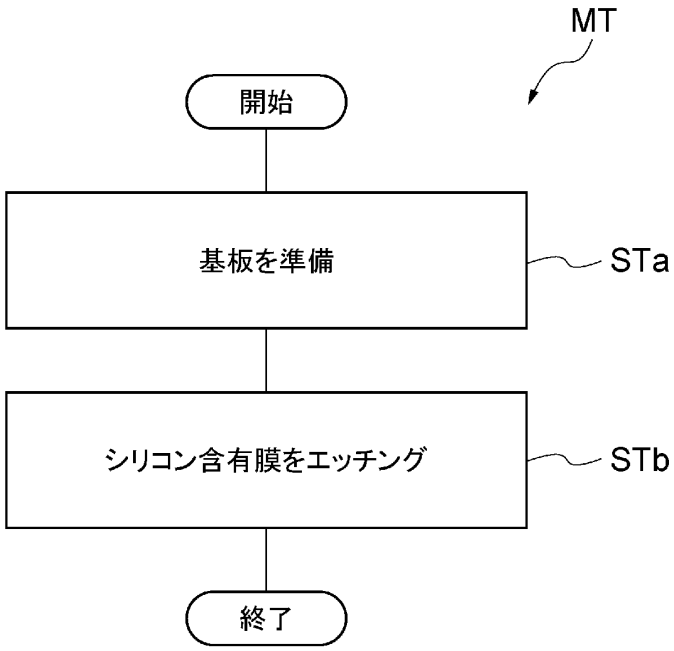
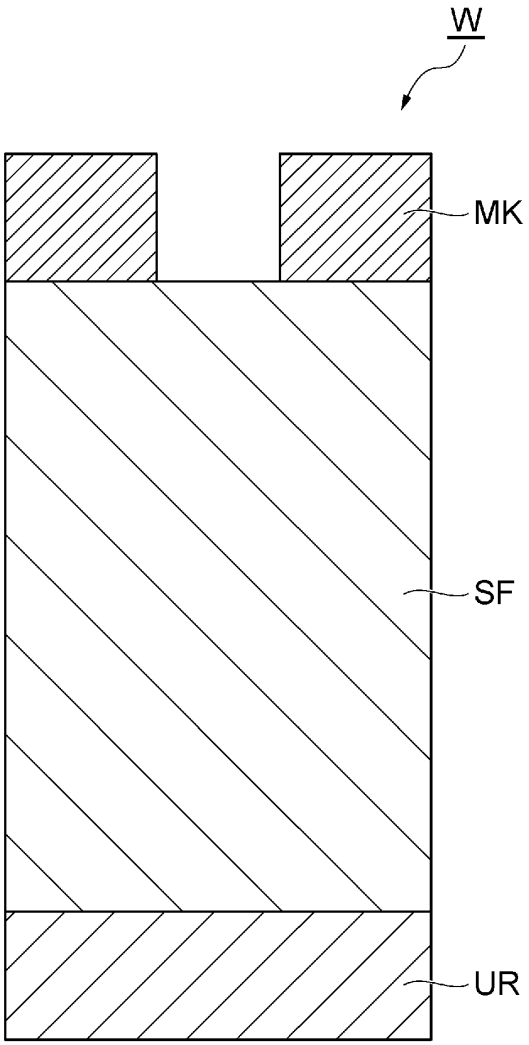
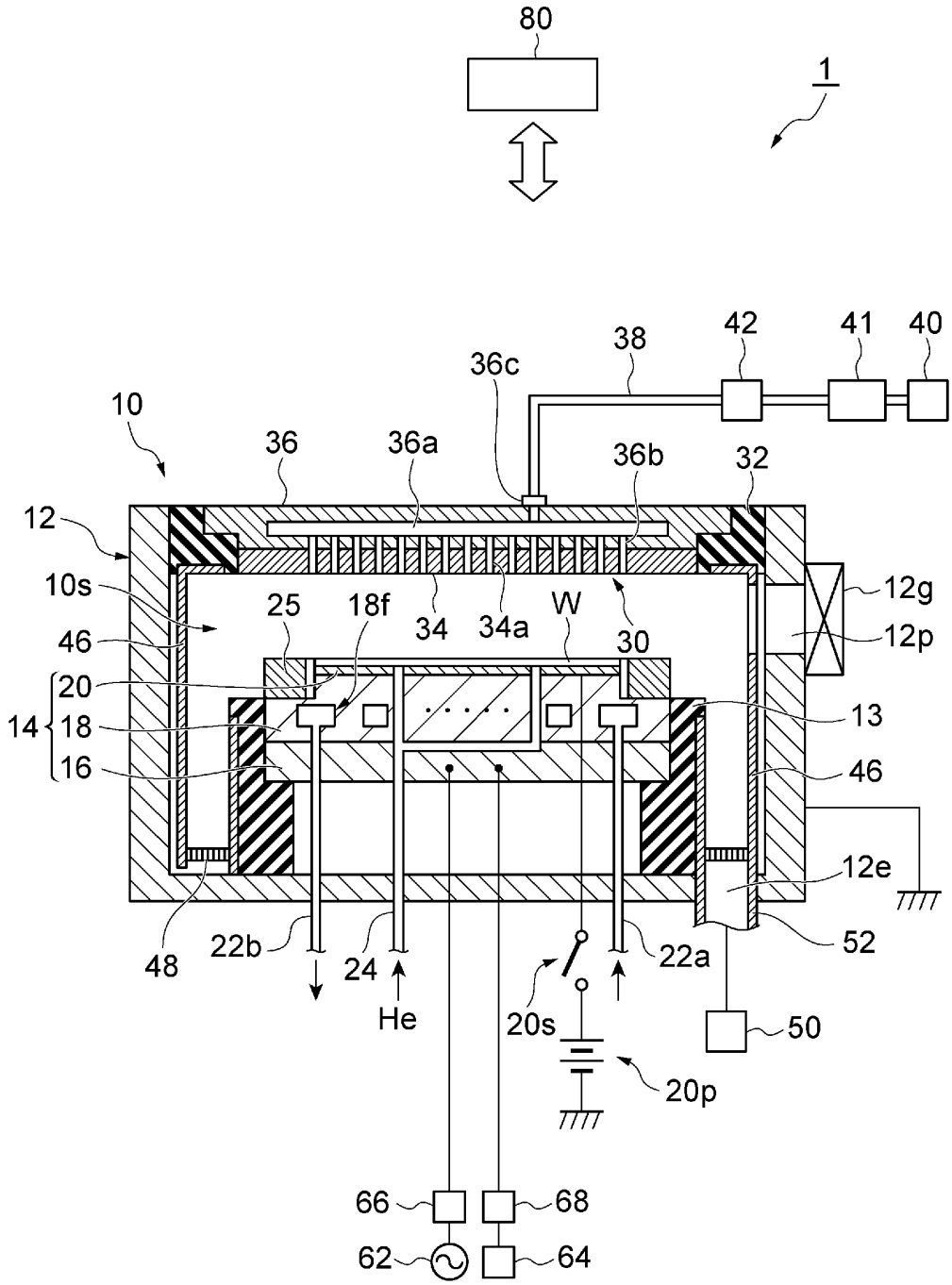
[図1]



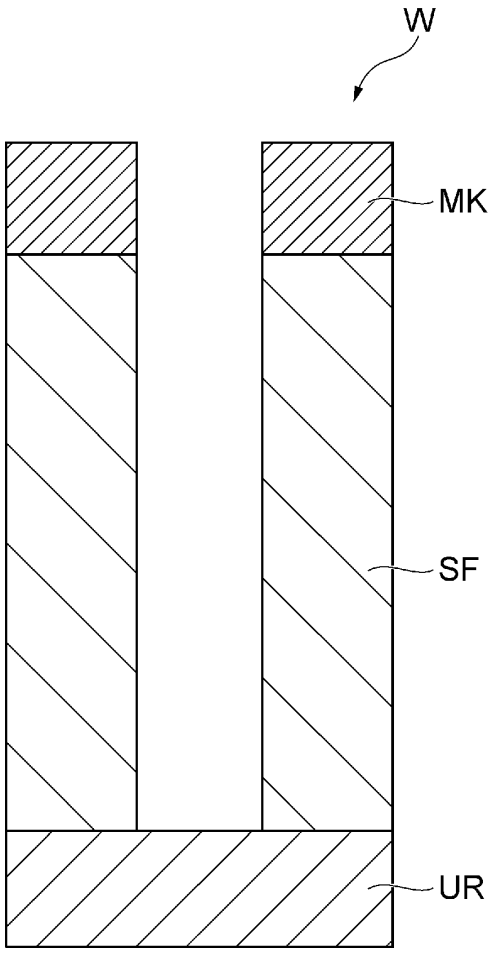
[図2]



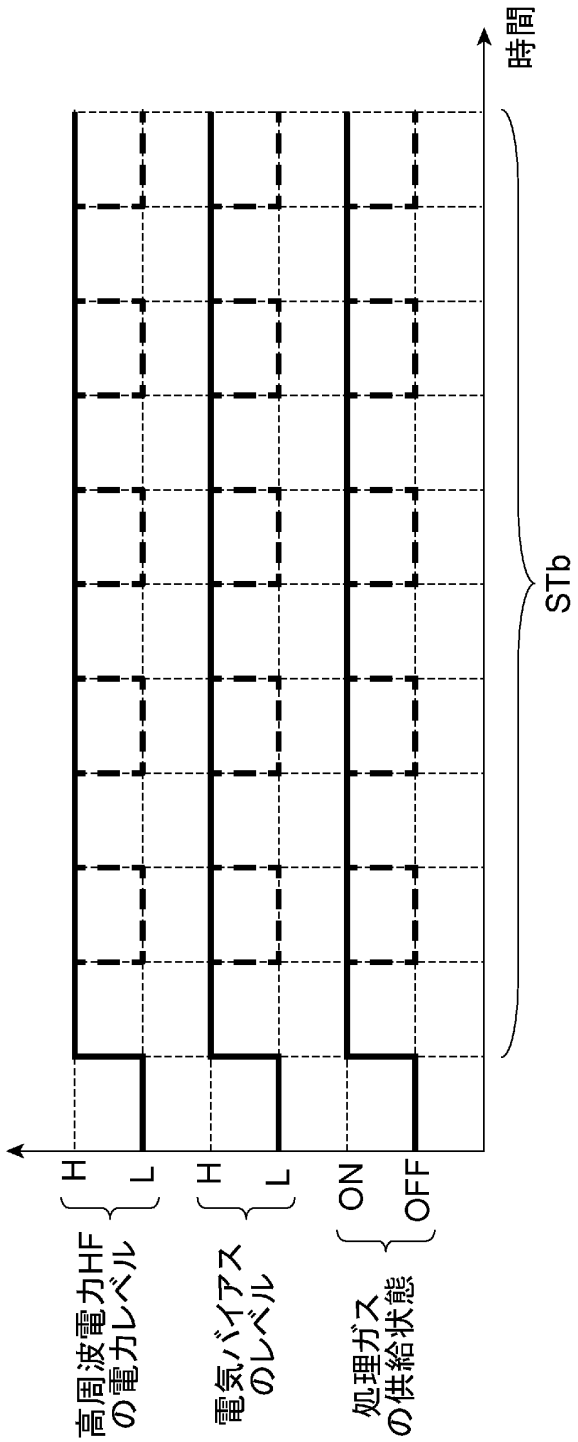
[図3]


80
1
10
36
36a
36c
38
42
41
40
36b
32
12
10s
25
18f
34
34a
W
30
12g
12p
46
20
14
18
16
13
46
12e
48
22b
24
He
22a
52
20s
50
20p
66
68
62
64

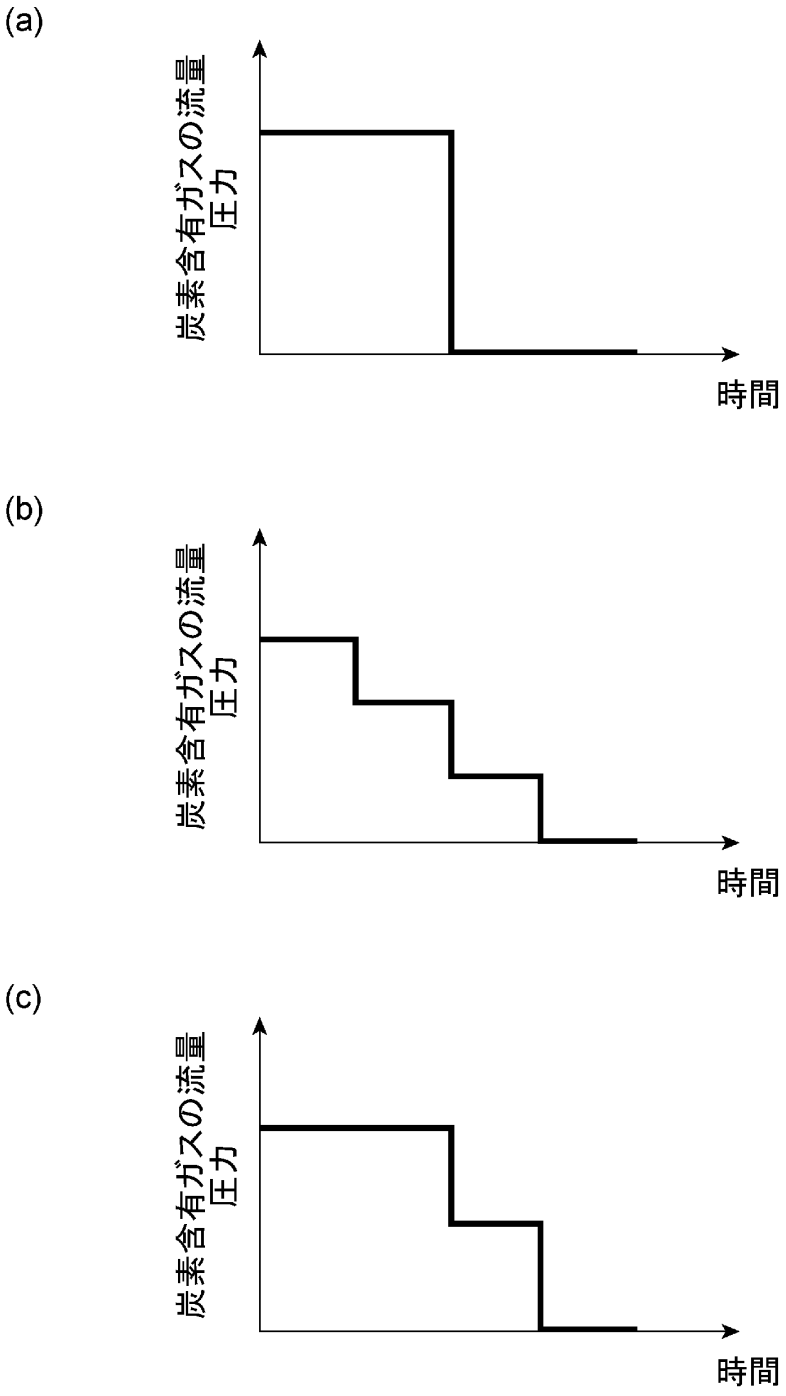
[図4]



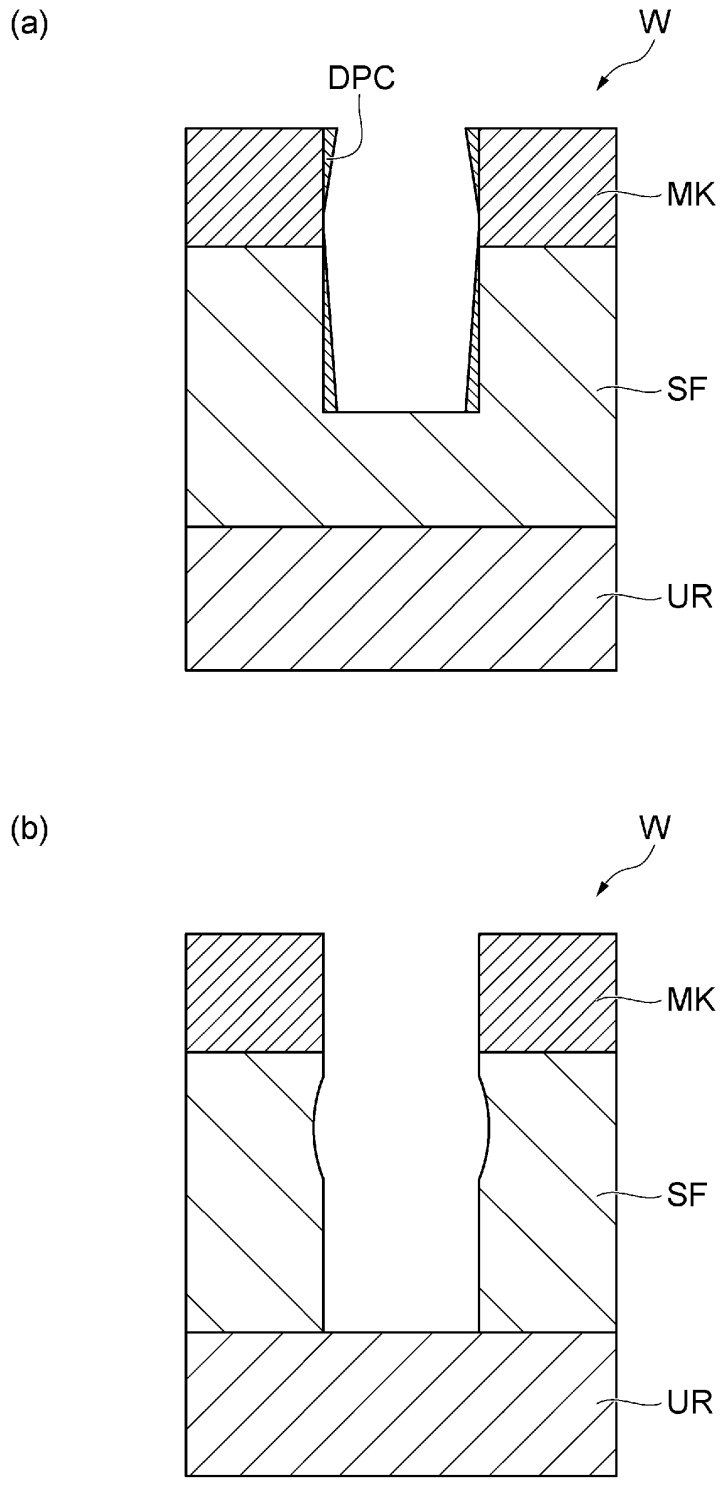
[図5]



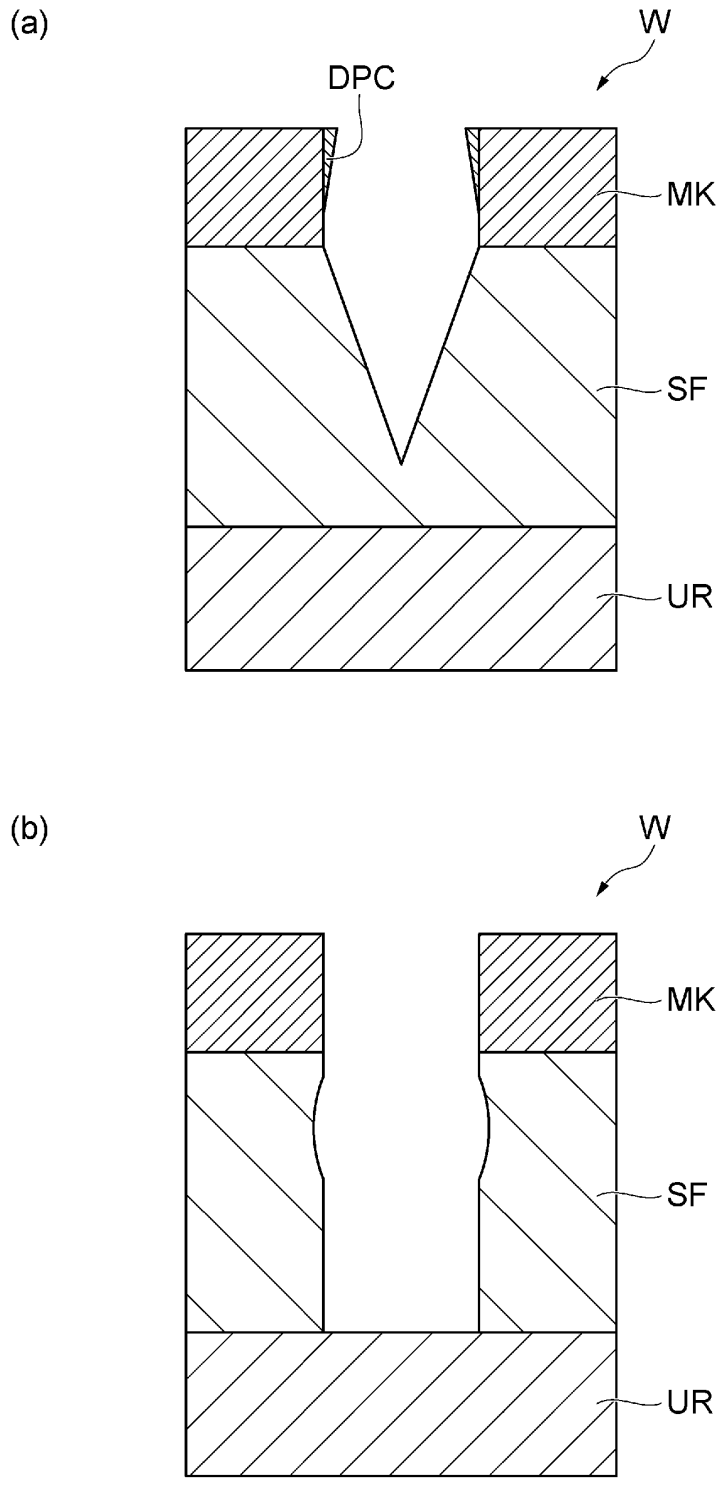
[図6]



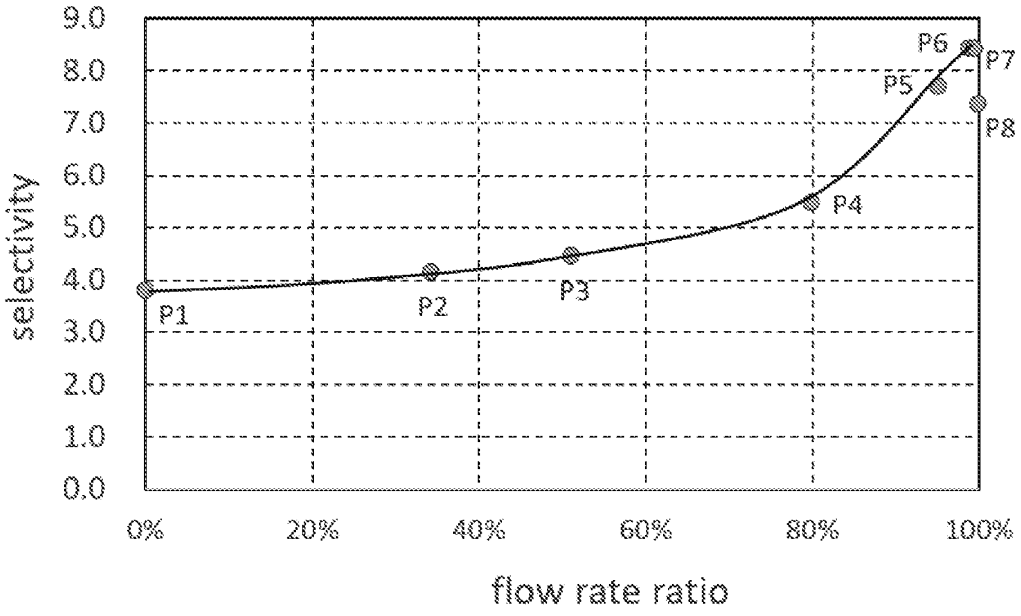
[図7]



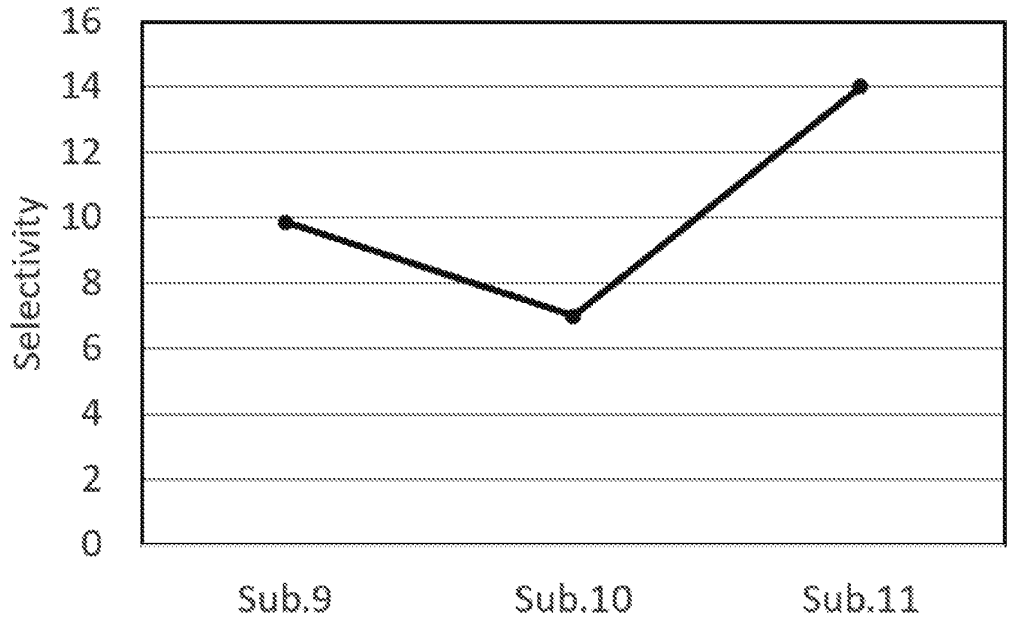
[図8]



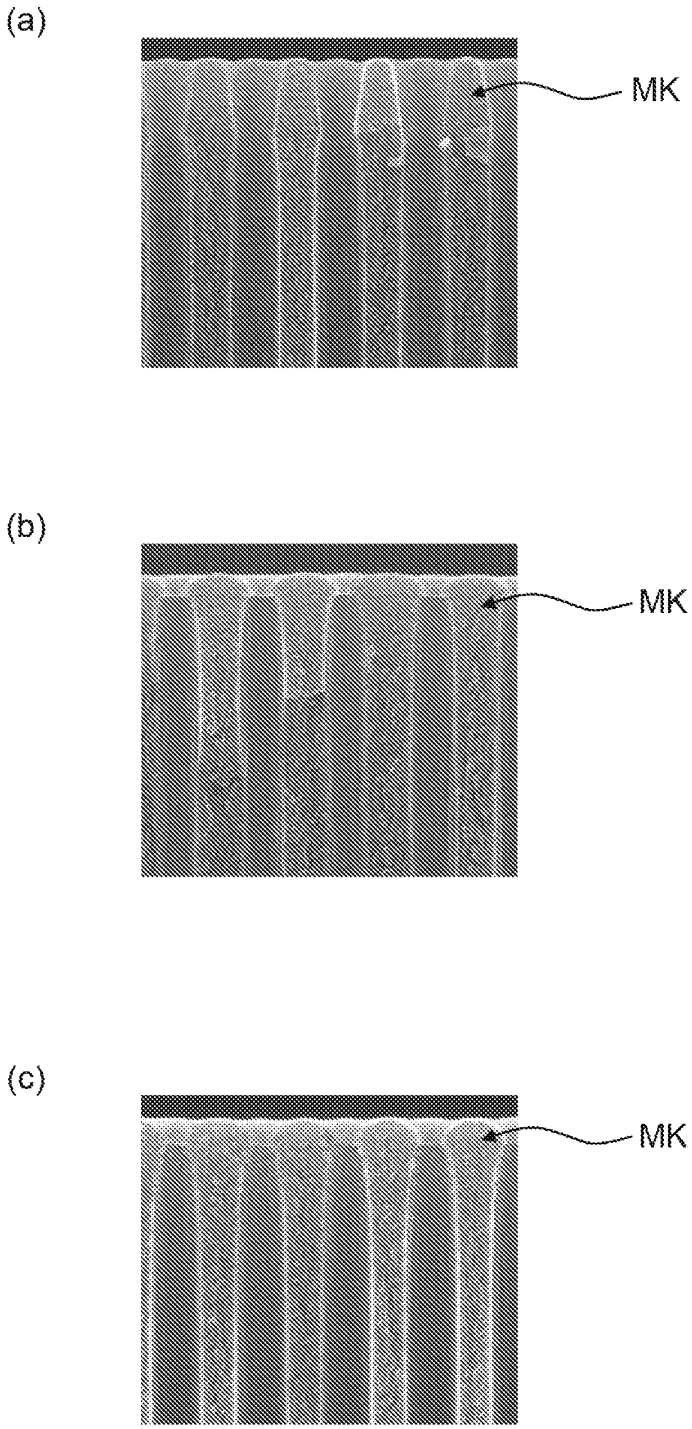
[図9]


9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
selectivity
0%
20%
40%
60%
80%
100%
flow rate ratio
P1
P2
P3
P4
P5
P6
P7
P8

[図10]

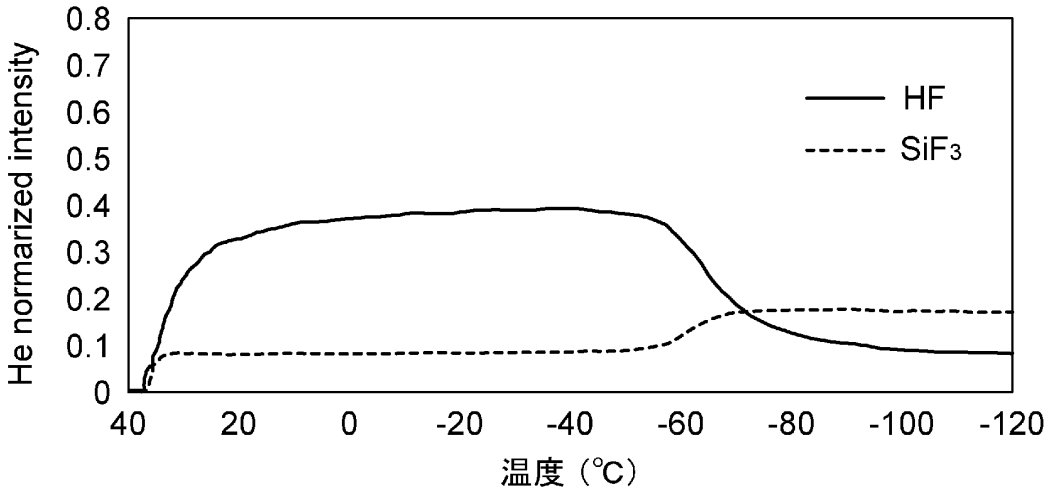


[図11]

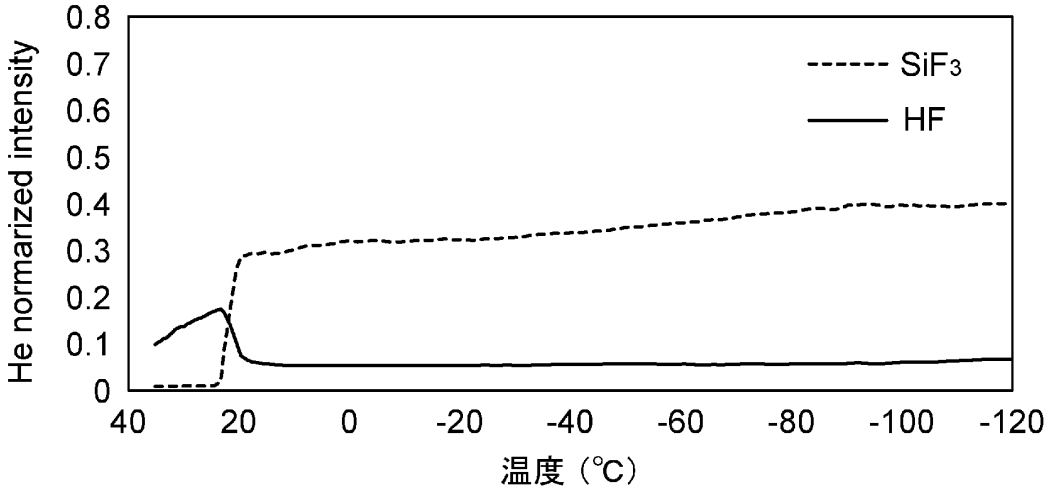


[図12]

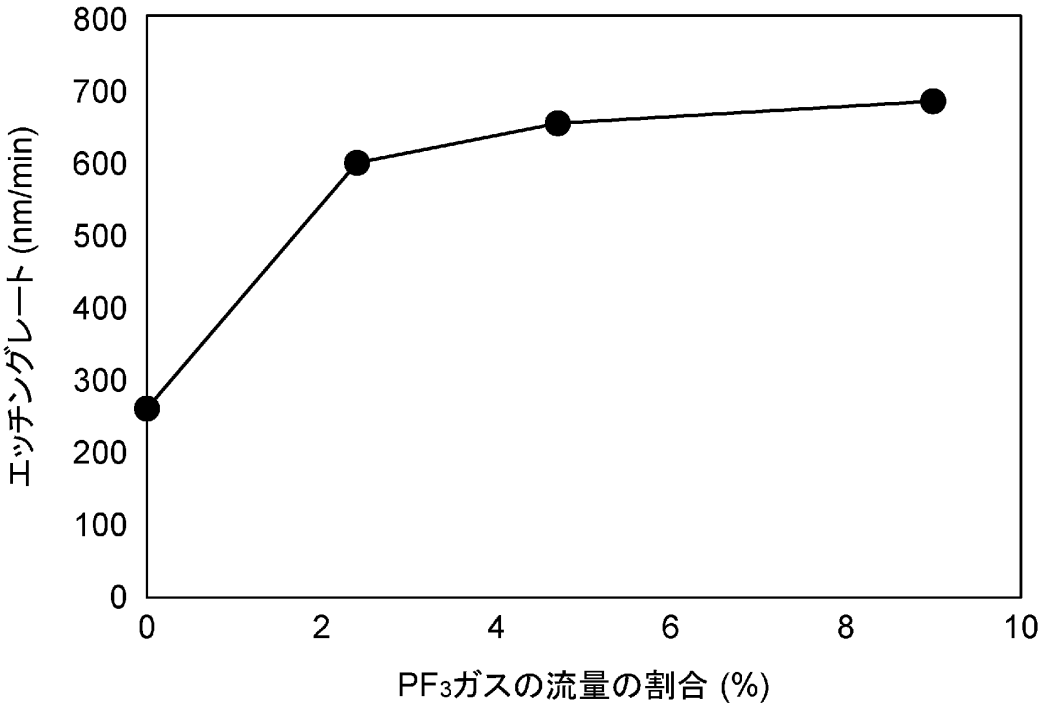
(a)


He normarized intensity
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
40
20
0
-20
-40
-60
-80
-100
-120
温度（℃）
HF
SiF3

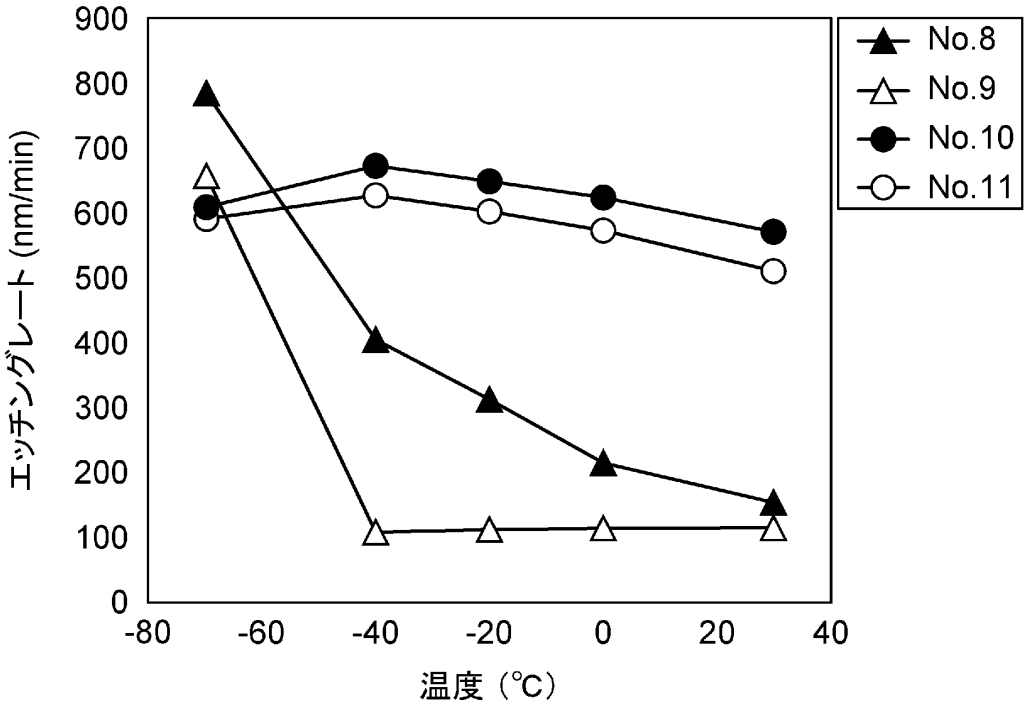
(b)


He normarized intensity
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
40
20
0
-20
-40
-60
-80
-100
-120
温度（℃）
SiF3
HF

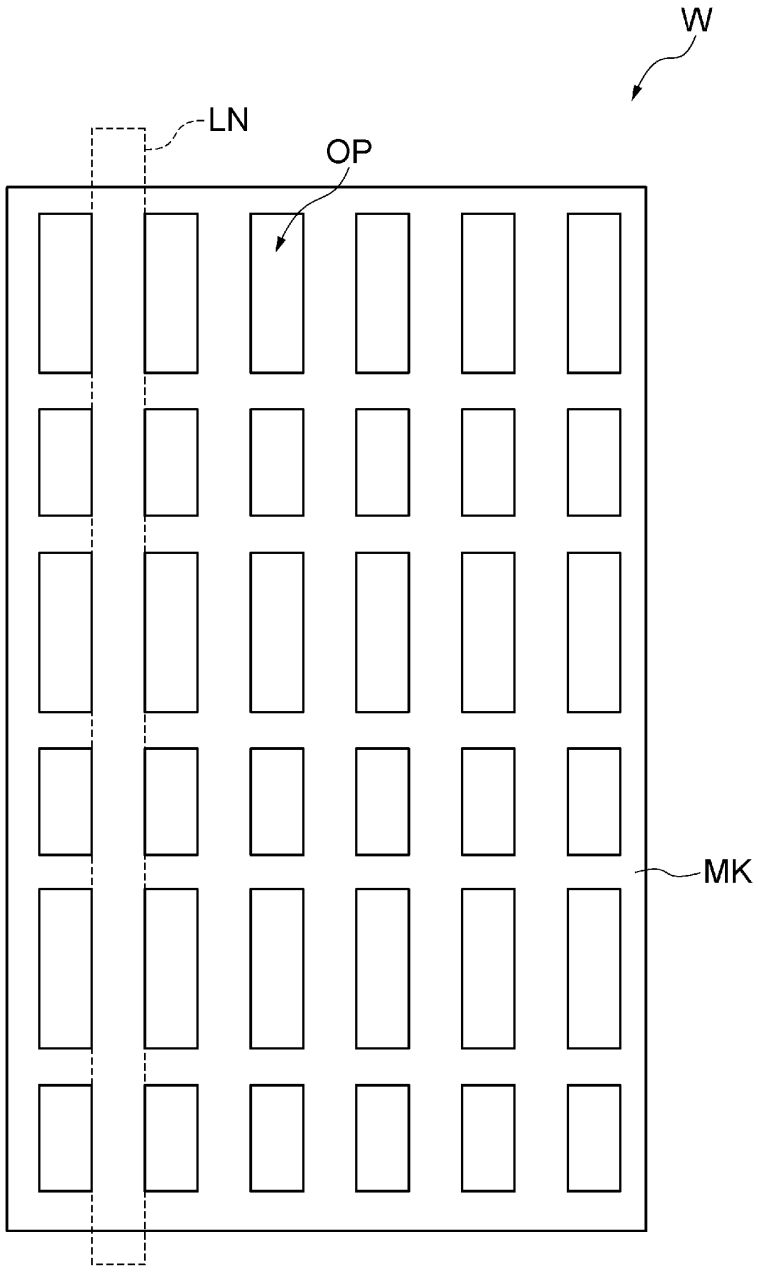
[図13]


800
700
600
500
400
300
200
100
0
エッチングレート (nm/min)
0
2
4
6
8
10
PF3ガスの流量の割合 (%)

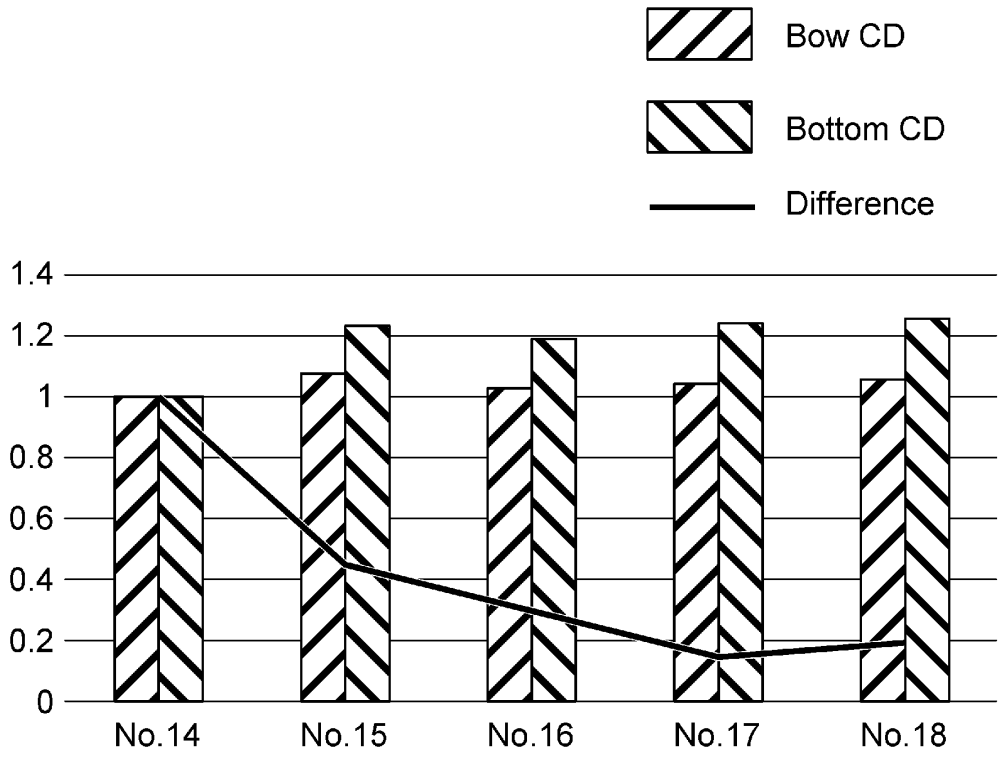
[図14]


900
800
700
600
500
400
300
200
100
0
エッチングレート (nm/min)
-80
-60
-40
-20
0
20
40
温度（℃）
No.8
No.9
No.10
No.11

[図15]



[図16]


Bow CD
Bottom CD
Difference
1.4
1.2
1
0.8
0.6
0.4
0.2
0
No.14
No.15
No.16
No.17
No.18