FIG. 1

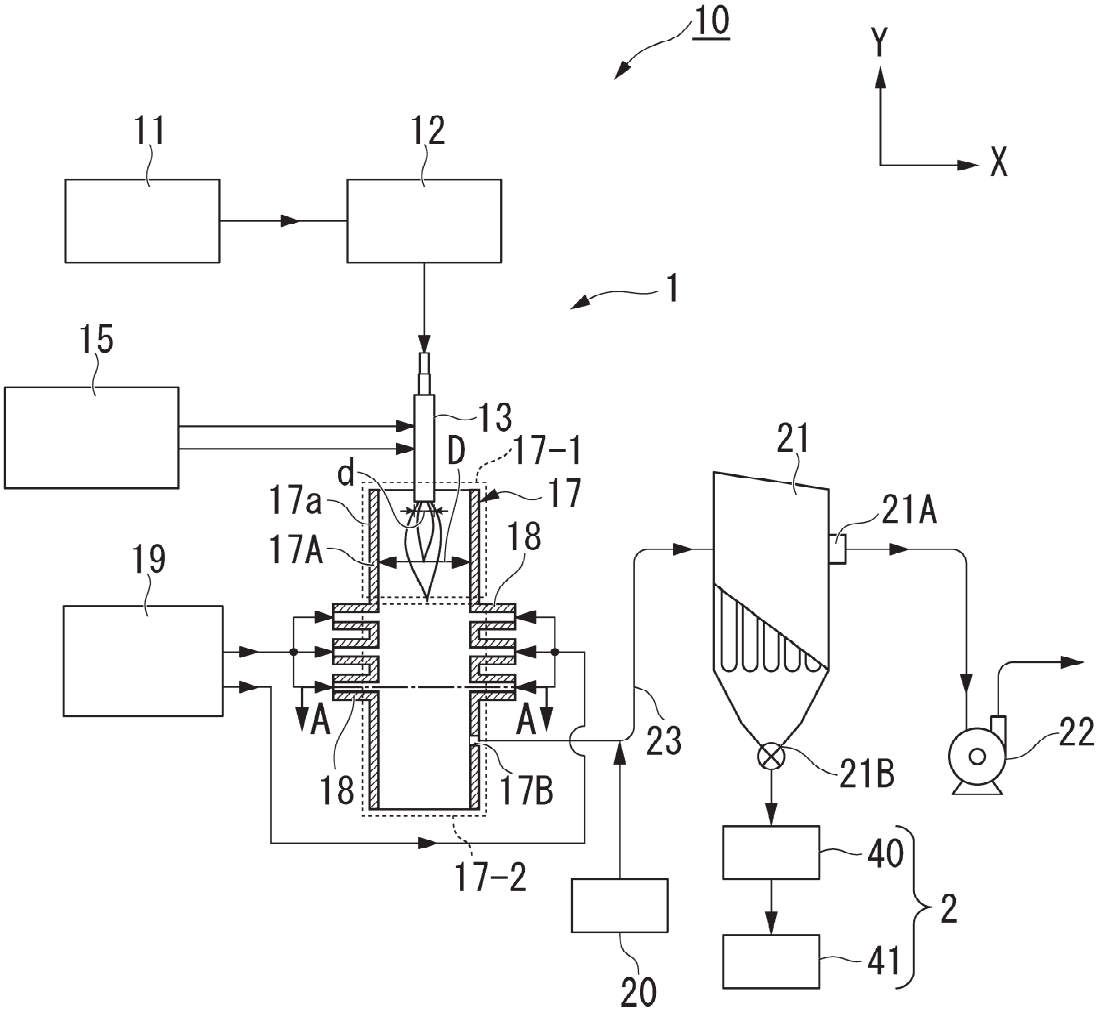

10
Y
X
11
12
1
15
13
D
17-1
d
17a
17
17A
18
19
21
21A
A
A
18
17B
23
21B
22
40
2
41
17-2
20

FIG. 2

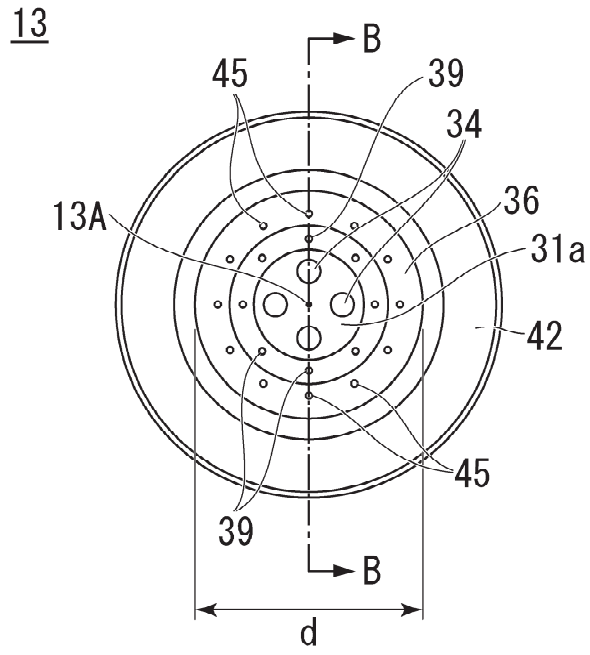

13
B
45
39
34
36
13A
31a
42
45
39
B
d

FIG. 3

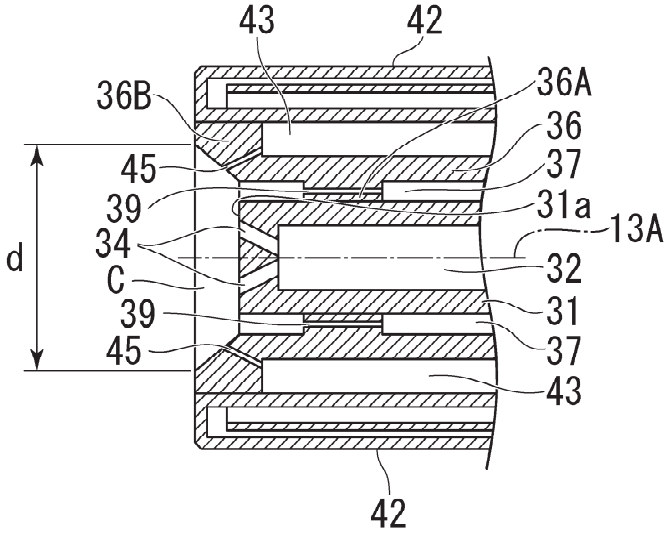

43
42
36B
36A
36
45
37
39
31a
13A
d
34
32
C
39
31
45
37
43
42

FIG. 4

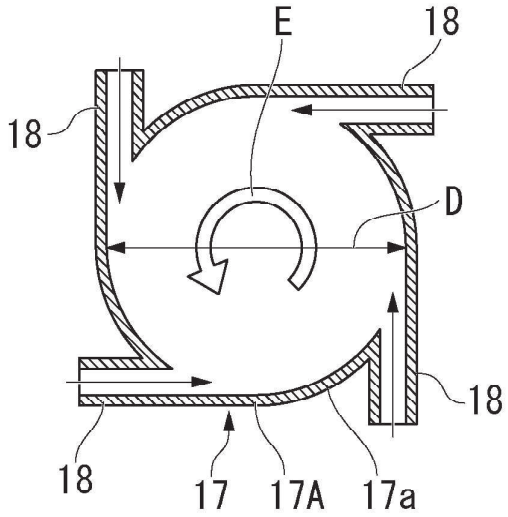


FIG. 5

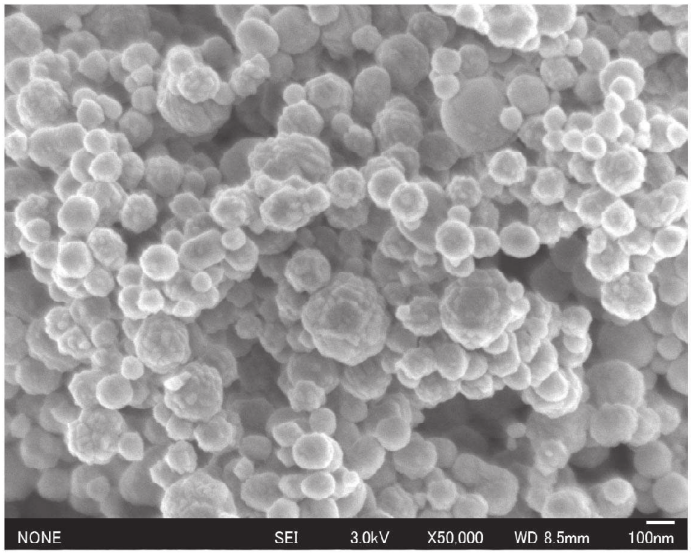


FIG. 6

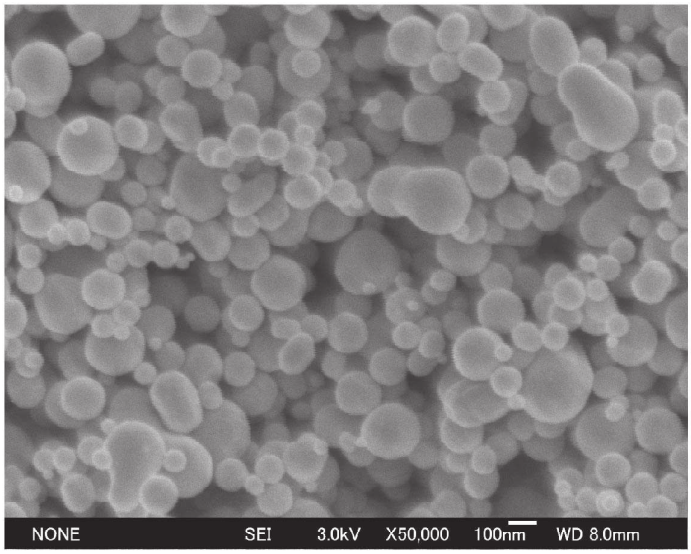
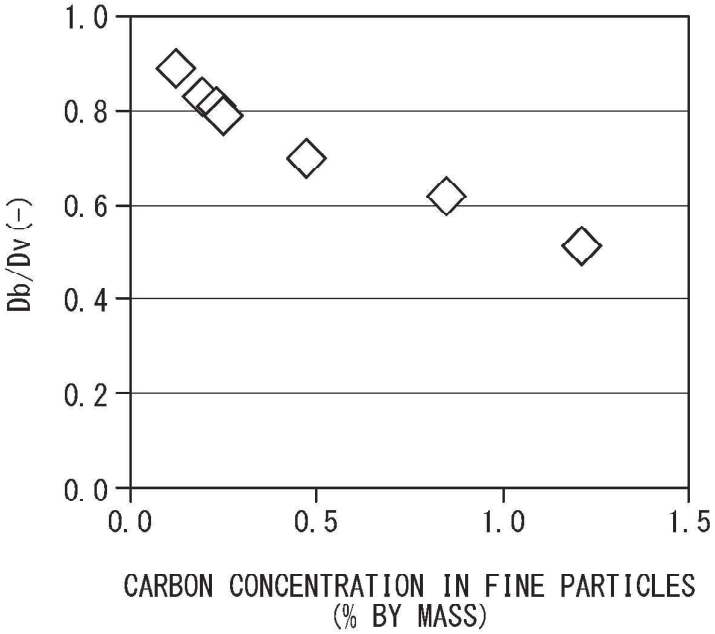

NONE
SEI
3.0kV
X50,000
100nm
WD 8.0mm

FIG. 7


1.0
0.8
0.6
0.4
0.2
0.0
Db/Dv (-)
0.0
0.5
1.0
1.5
CARBON CONCENTRATION IN FINE PARTICLES
(% BY MASS)