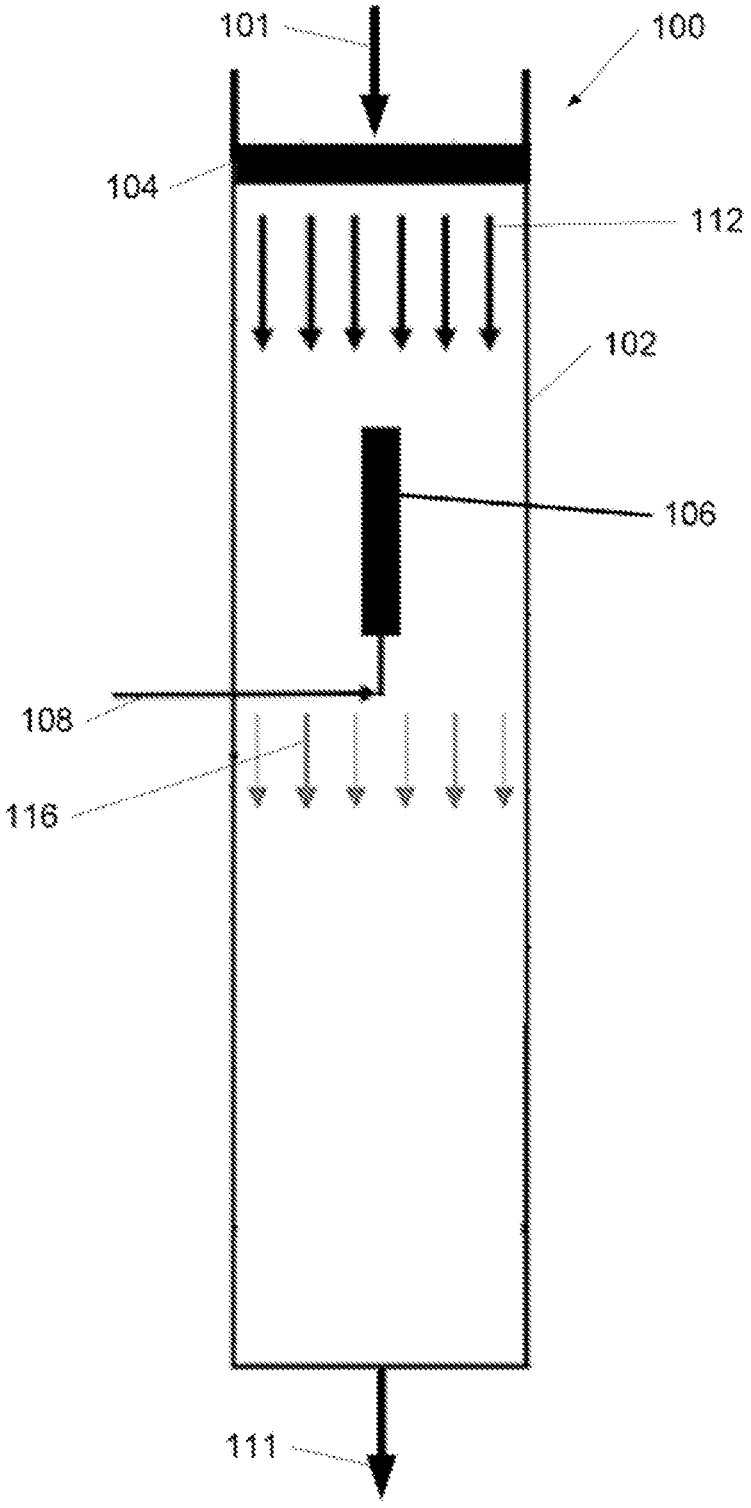


FIG. 1

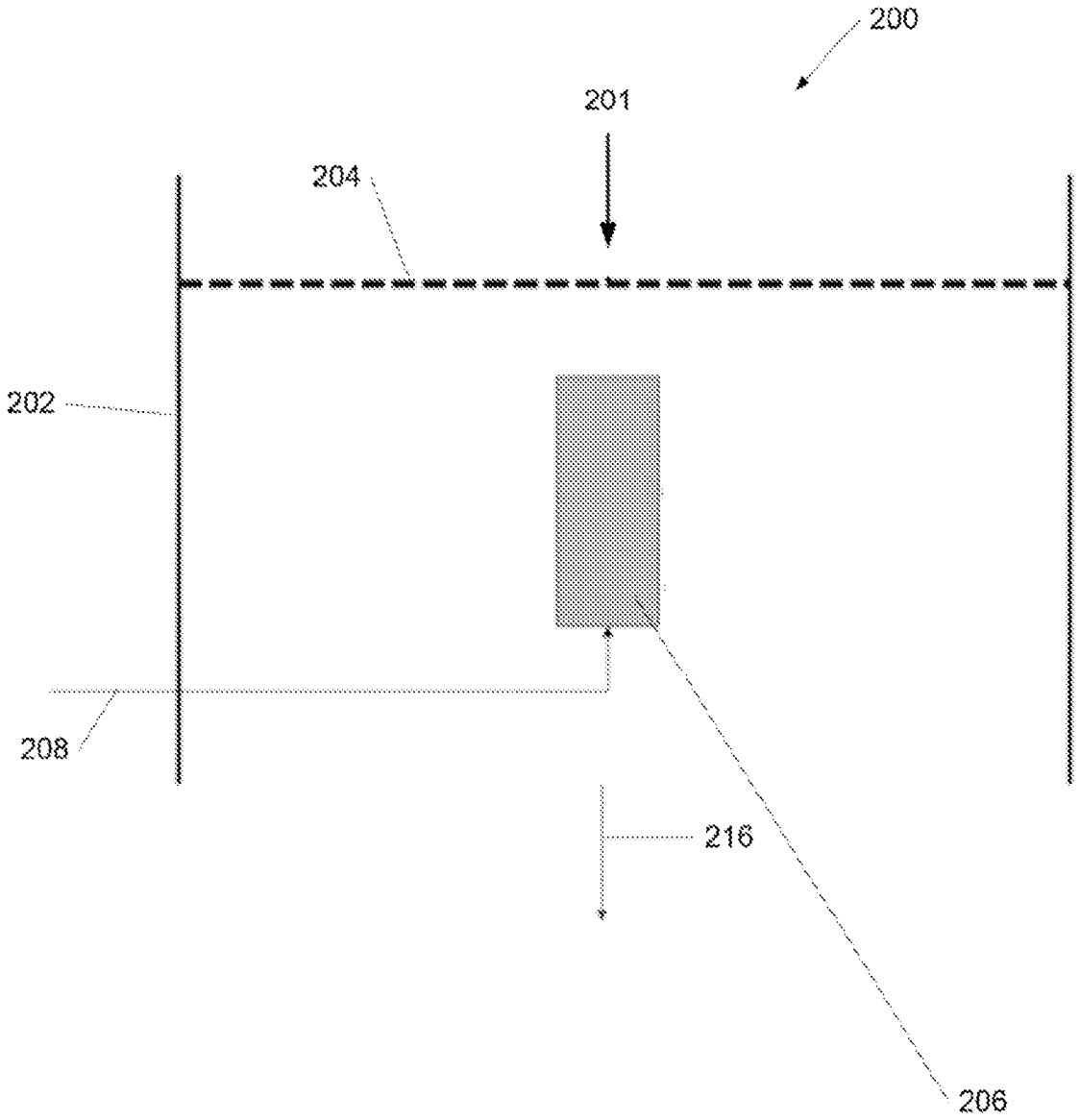


FIG. 2

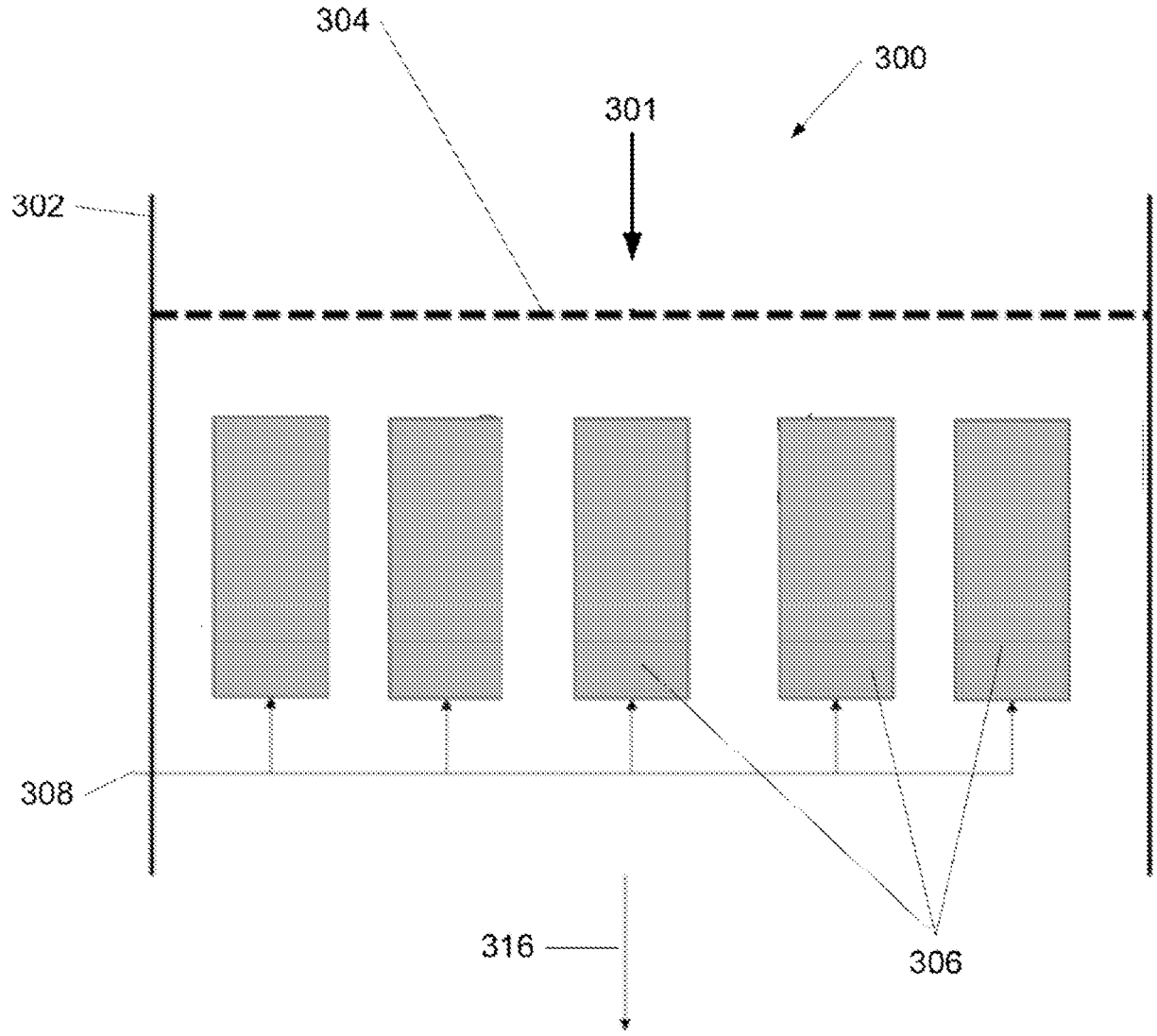


FIG. 3

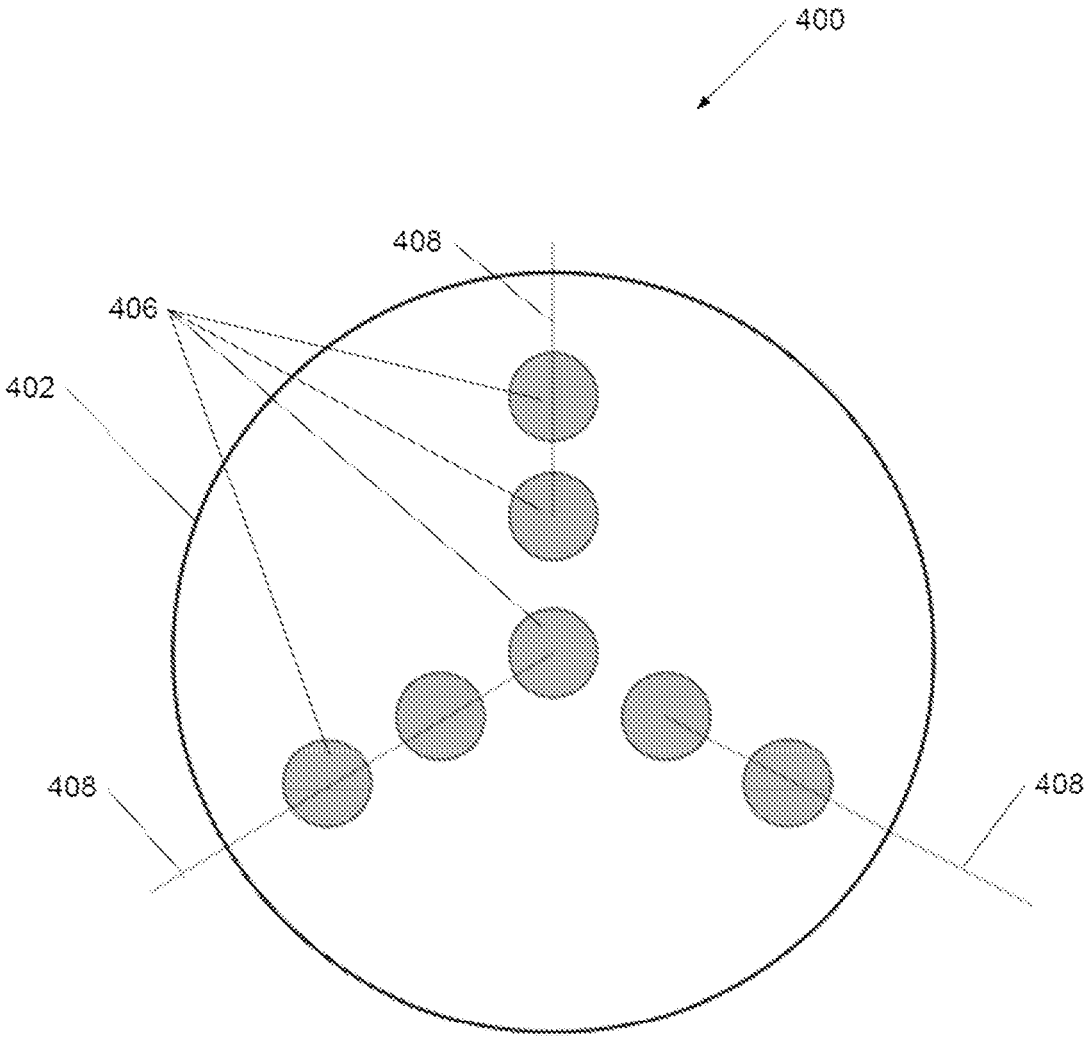


FIG. 4

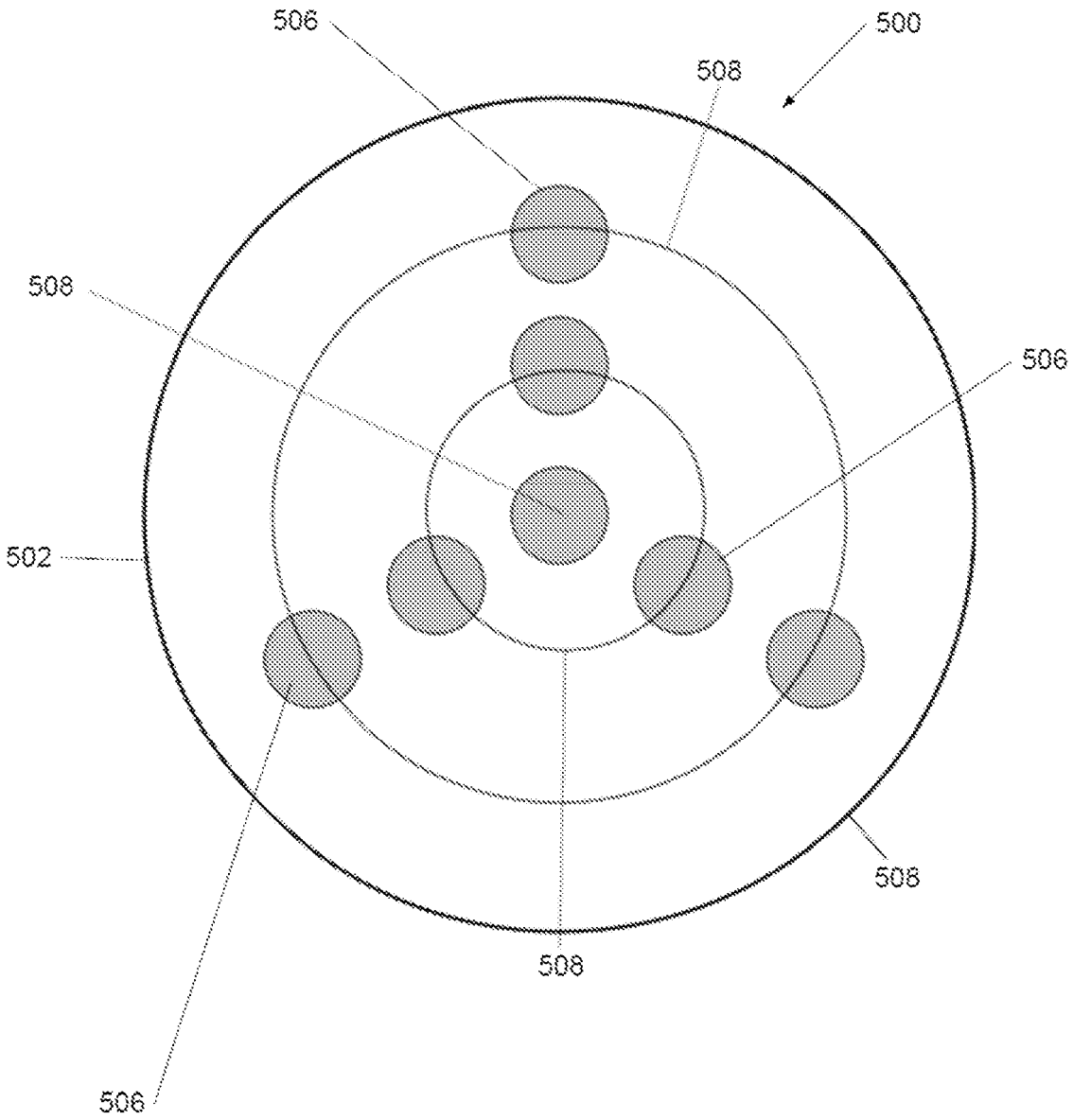


FIG. 5

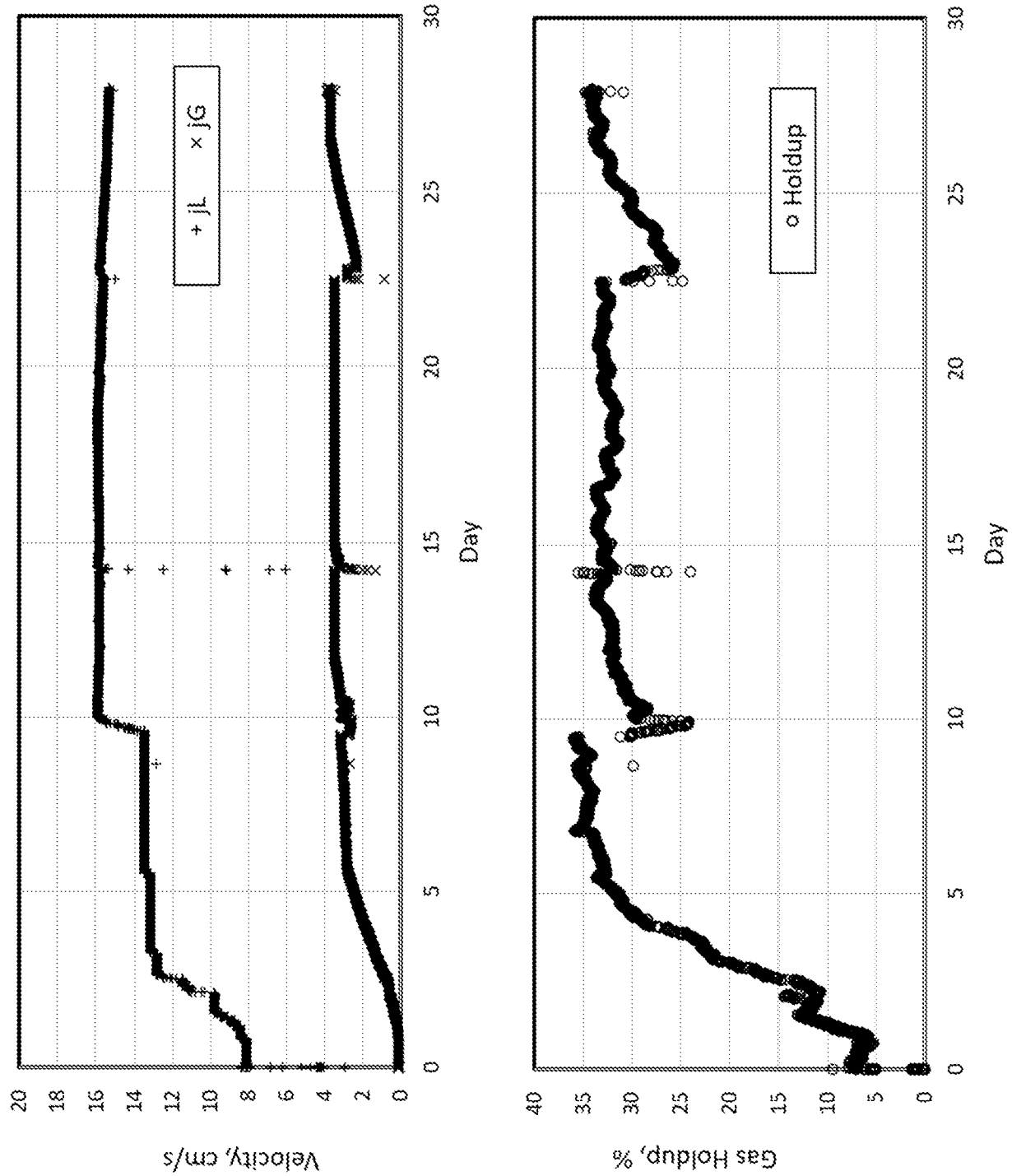

Velocity, cm/s
20
18
16
14
12
10
8
6
4
2
0
0
5
10
15
20
25
30
Day
+ jL
× jG
Gas Holdup, %
40
35
30
25
20
15
10
5
0
o Holdup

FIG. 6a

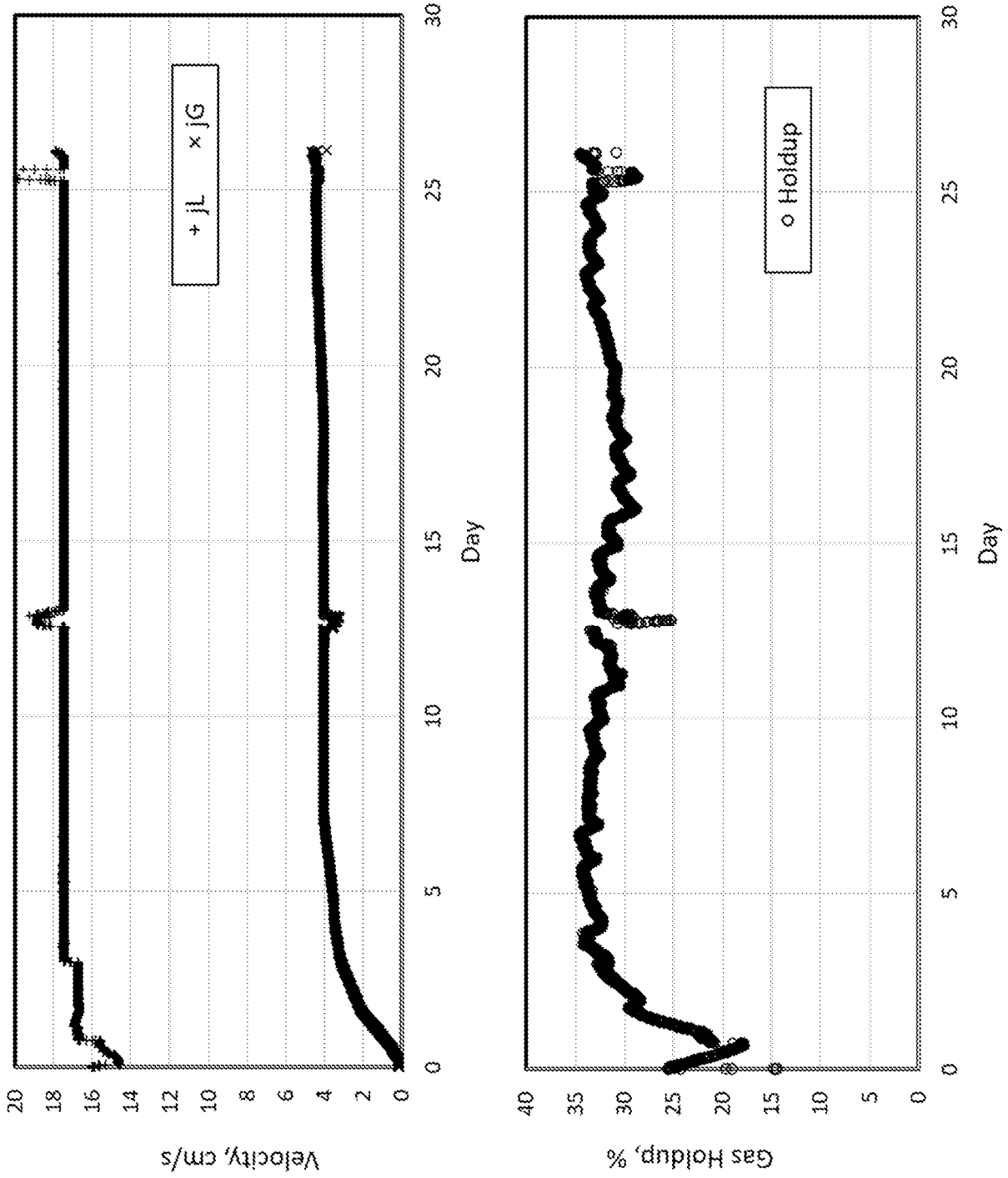


FIG. 6b

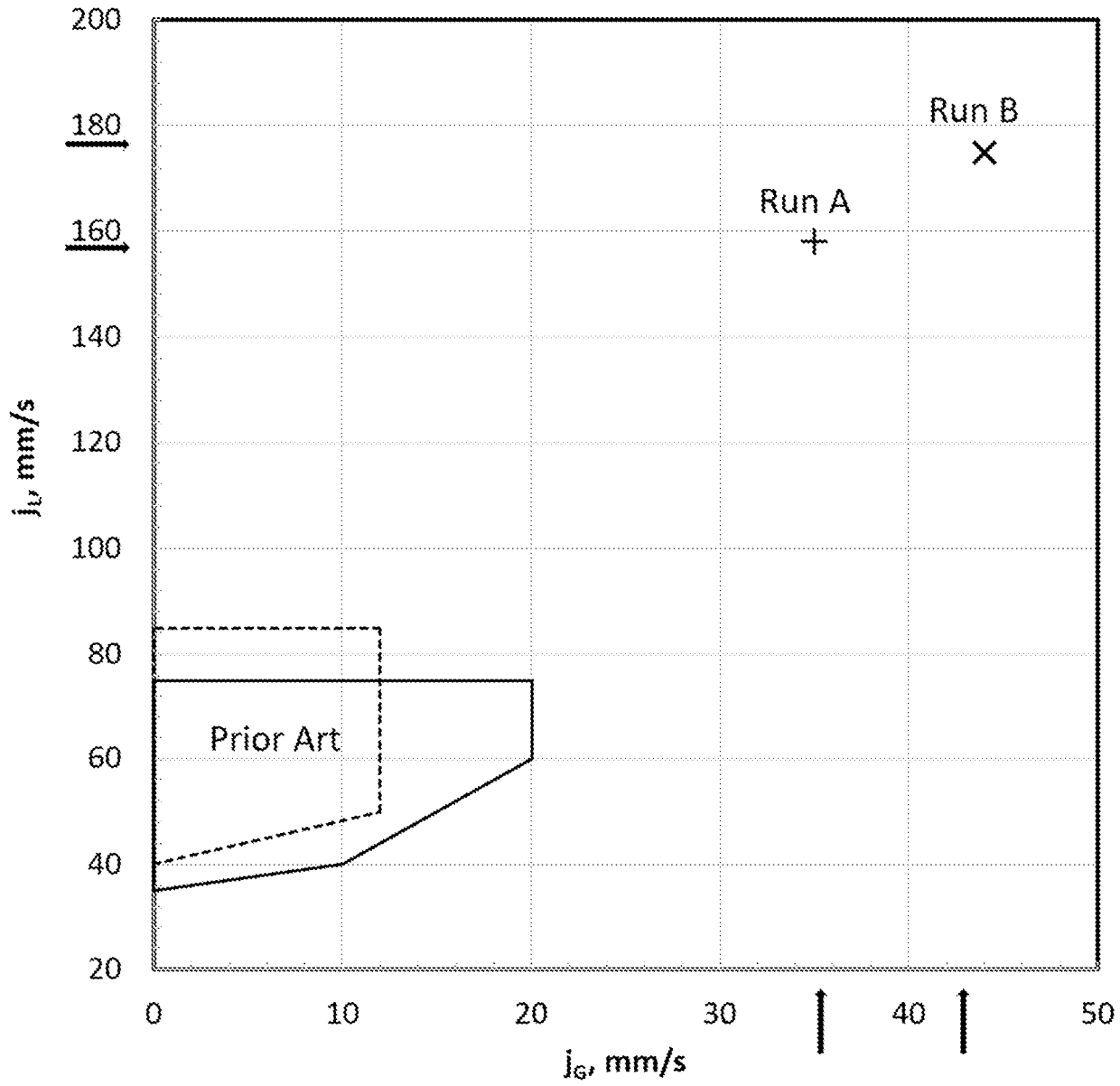

200
180
160
140
120
100
80
60
40
20
j_L, mm/s
Run B
Run A
Prior Art
0
10
20
30
40
50
j_G, mm/s

FIG. 7