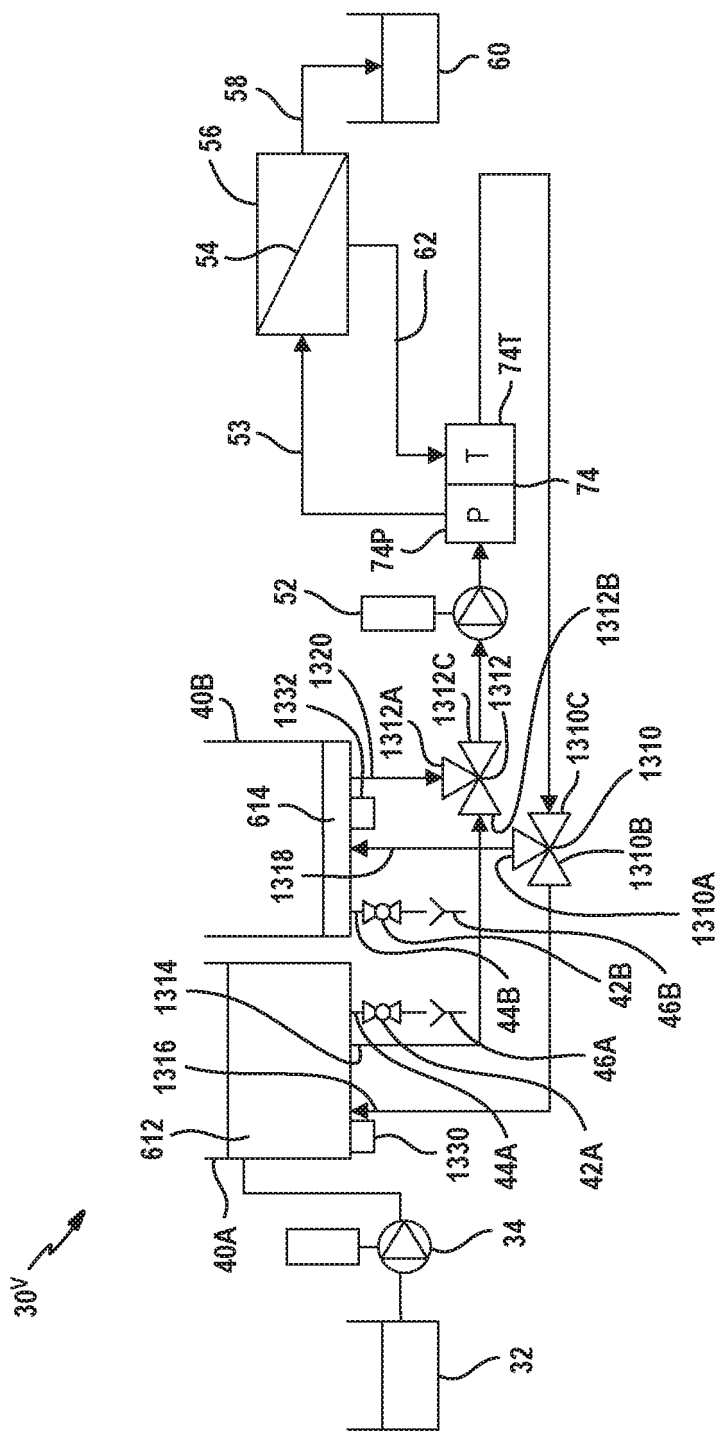
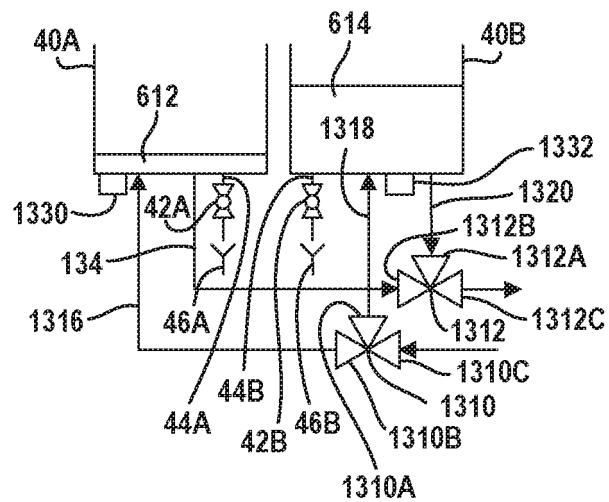
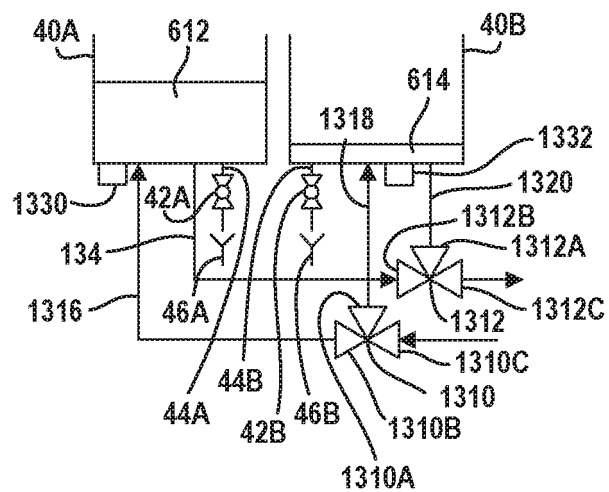


FIG. 13

**FIG. 14A****FIG. 14B**

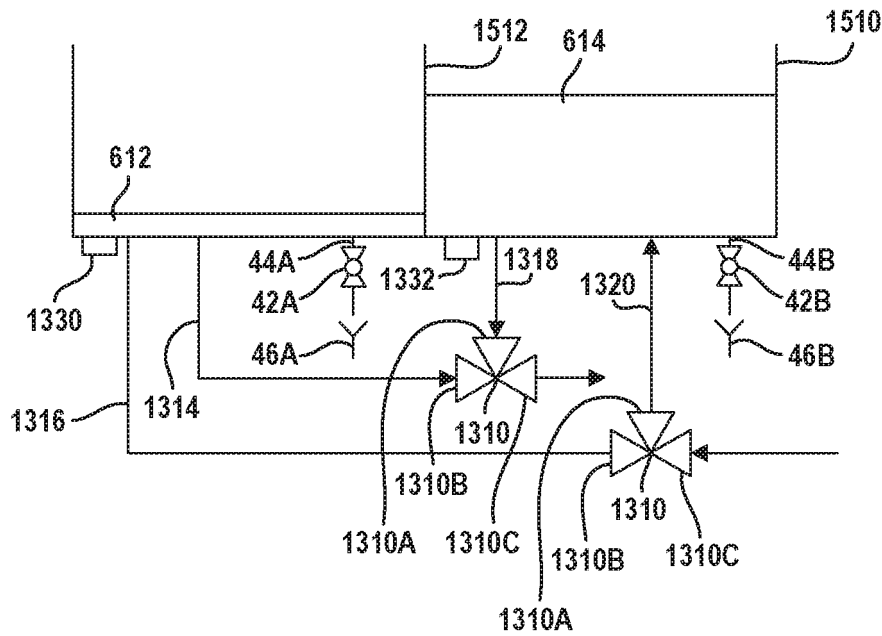


FIG. 15A

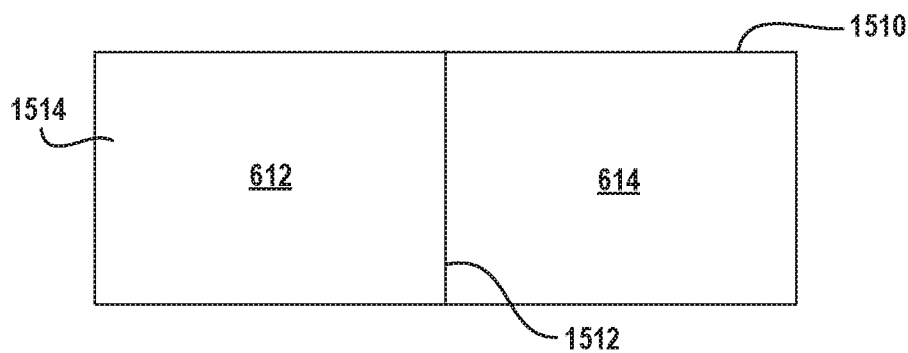


FIG. 15B

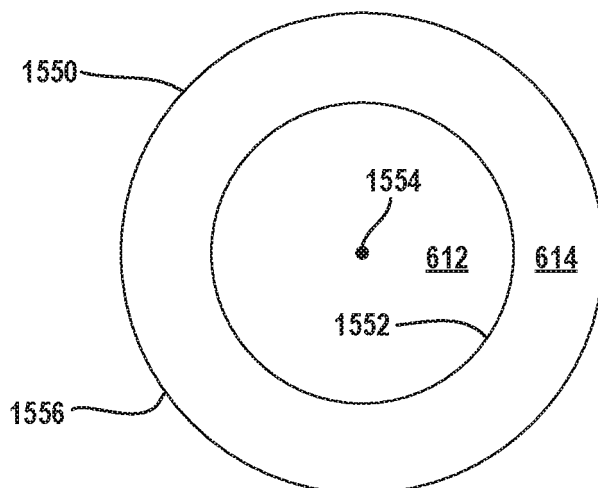


FIG. 15C

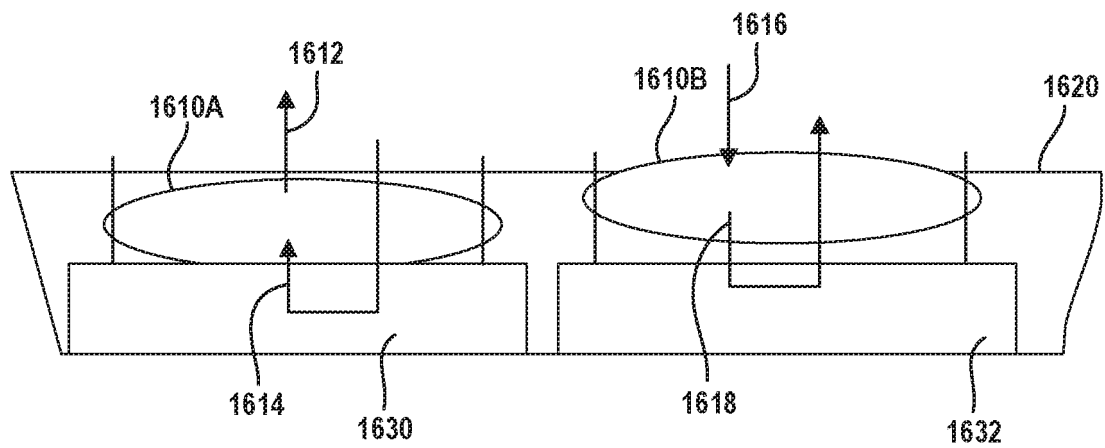


FIG. 16

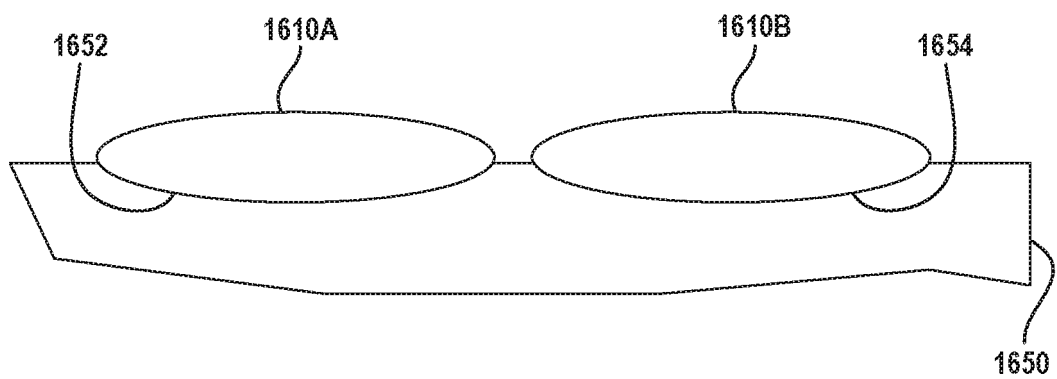


FIG. 17