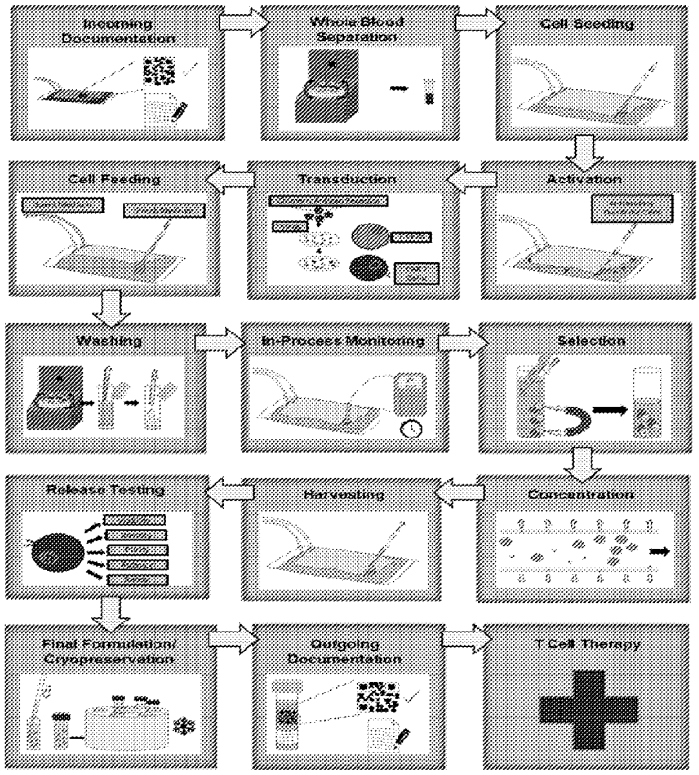
Incoming Documentation
Whole Blood Separation
Cell Seeding
Cell Feeding
Transduction
Activation
Washing
In-Process Monitoring
Selection
Release Testing
Harvesting
Concentration
Final Formulation/ Cryopreservation
Outgoing Documentation
T Cell Therapy

FIG. 1

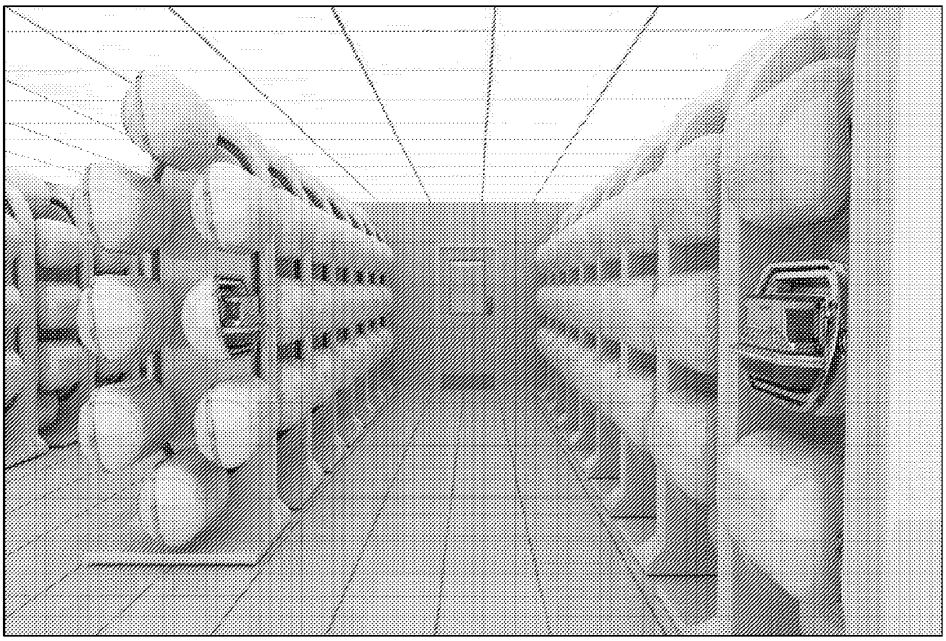

FIG. 2

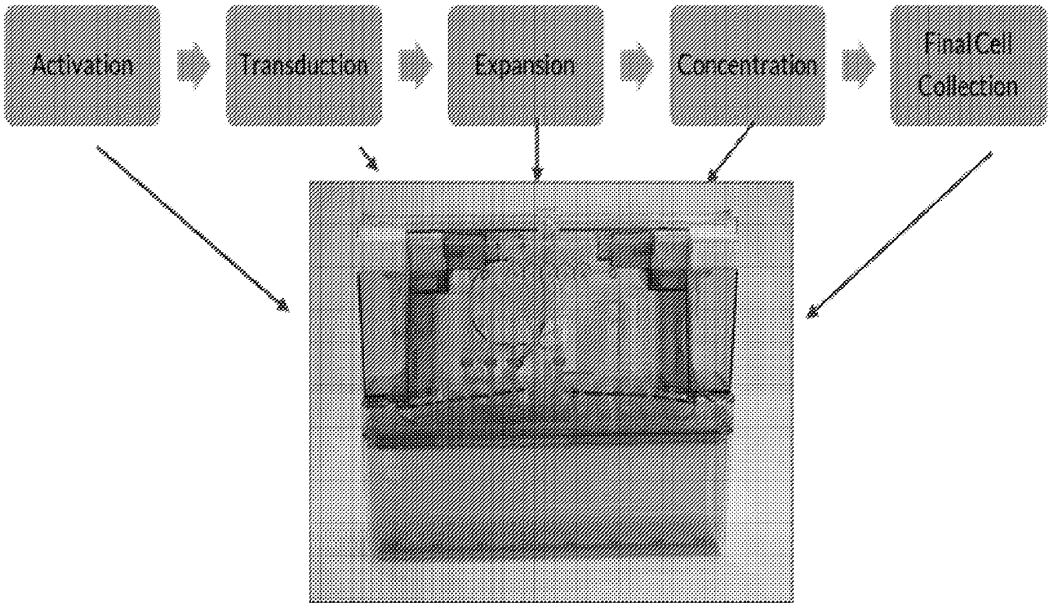
Activation
Transduction
Expansion
Concentration
Final Cell Collection

FIG. 3

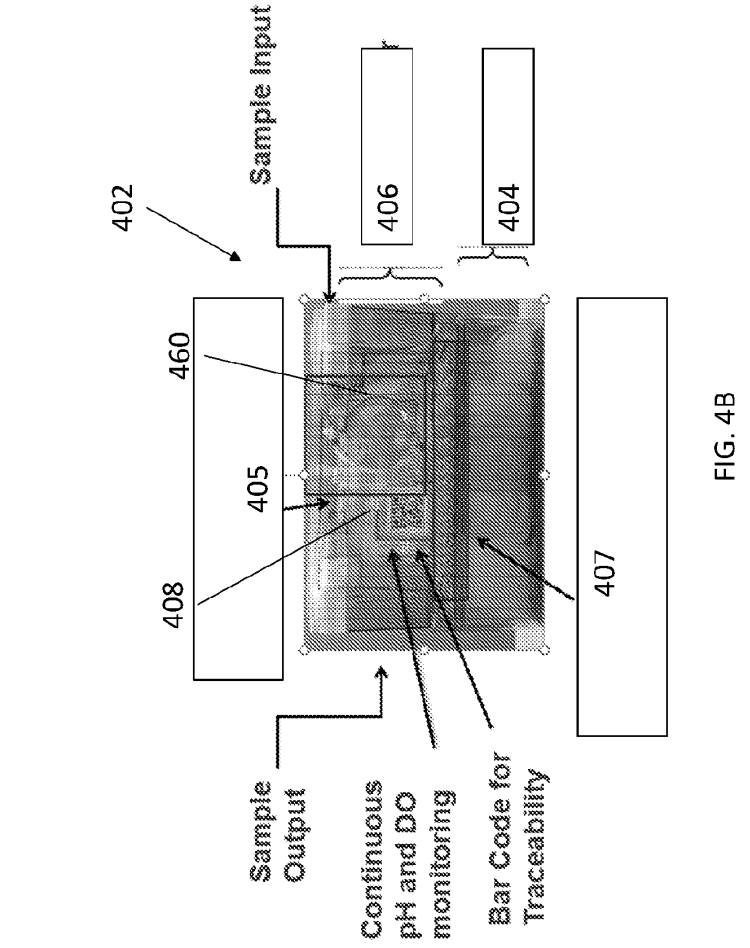

FIG. 4B

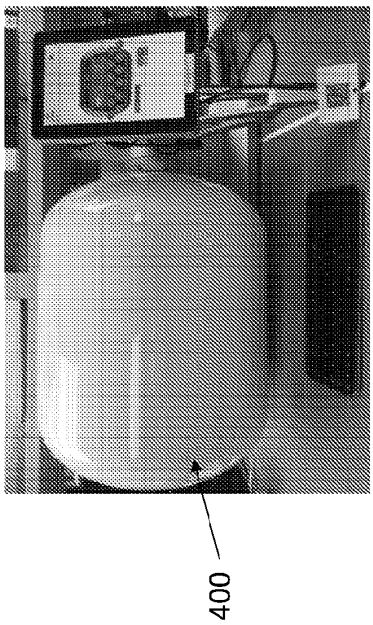

FIG. 4A

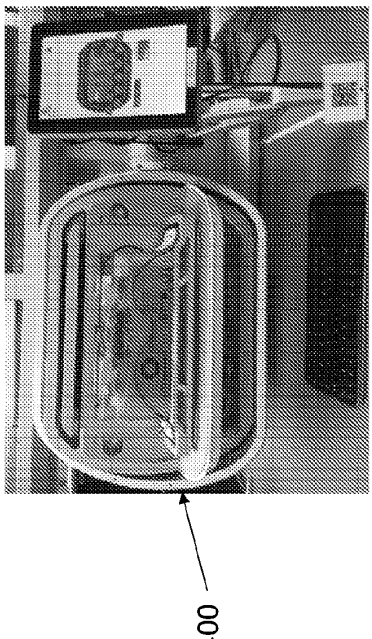

FIG. 4C

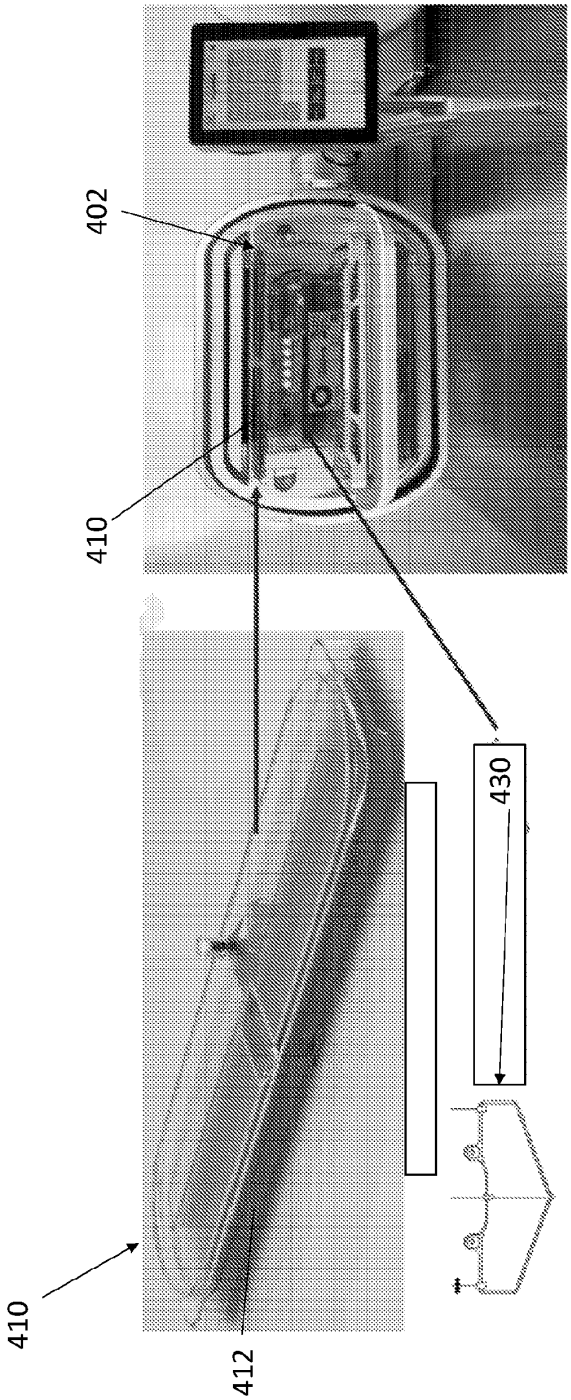

FIG. 4E

FIG. 4D

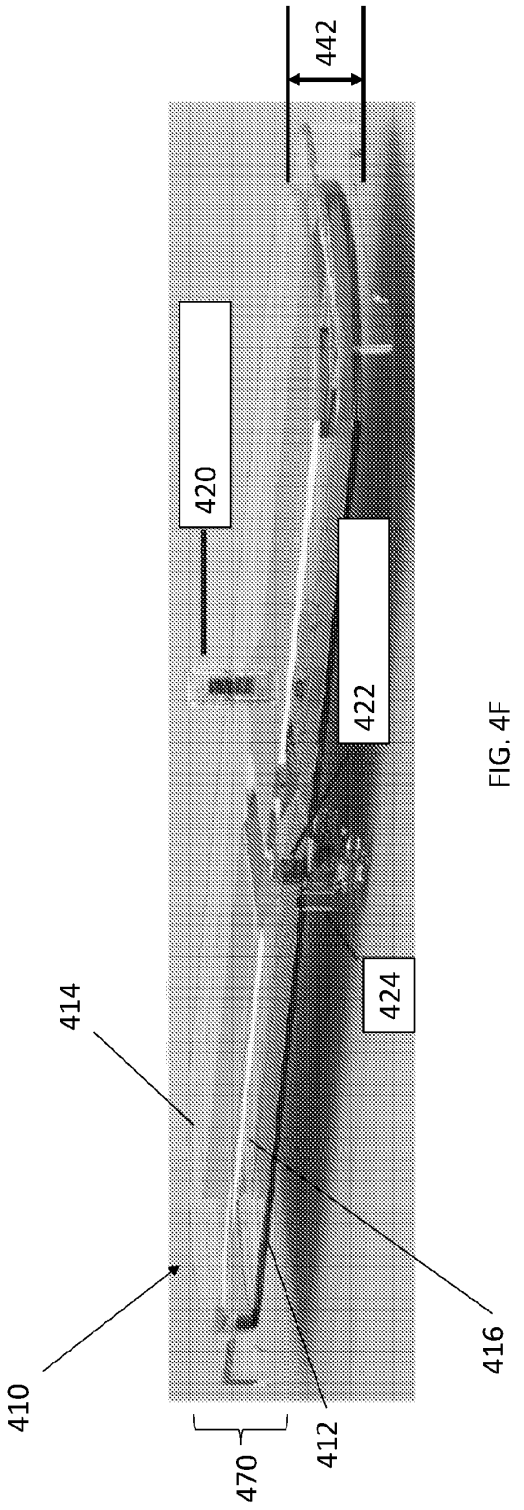

FIG. 4F

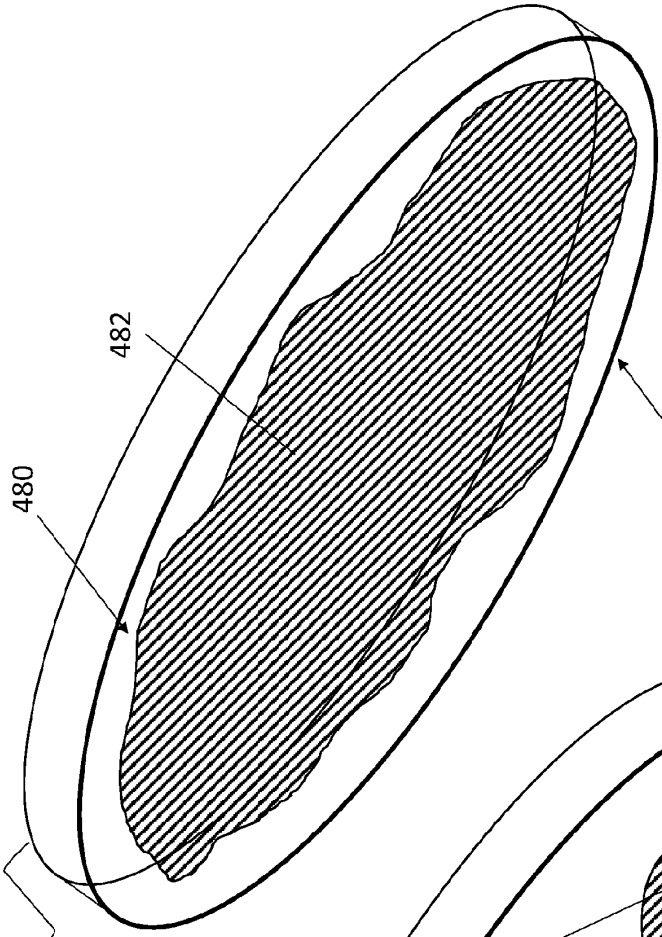

FIG. 4H

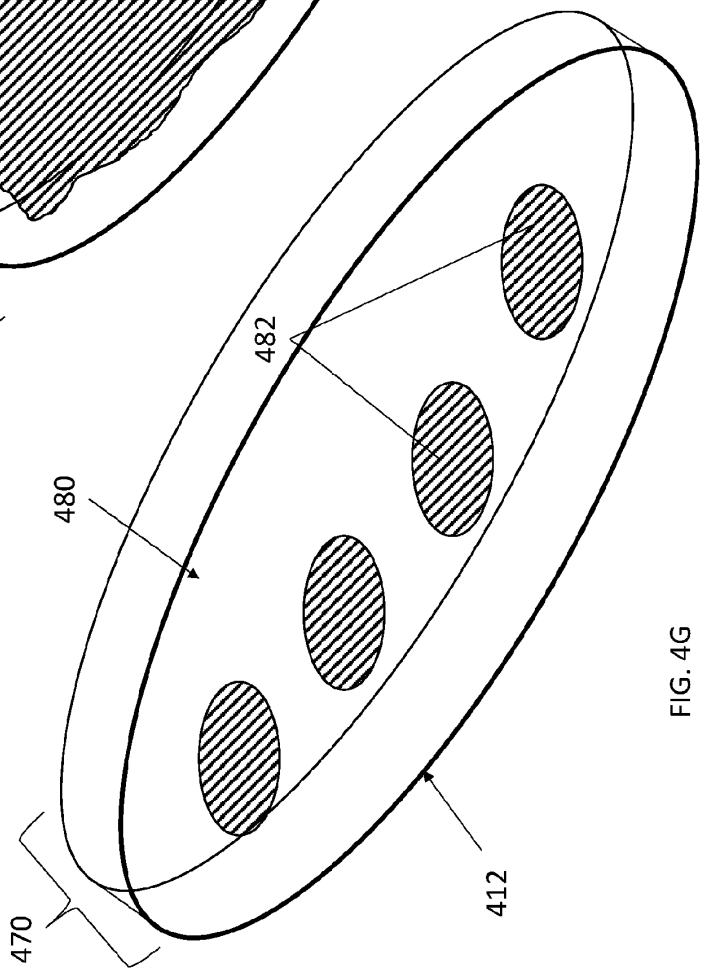

FIG. 4G

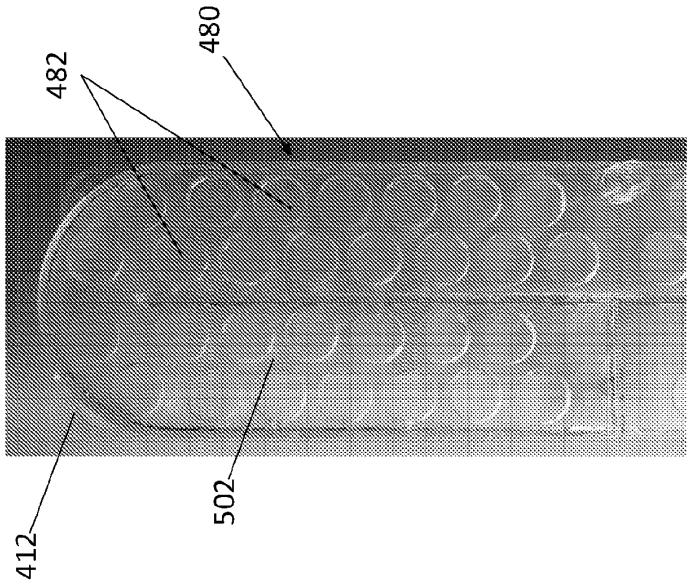

FIG. 5B

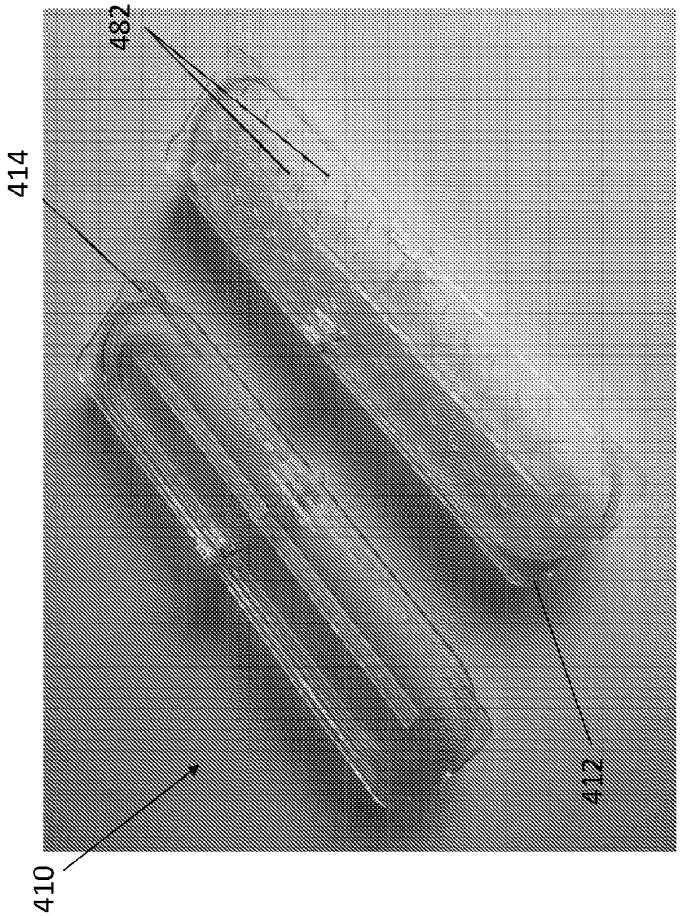

FIG. 5A

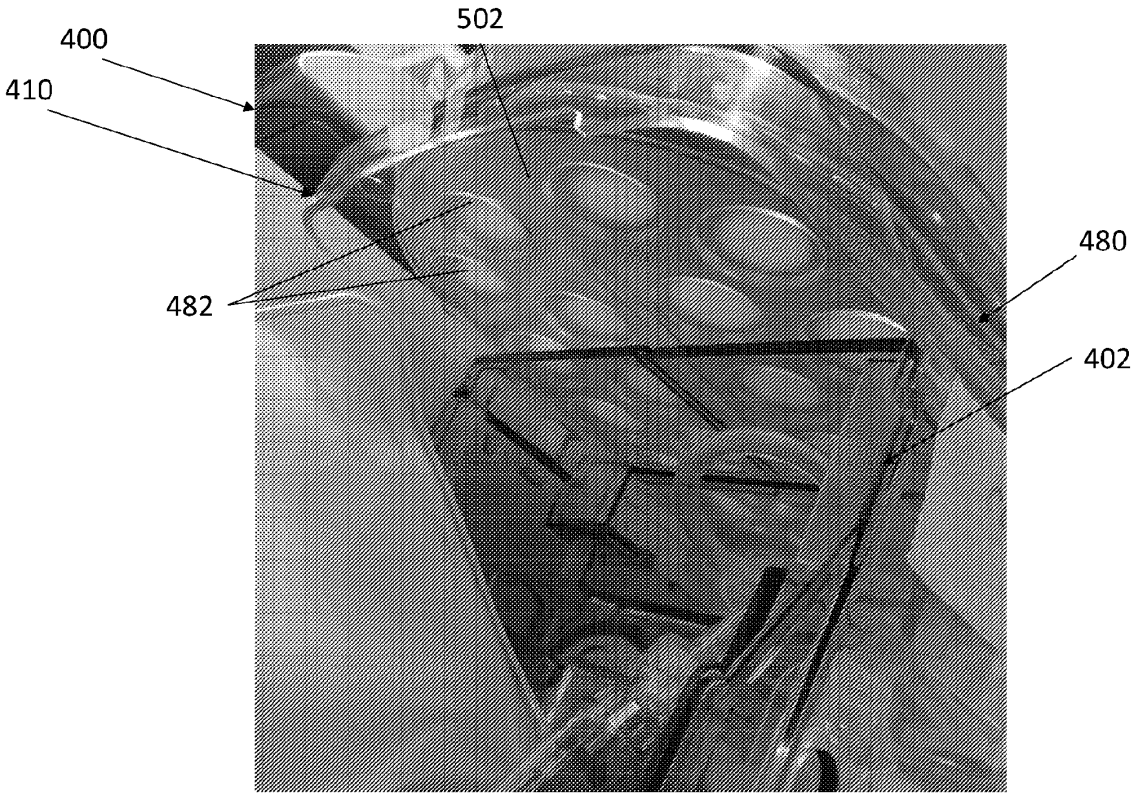

FIG. 5C

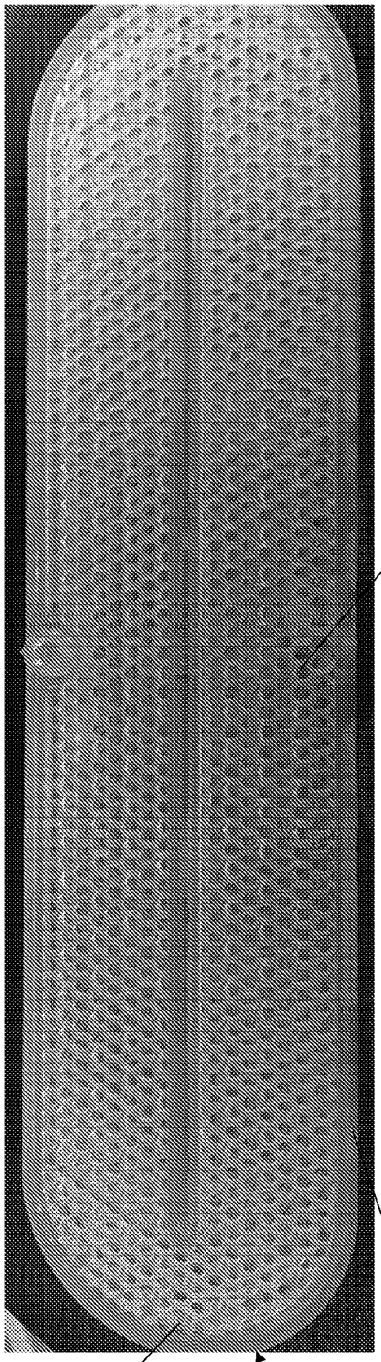

FIG. 5D

FIG. 5E

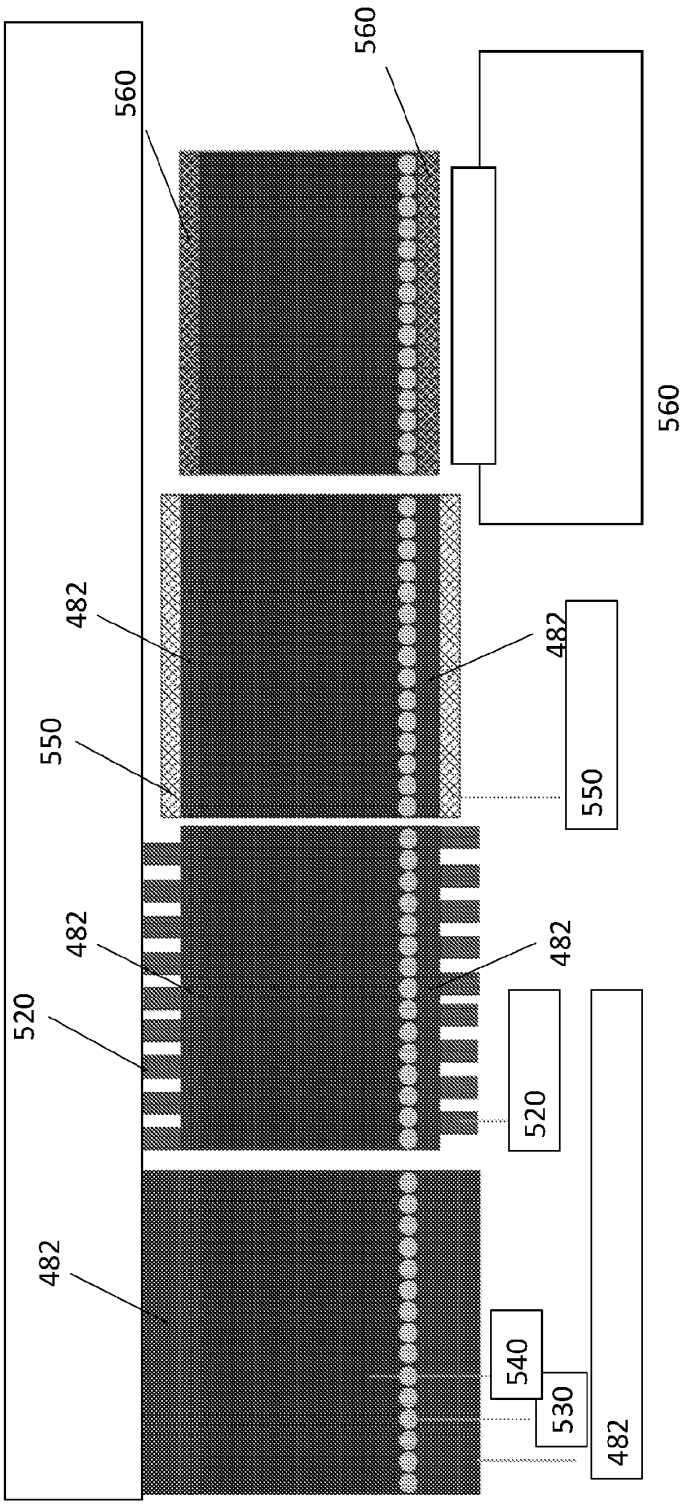

FIG. 5I

FIG. 5H

FIG. 5G

FIG. 5F

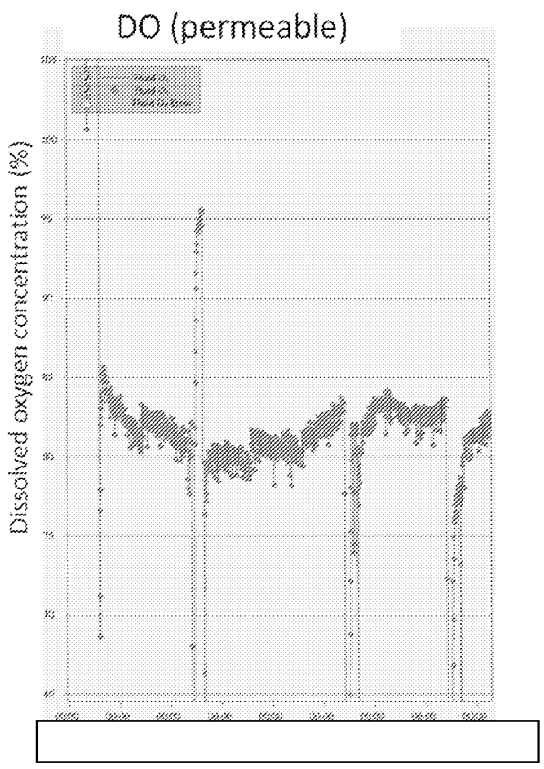
DO (permeable)
Dissolved oxygen concentration (%)

FIG. 6A

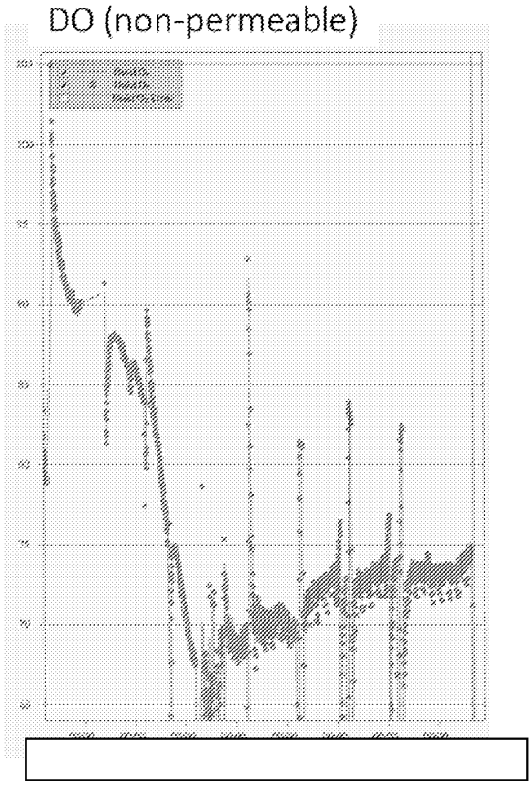
DO (non-permeable)

FIG. 6B

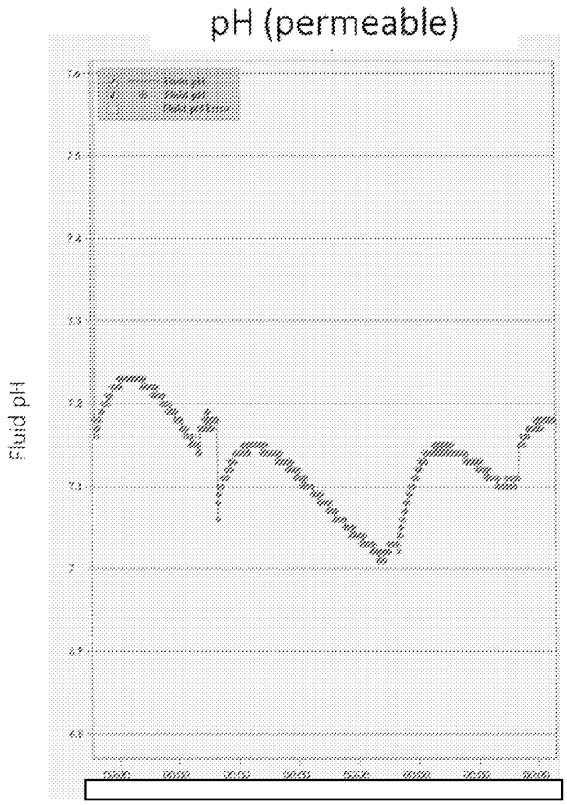

FIG. 6C

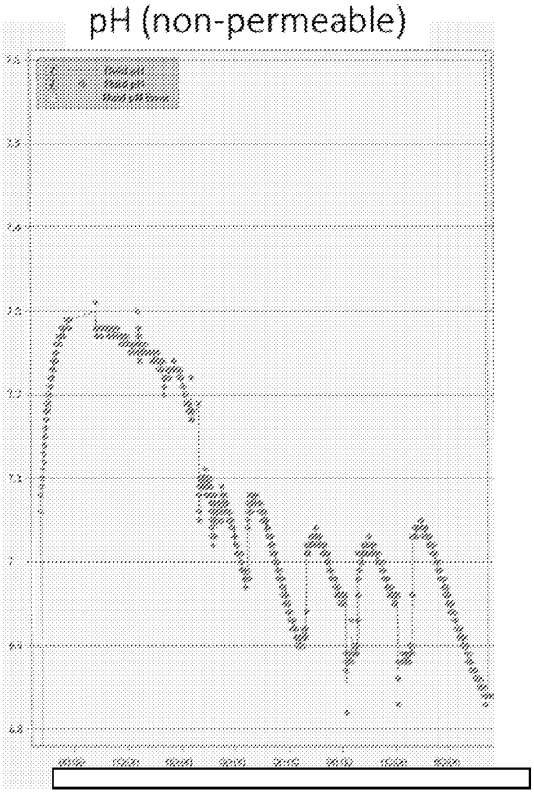

FIG. 6D

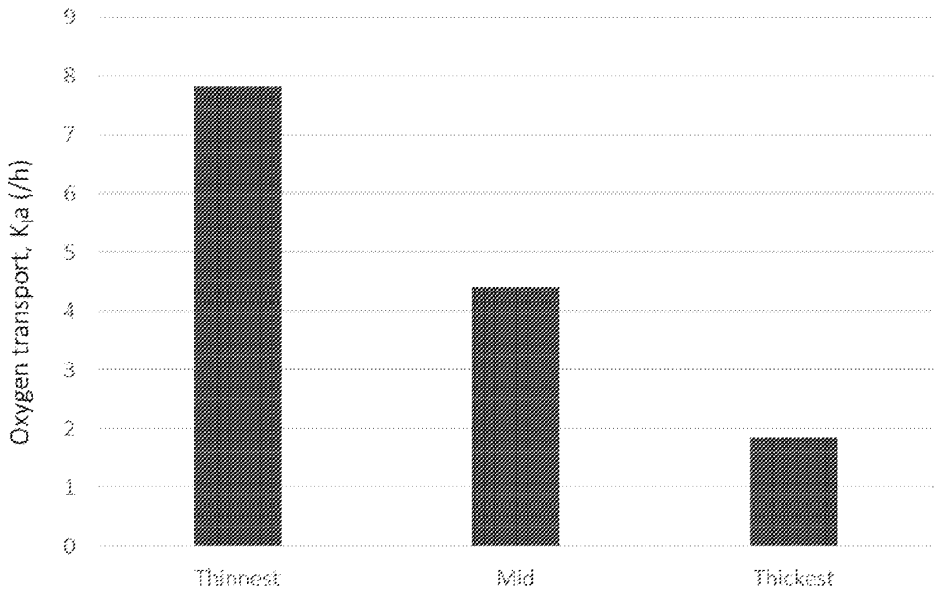

FIG. 7

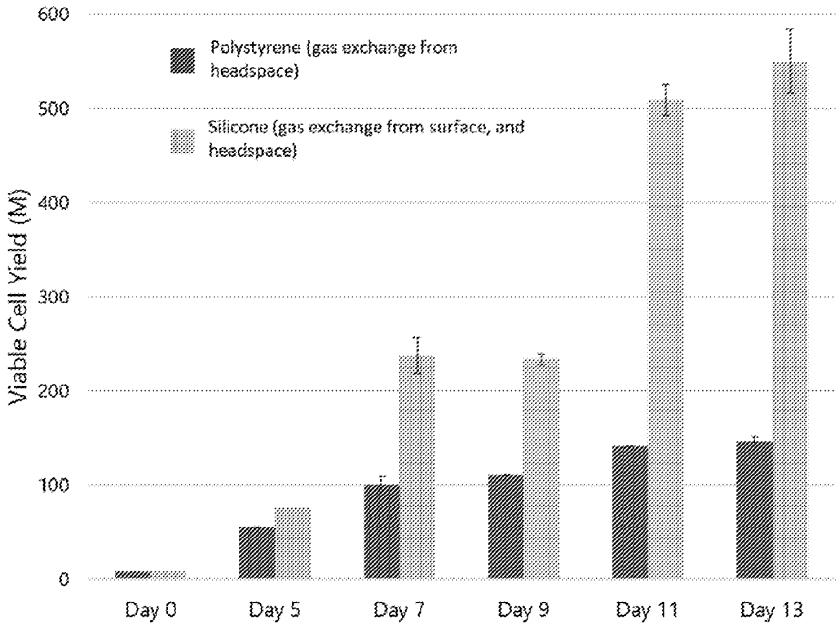
600
500
400
300
200
100
0
Viable Cell Yield (M)
Polystyrene (gas exchange from headspace)
Silicone (gas exchange from surface, and headspace)
Day 0
Day 5
Day 7
Day 9
Day 11
Day 13

FIG. 8