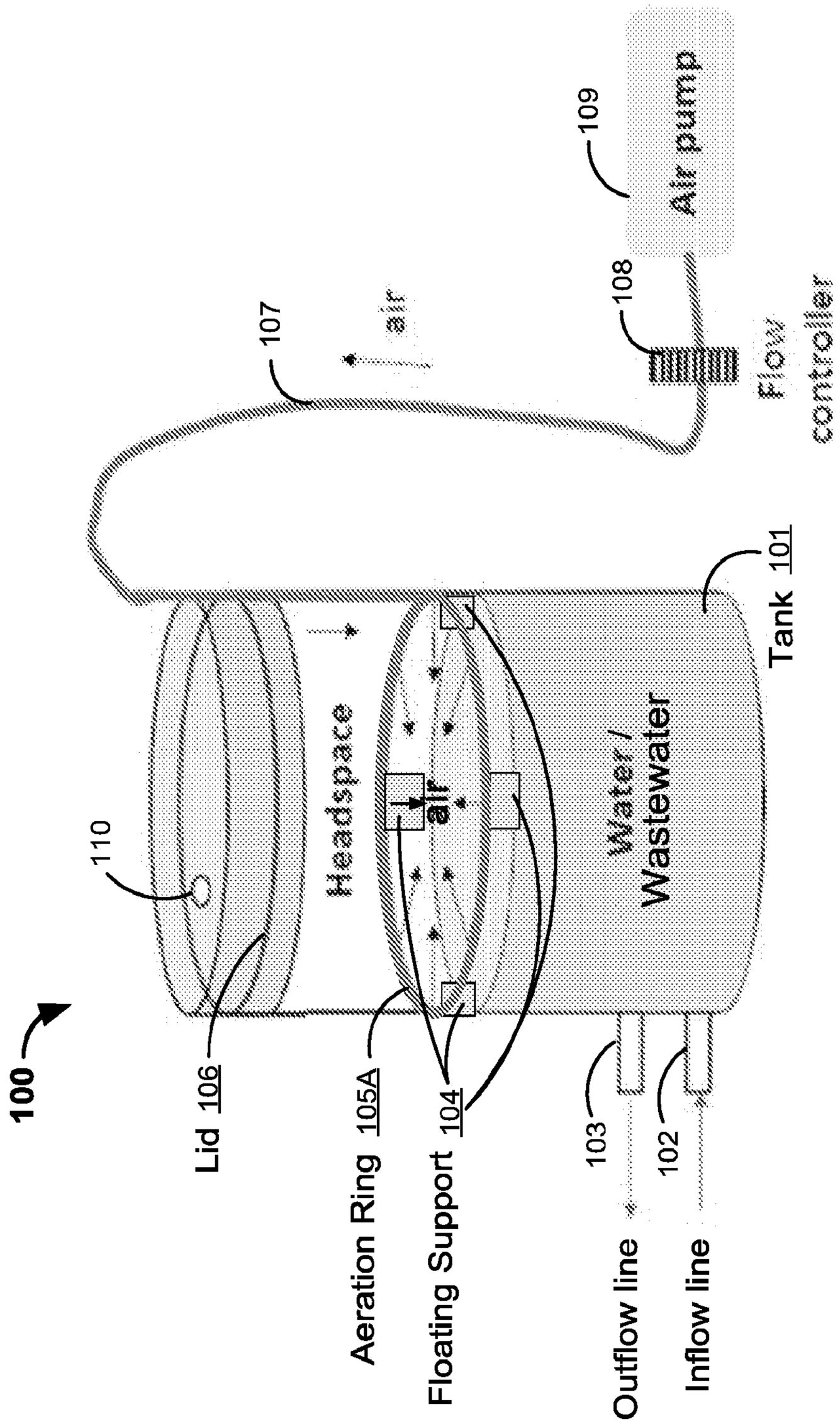

109
Air pump
108
Flow controller
107
air
Headspace
air
Water / Wastewater
Tank 101
110
100
Lid 106
Aeration Ring 105A
Floating Support 104
103
102
Outflow line
Inflow line

FIG. 1A

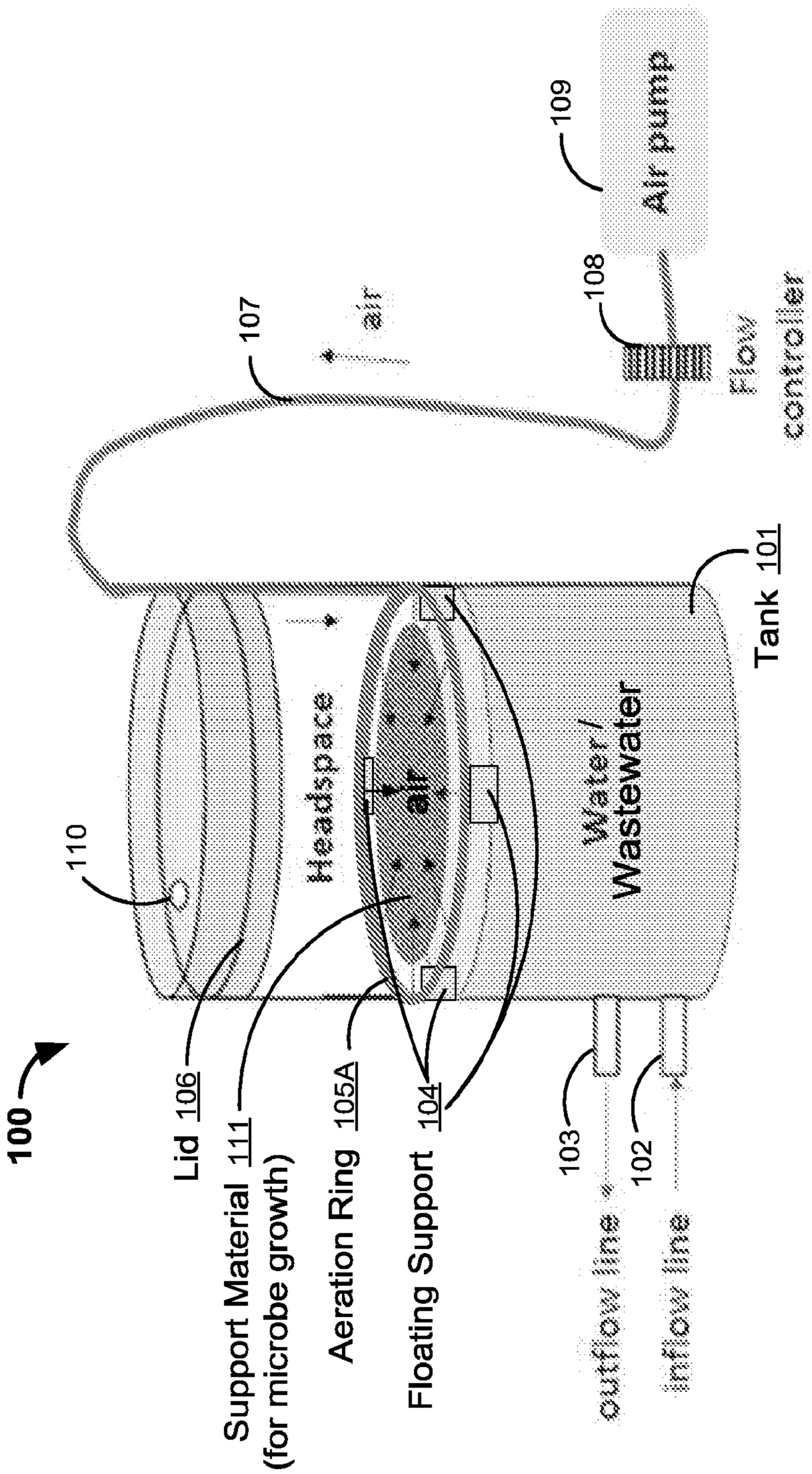

100
Lid 106
Support Material 111
(for microbe growth)
Aeration Ring 105A
Floating Support 104
110
Headspace
air
Water /
Wastewater
Tank 101
103
102
outflow line
inflow line
107
air
108
Flow
controller
109
Air pump

FIG. 1B

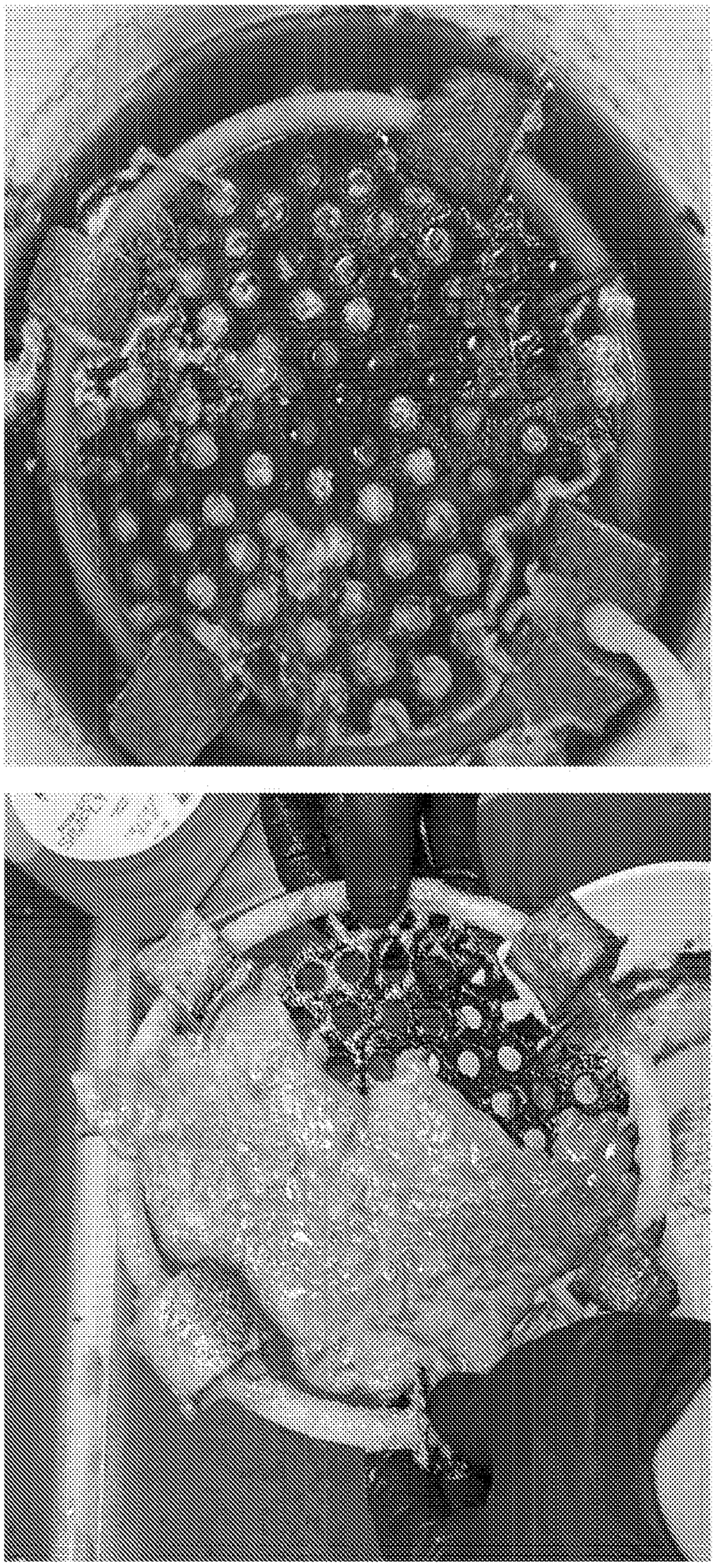


FIG. 1C

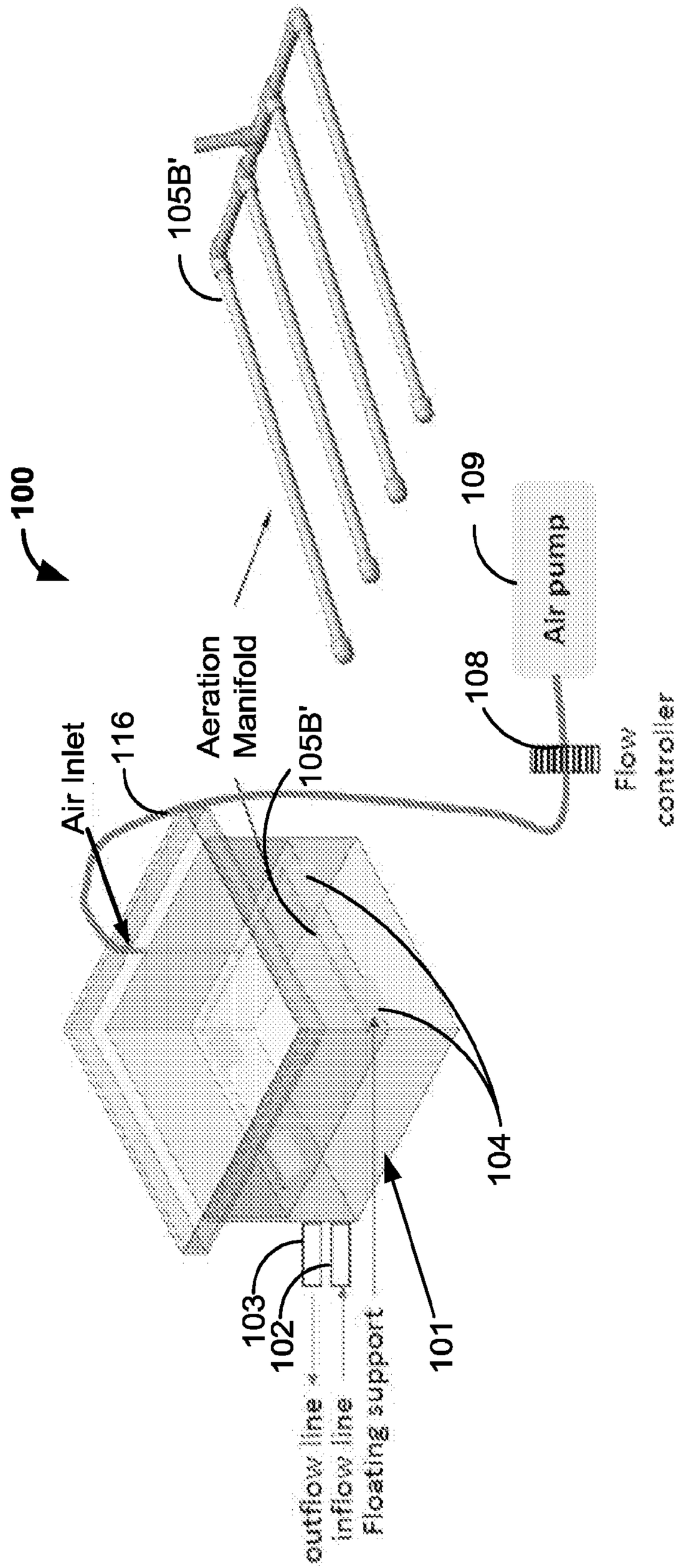

100
105B'
Air Inlet
116
Aeration Manifold
105B'
108
109
Air pump
Flow controller
104
103
102
101
Floating support
Inflow line
Outflow line

FIG. 1D

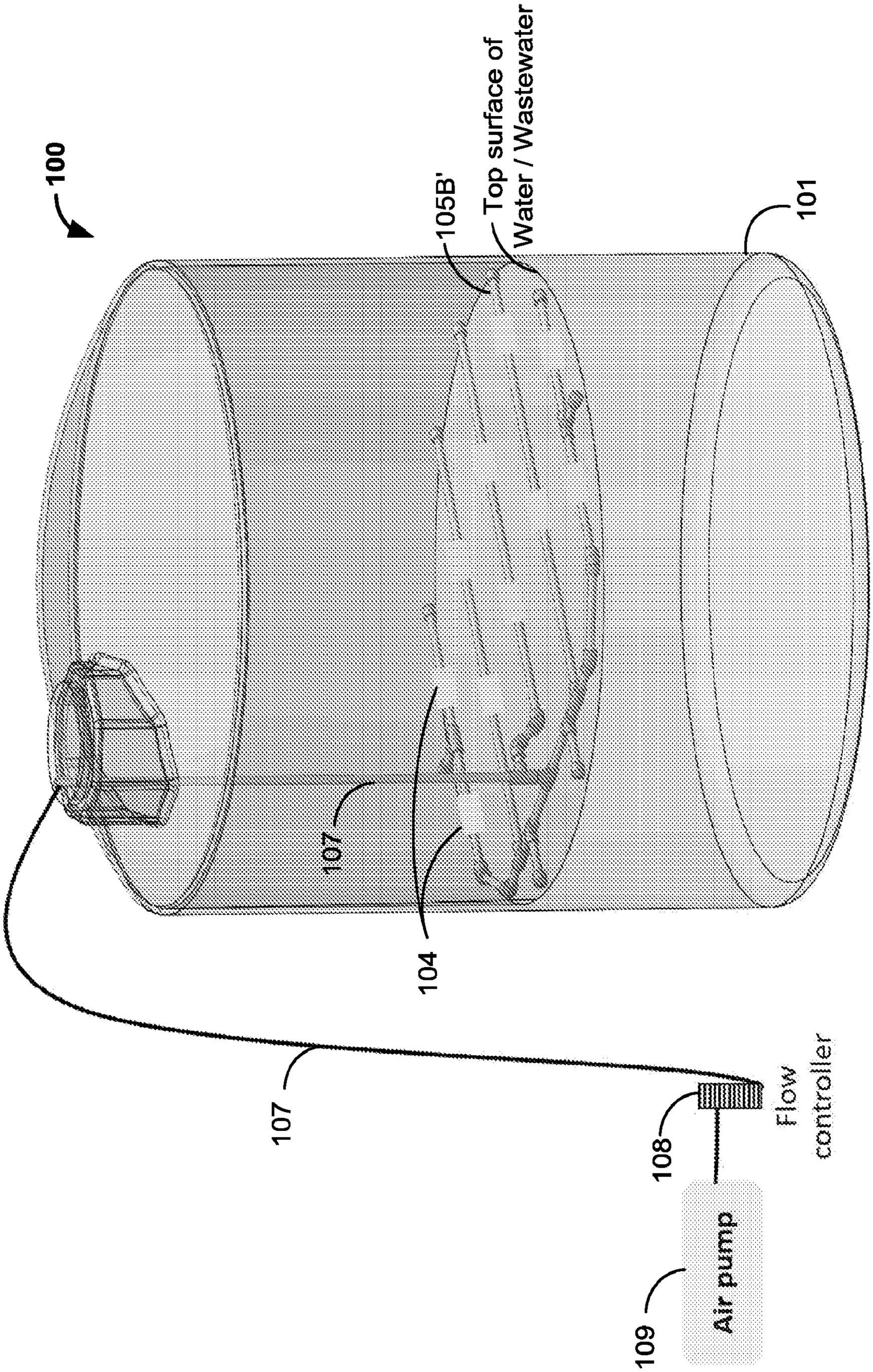

100
105B'
Top surface of
Water / Wastewater
101
107
104
107
107
108
Flow
controller
109
Air pump

FIG. 1E



FIG. 2A

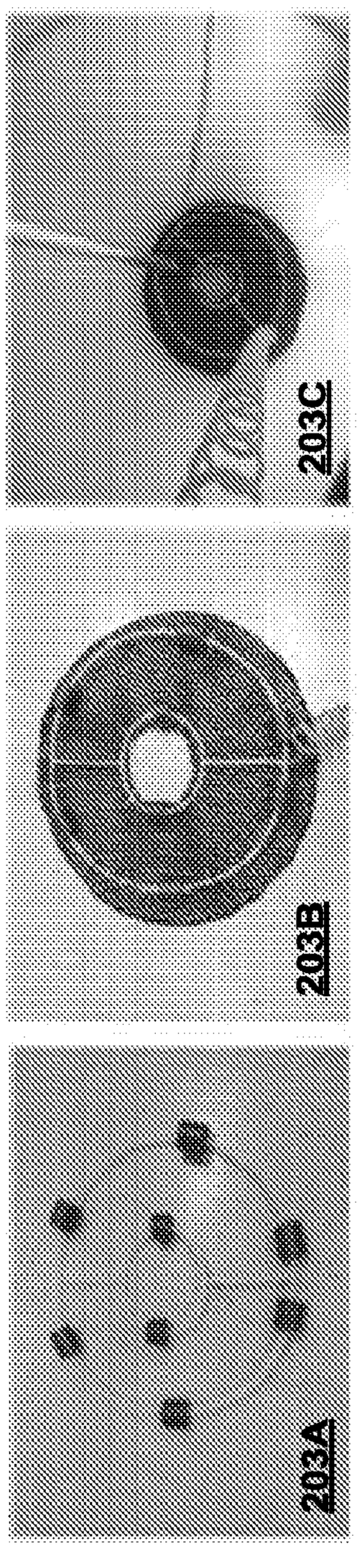


FIG. 2B

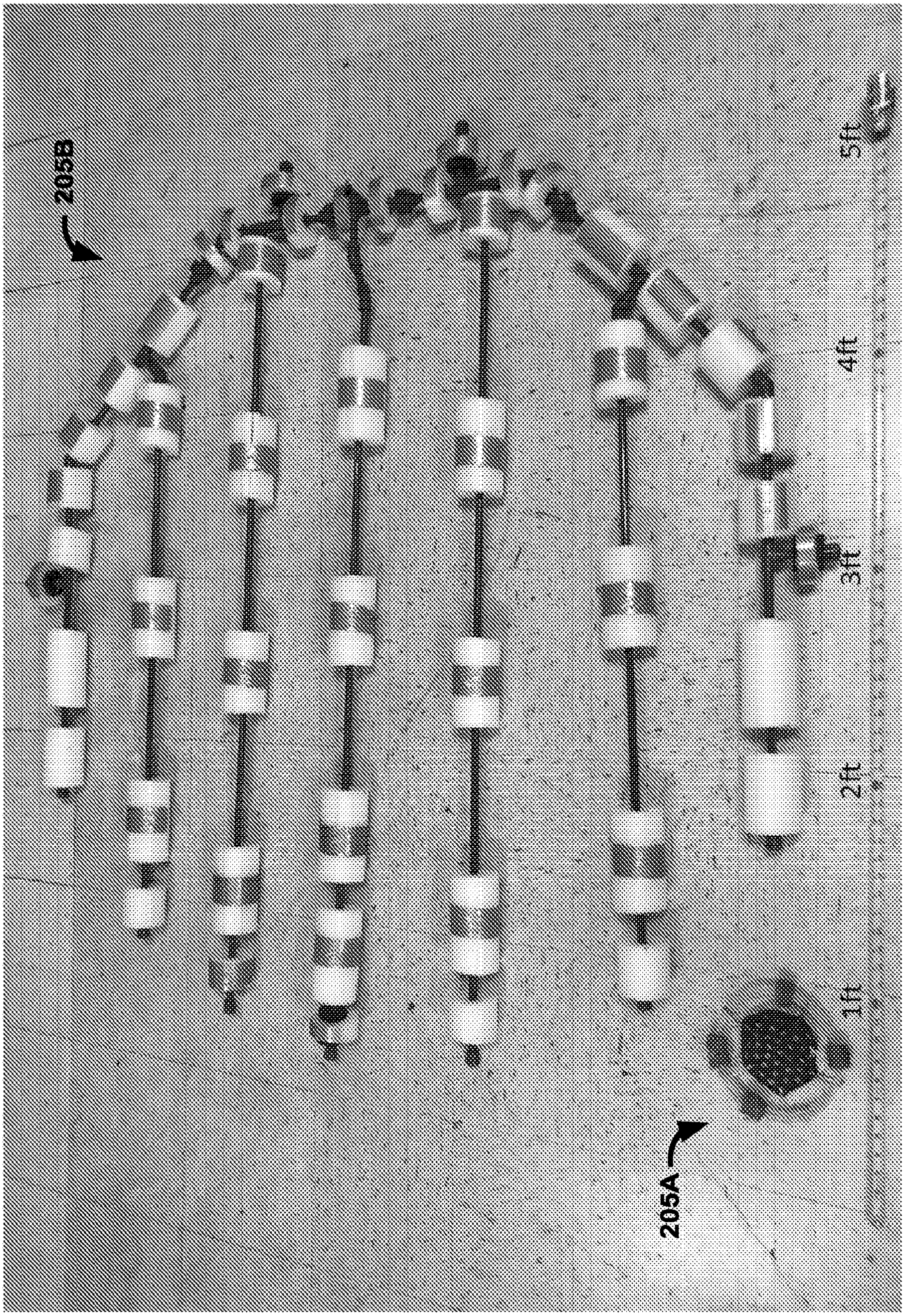


FIG. 2C

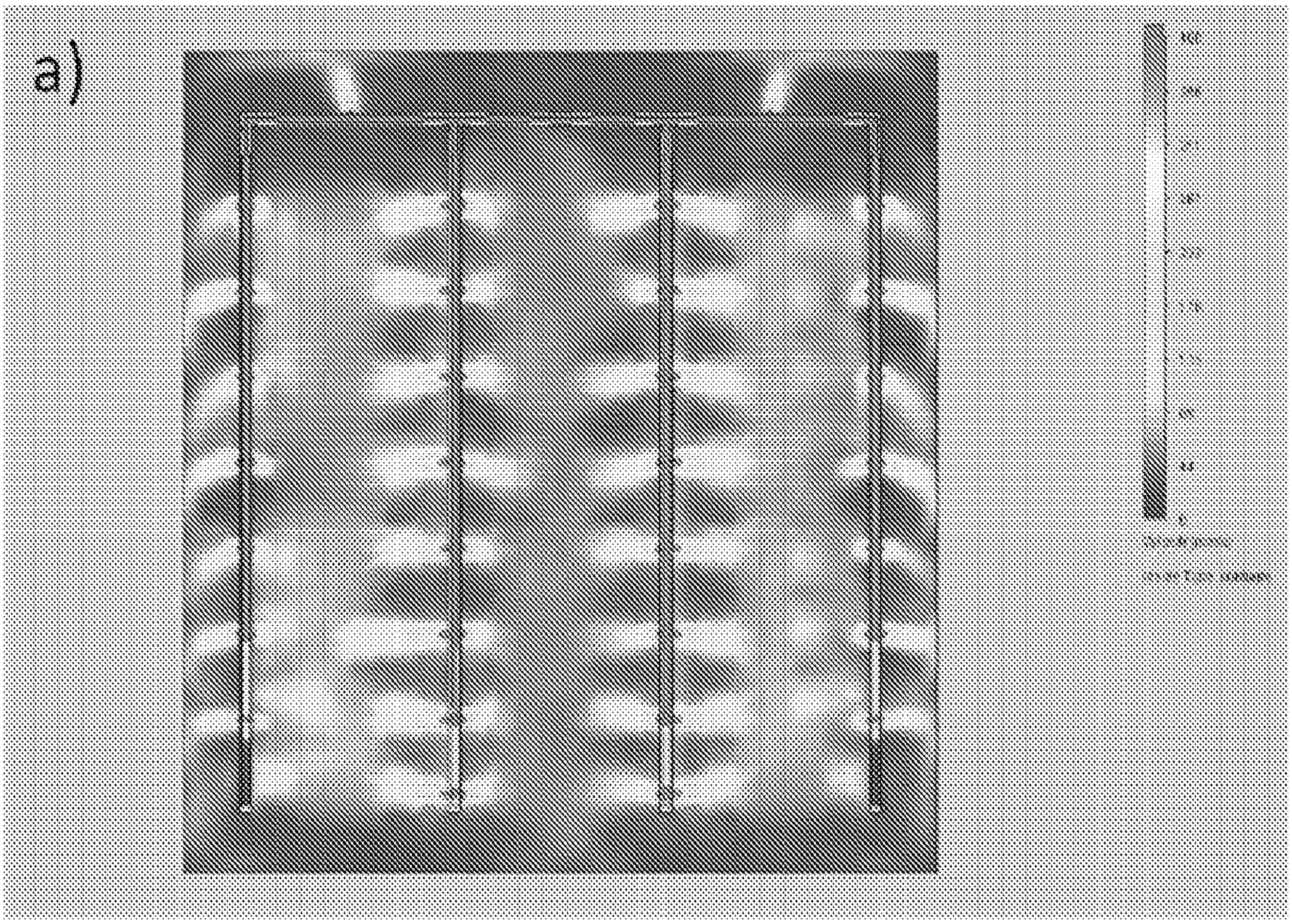


FIG. 3A

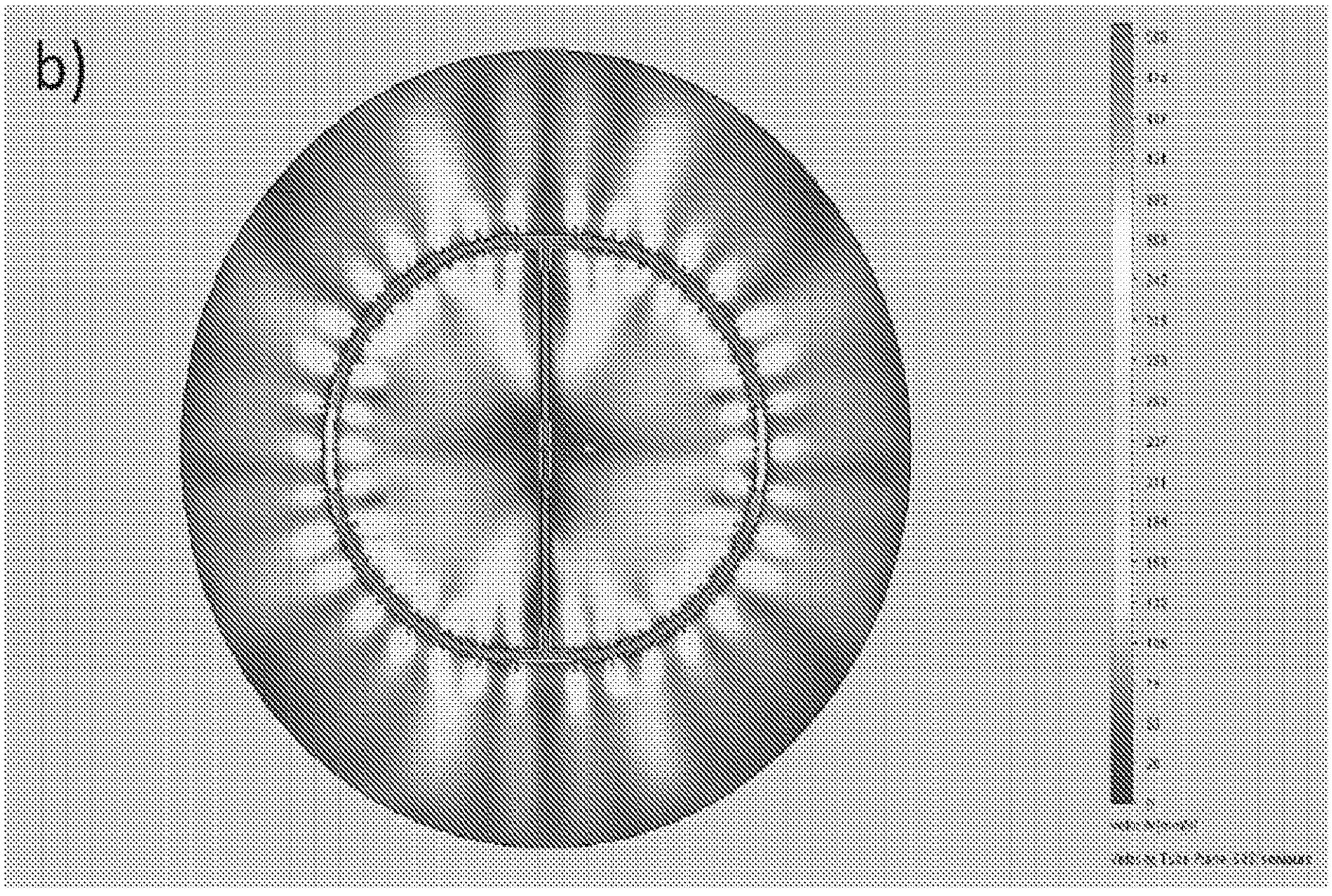


FIG. 3B

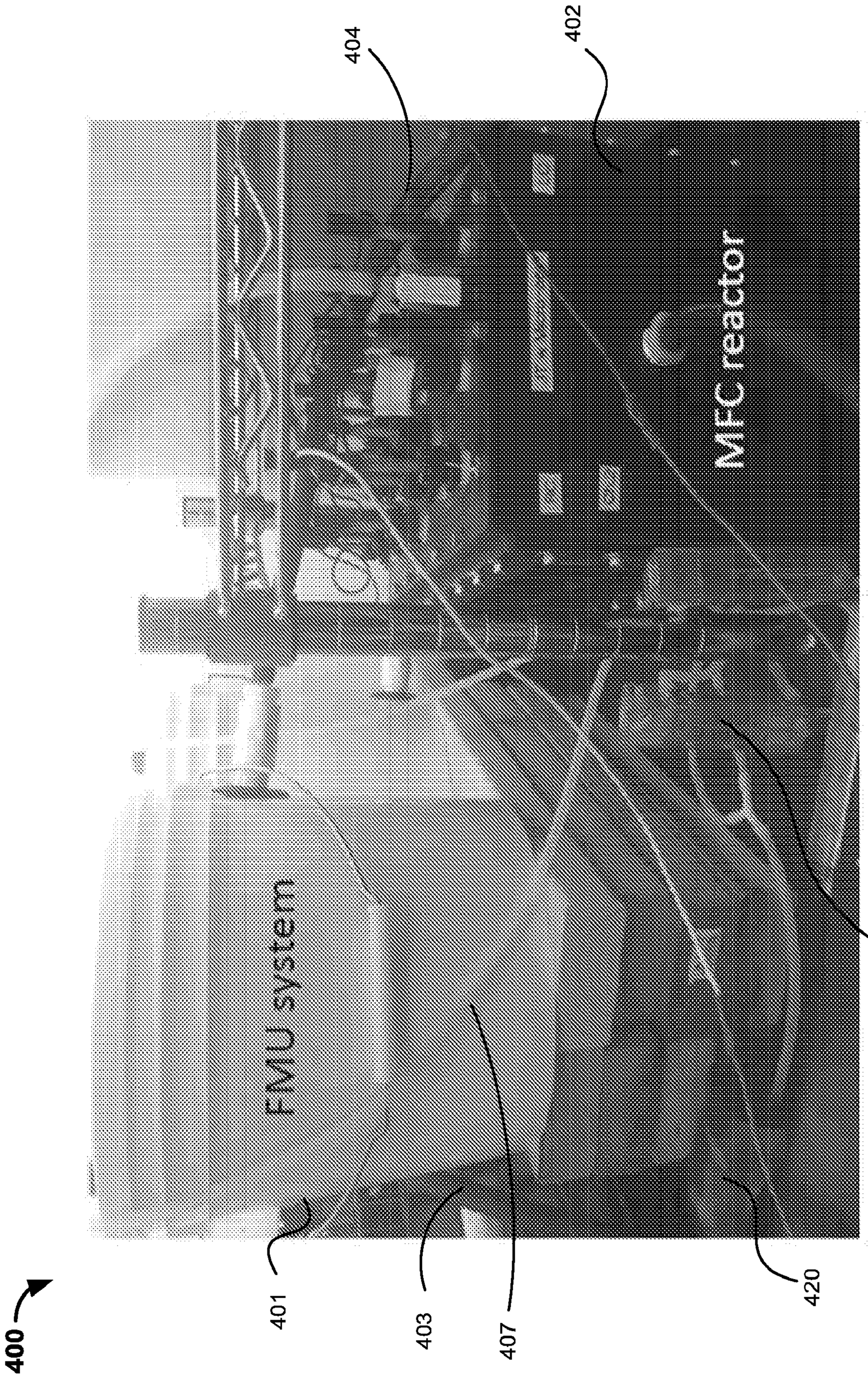


FIG. 4

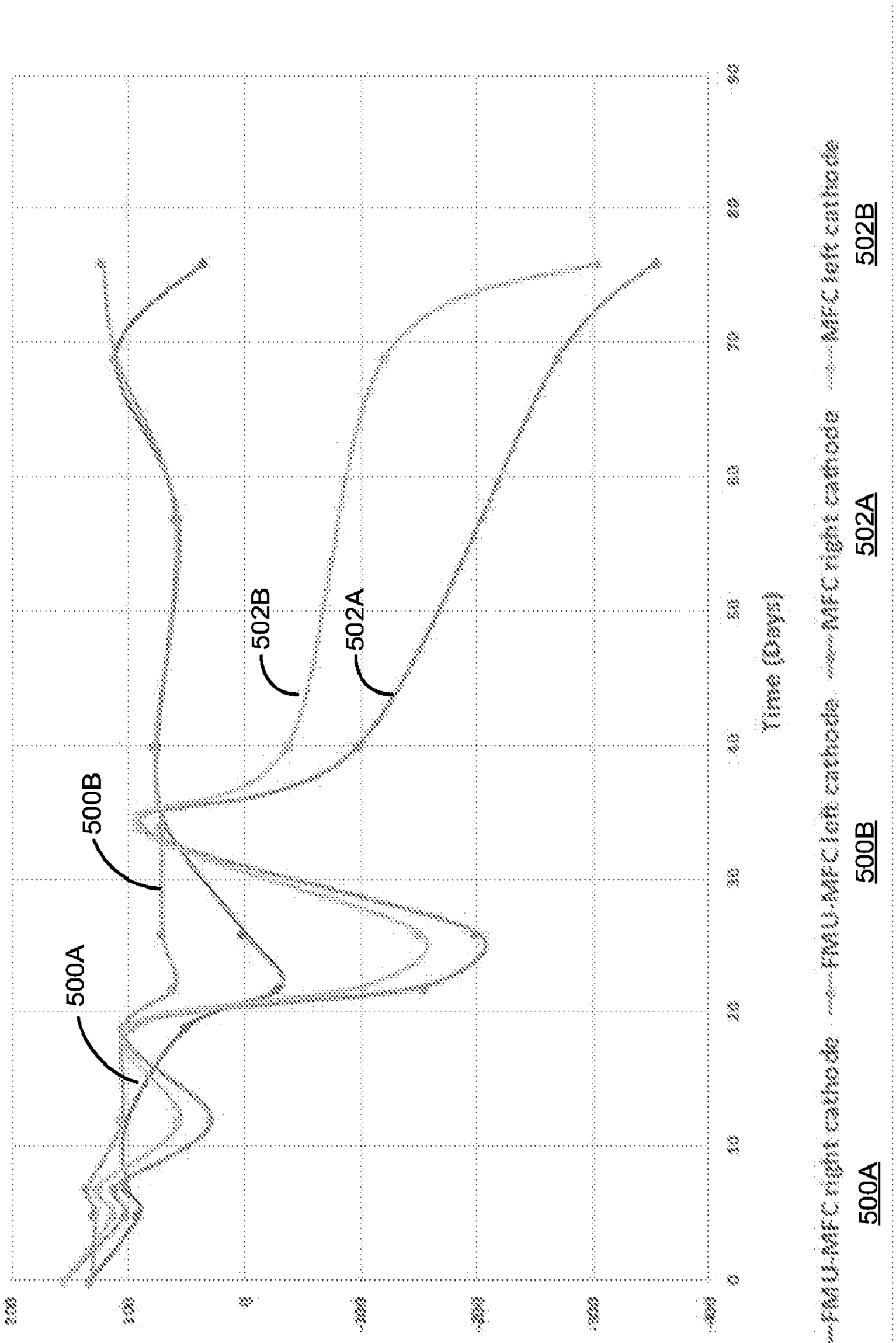

Cathodic potential (mV)
Time (days)
500A
500B
502A
502B
FMU-MFC right cathode
FMU-MFC left cathode
MFC right cathode
MFC left cathode

FIG. 5

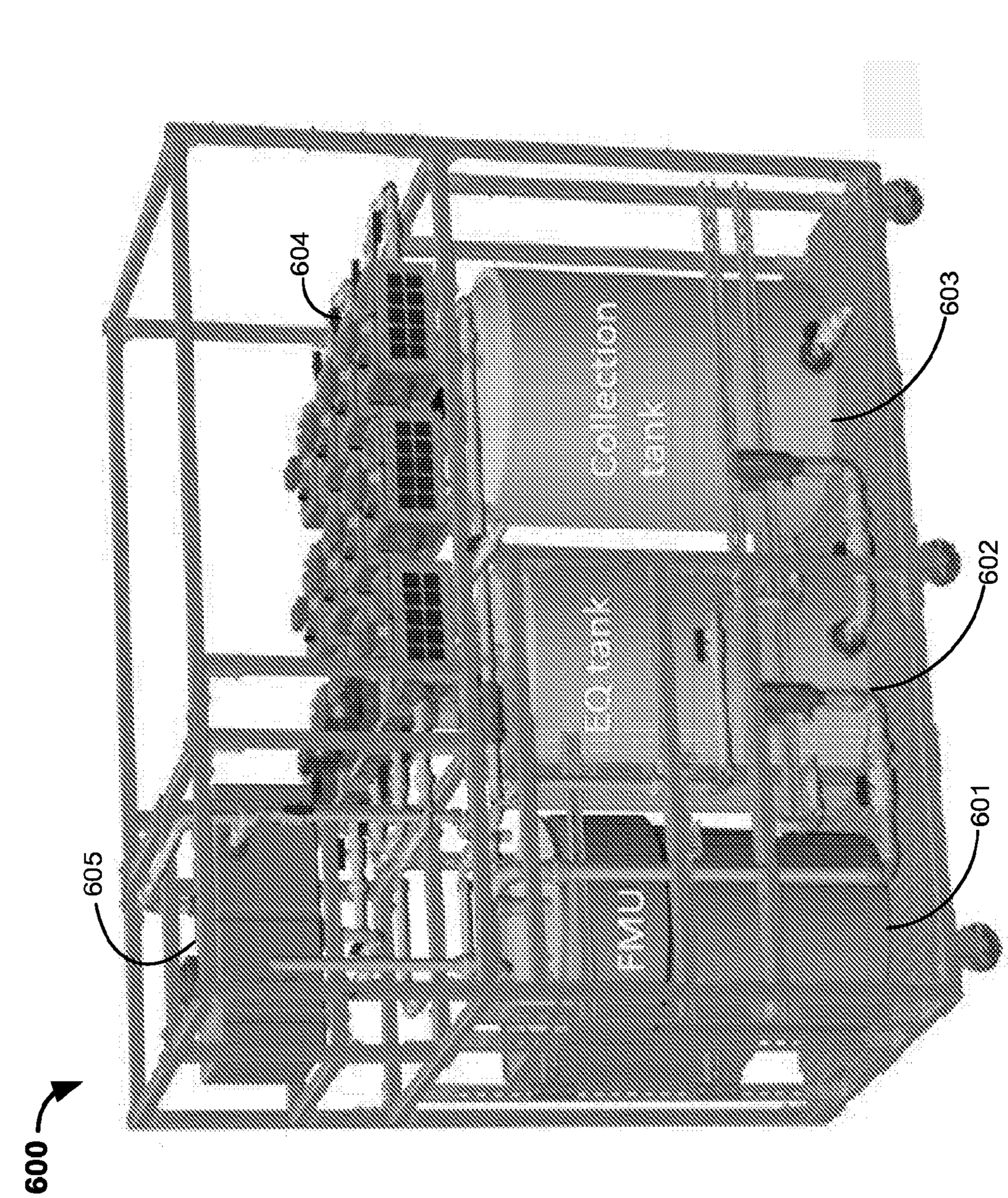


FIG. 6

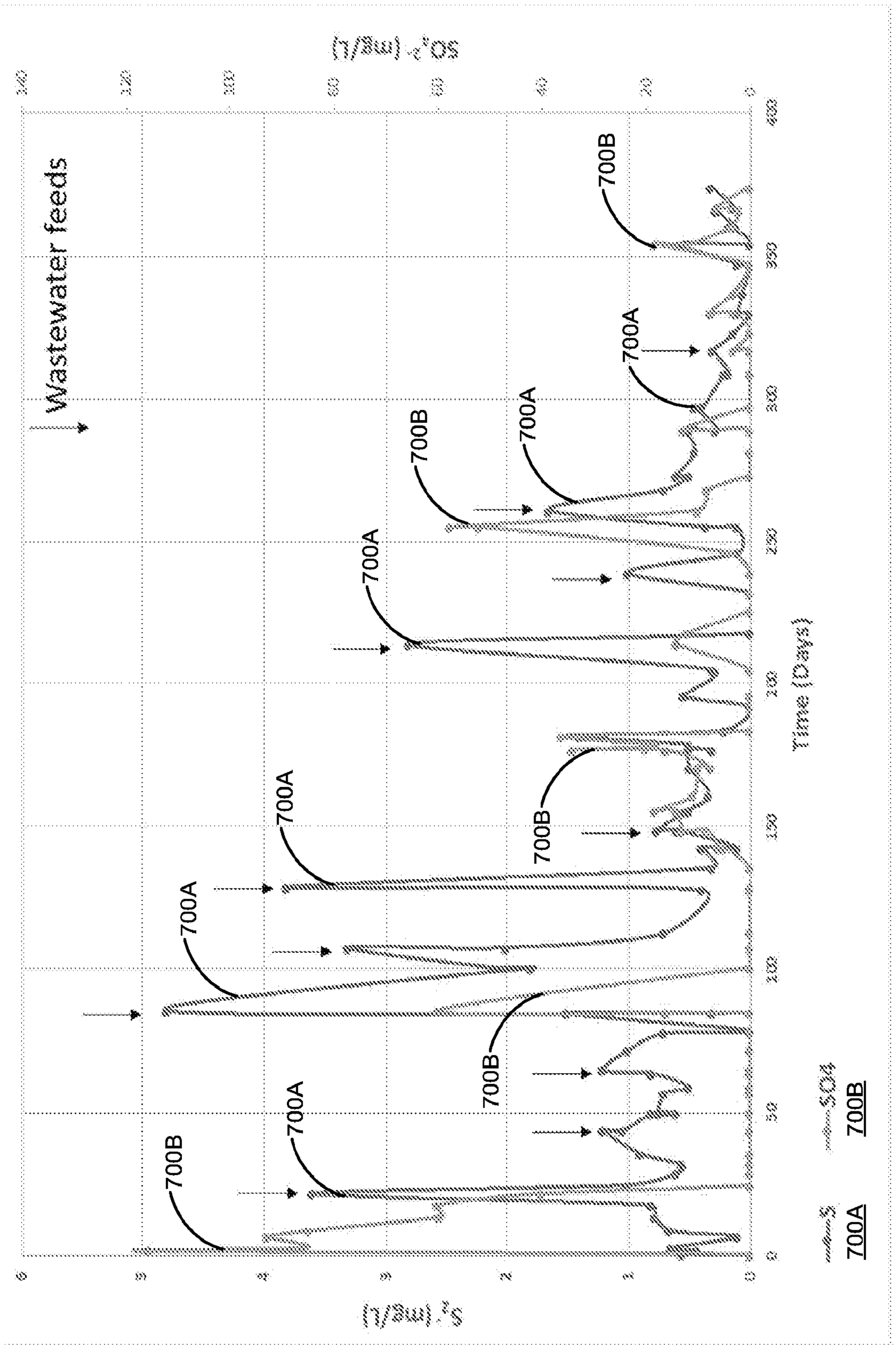

Wastewater feeds
700A
700B
Time (Days)
0
50
100
150
200
250
300
350
400

FIG. 7

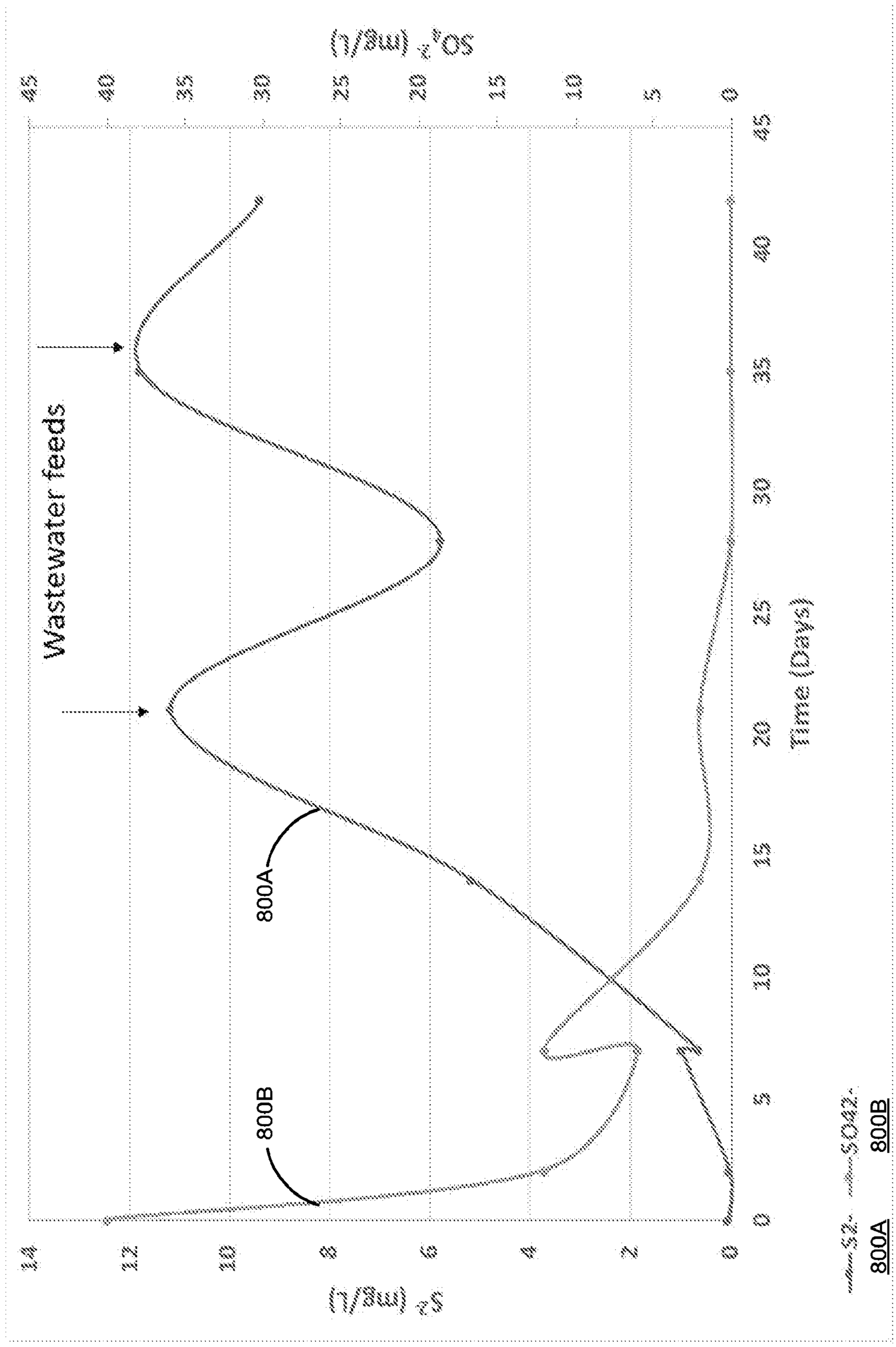

S^{2-} (mg/L)
45
40
35
30
25
20
15
10
5
0
Wastewater feeds
800A
800B
Time (Days)
0
5
10
15
20
25
30
35
40
SO_4^{2-}
800A
800B

FIG. 8A

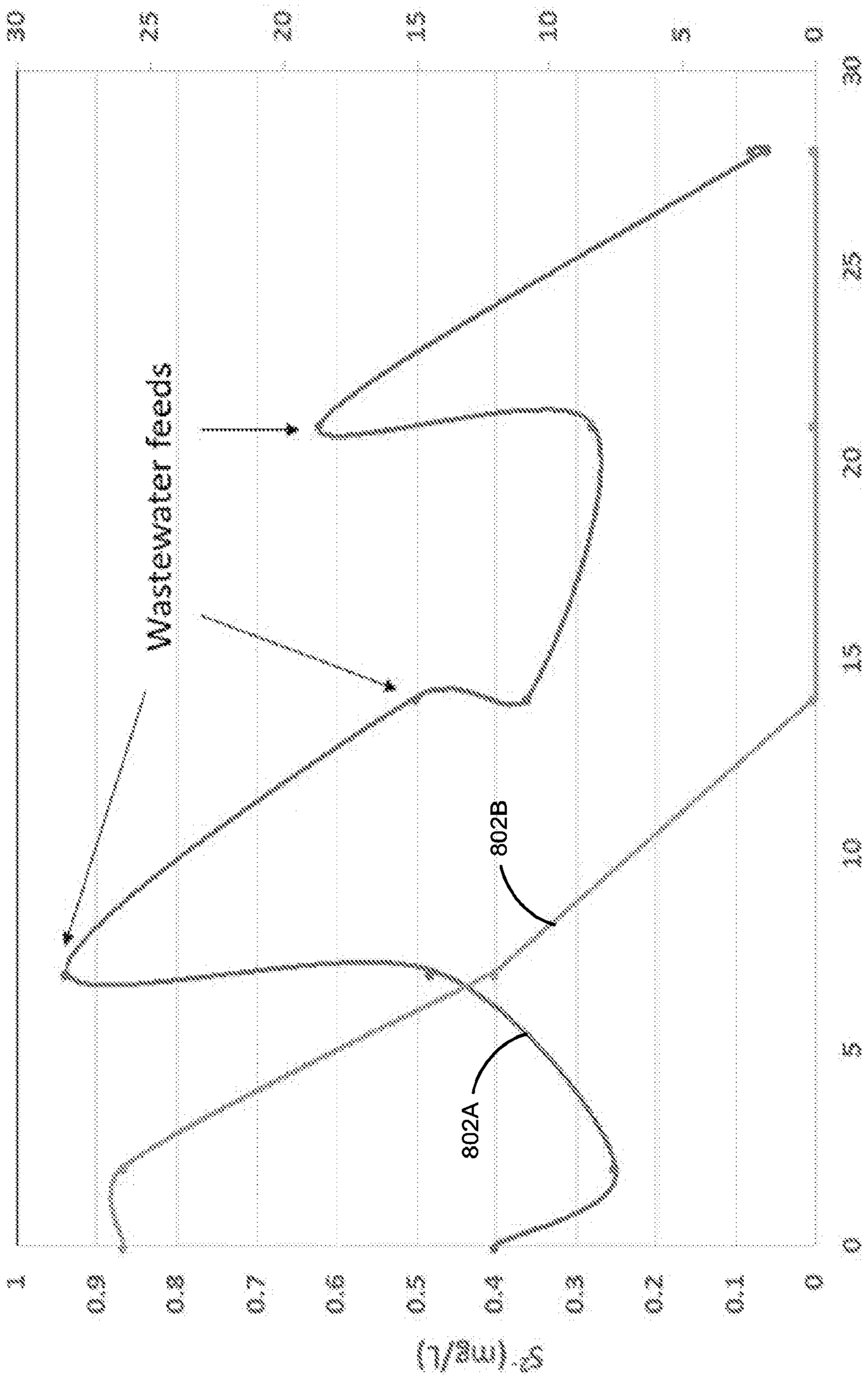

SO_4^{2-} (mg/L)
Wastewater feeds
802B
802A
Time (Days)
SO_4^{2-}
802A
802B
S^{2-} (mg/L)

FIG. 8B