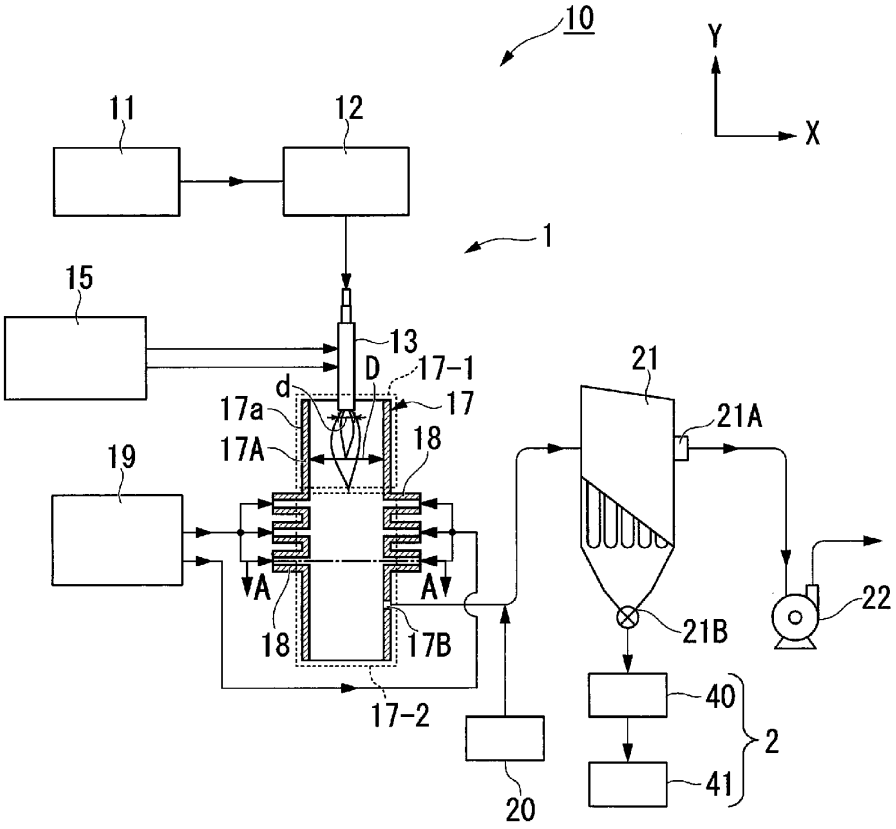
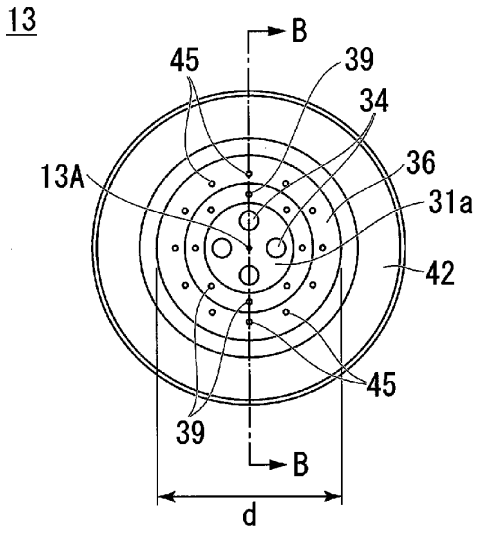
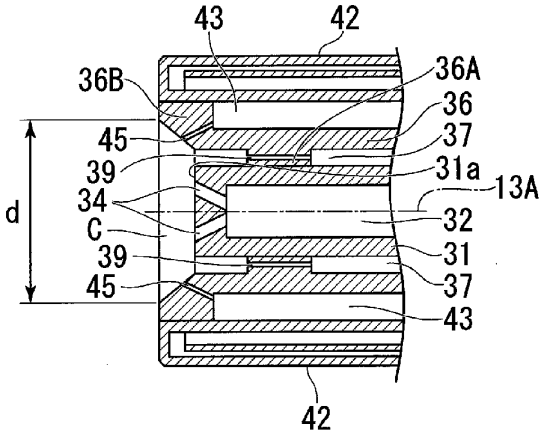
[図1]


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

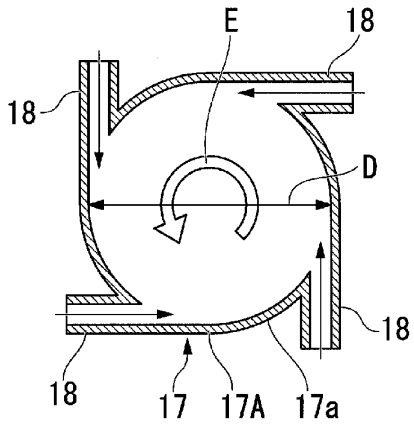
[図2]


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

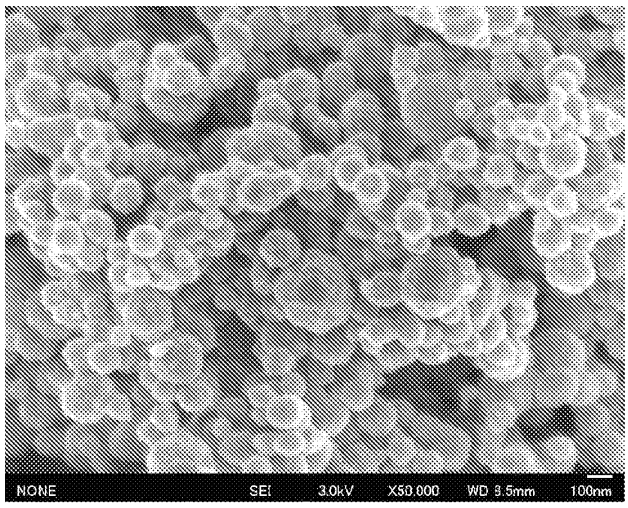
[図3]


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

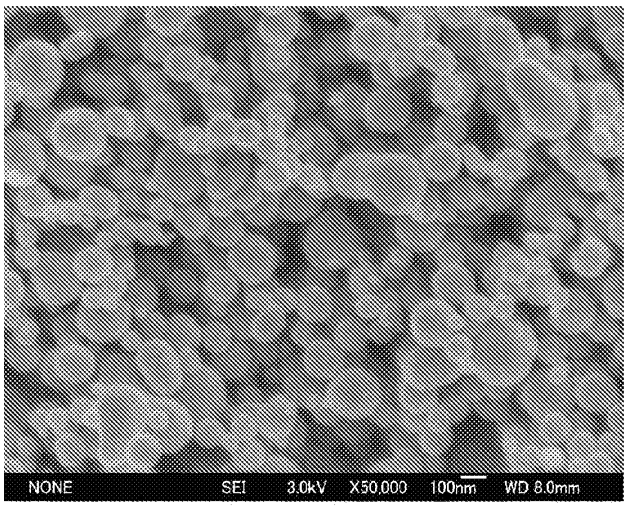
[図4]



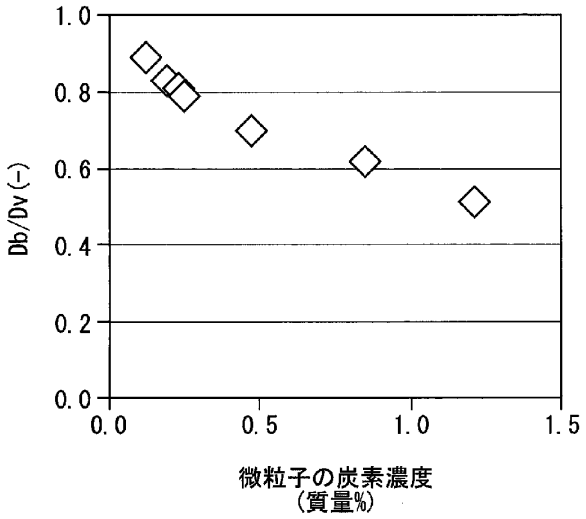
[図5]



[図6]


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

[図7]


1.0
0.8
0.6
0.4
0.2
0.0
Db/Dv(-)
0.0
0.5
1.0
1.5
微粒子の炭素濃度
(質量%)