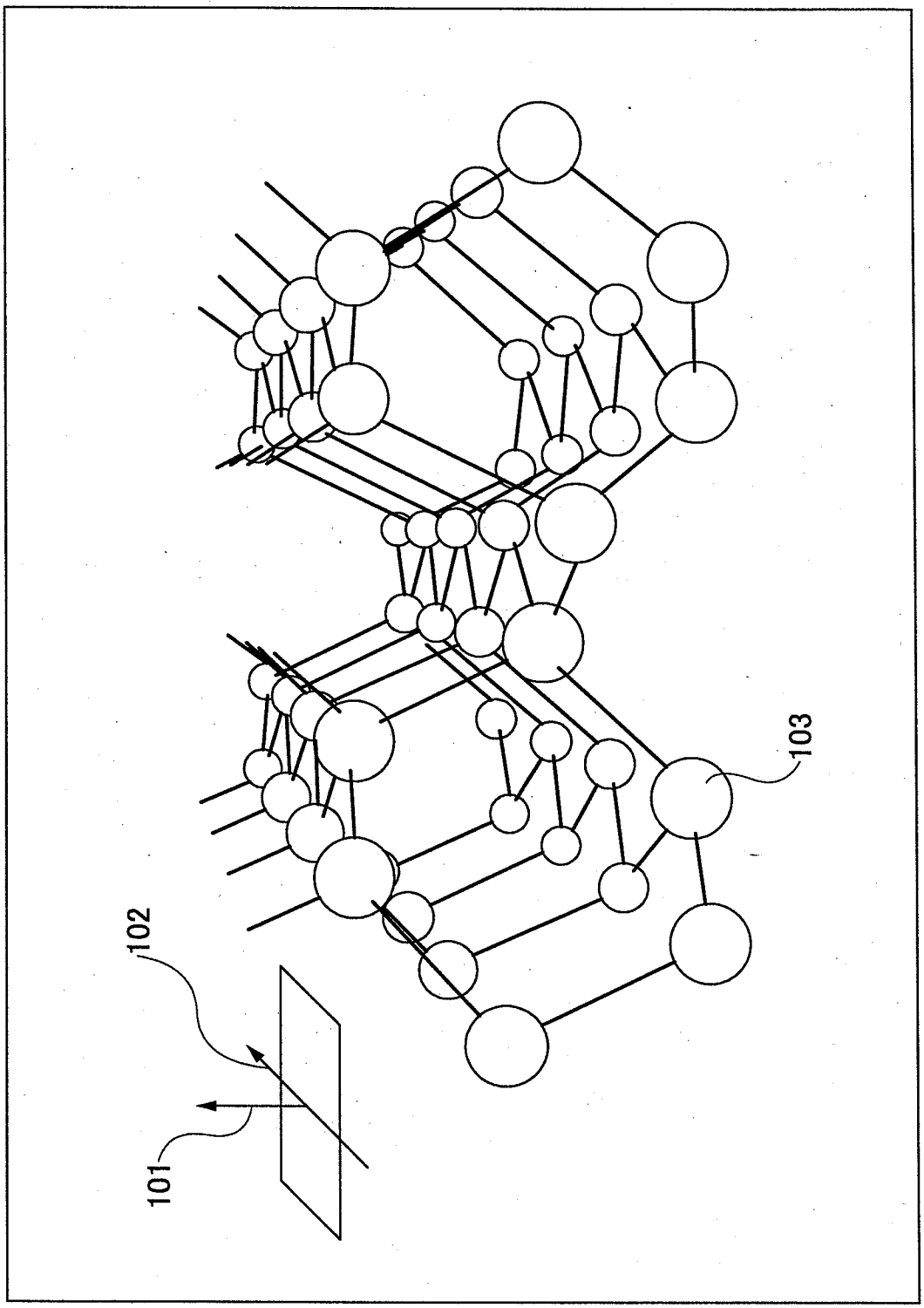
10 MAR 2006

FIG.1



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FIG.2

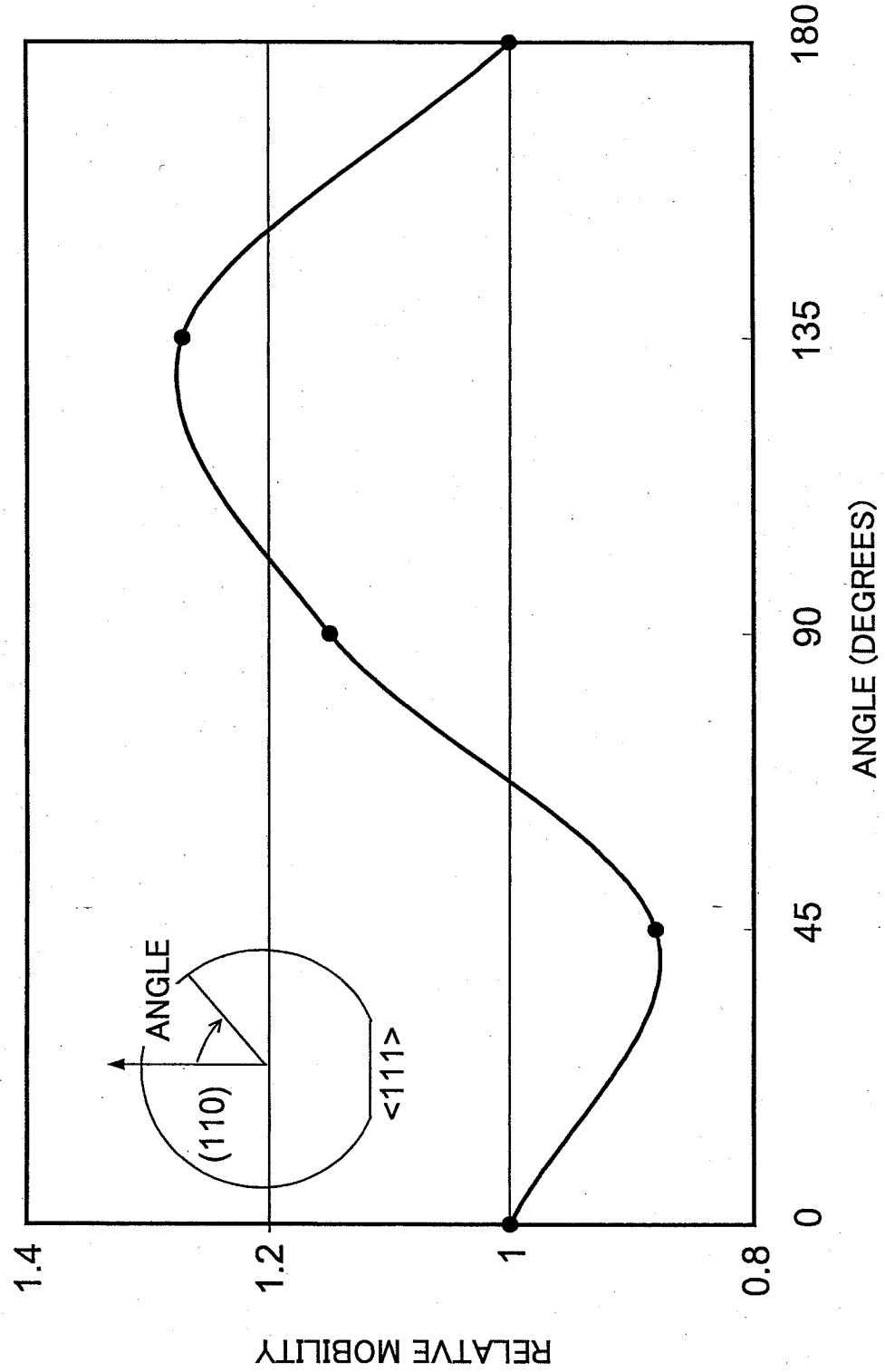
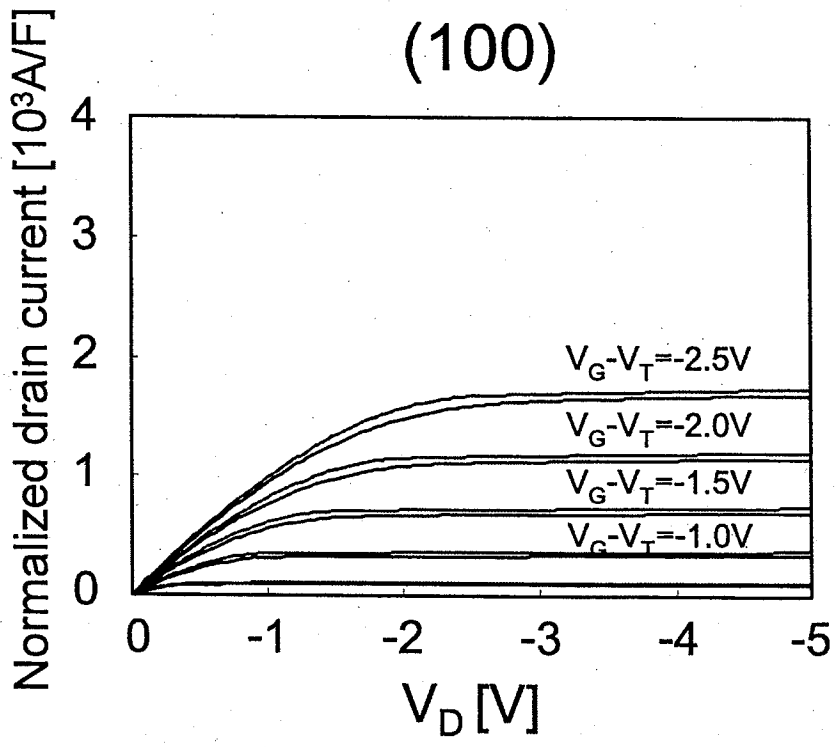


FIG.3A


(100)
Normalized drain current [10³A/F]
4
3
2
1
0
0
-1
-2
-3
-4
-5
V_D [V]
V_G-V_T=-2.5V
V_G-V_T=-2.0V
V_G-V_T=-1.5V
V_G-V_T=-1.0V

10 MAR 2006

FIG.3B

(111)

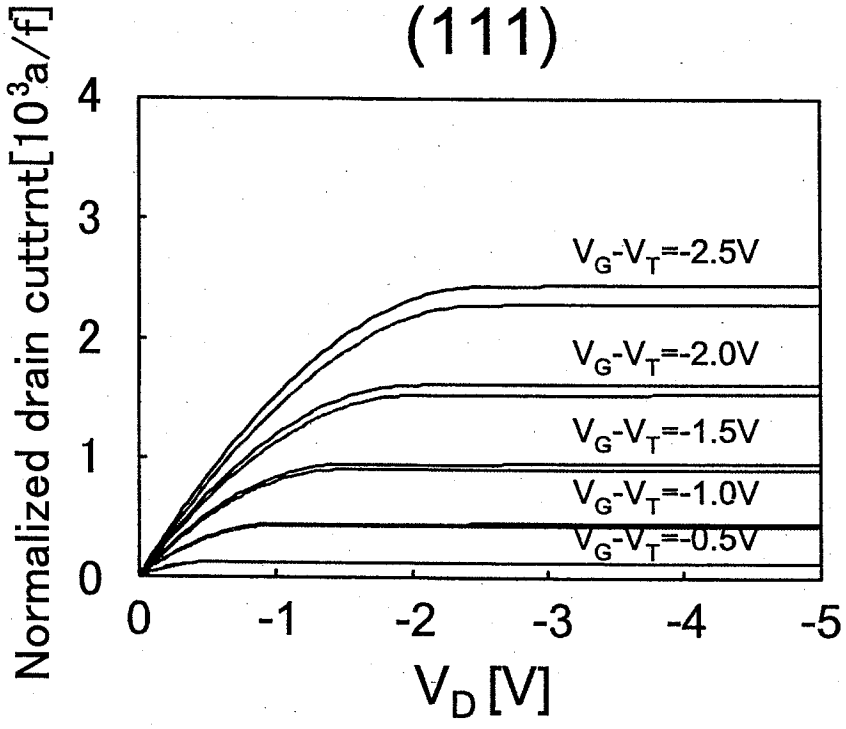


FIG.3C

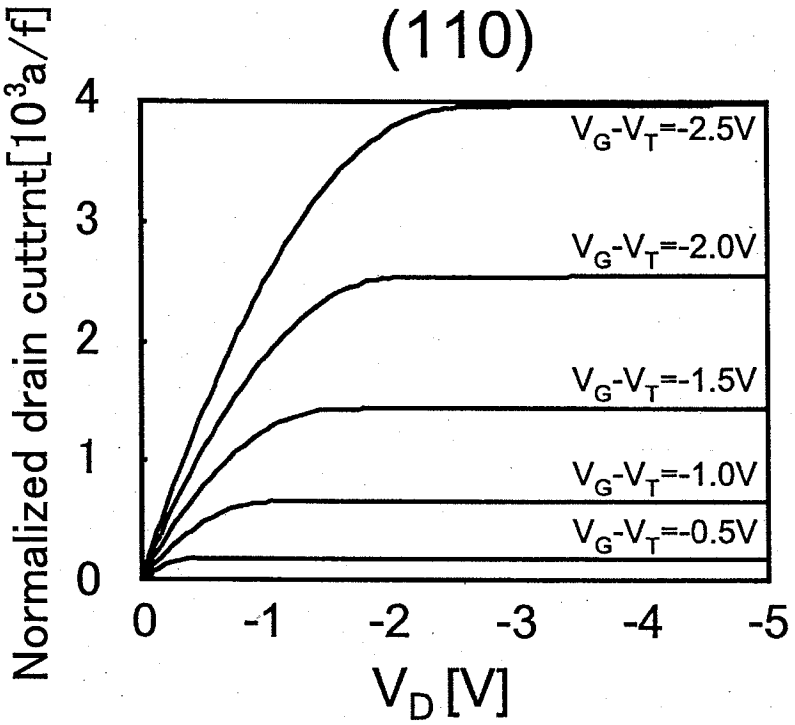

(110)
Normalized drain cuttrnt[10³a/f]
4
3
2
1
0
0
-1
-2
-3
-4
-5
V_D [V]
V_G-V_T=-2.5V
V_G-V_T=-2.0V
V_G-V_T=-1.5V
V_G-V_T=-1.0V
V_G-V_T=-0.5V

FIG.4

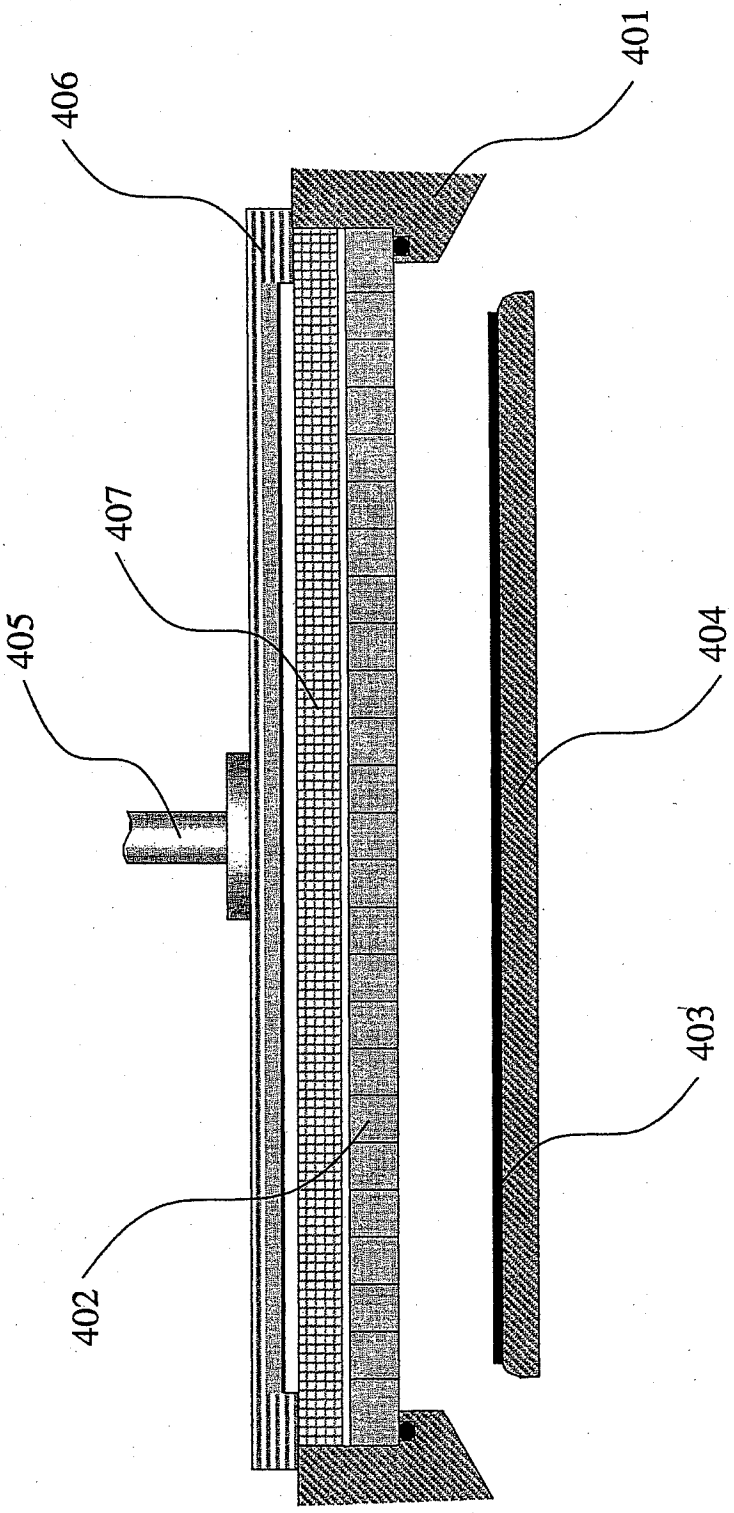
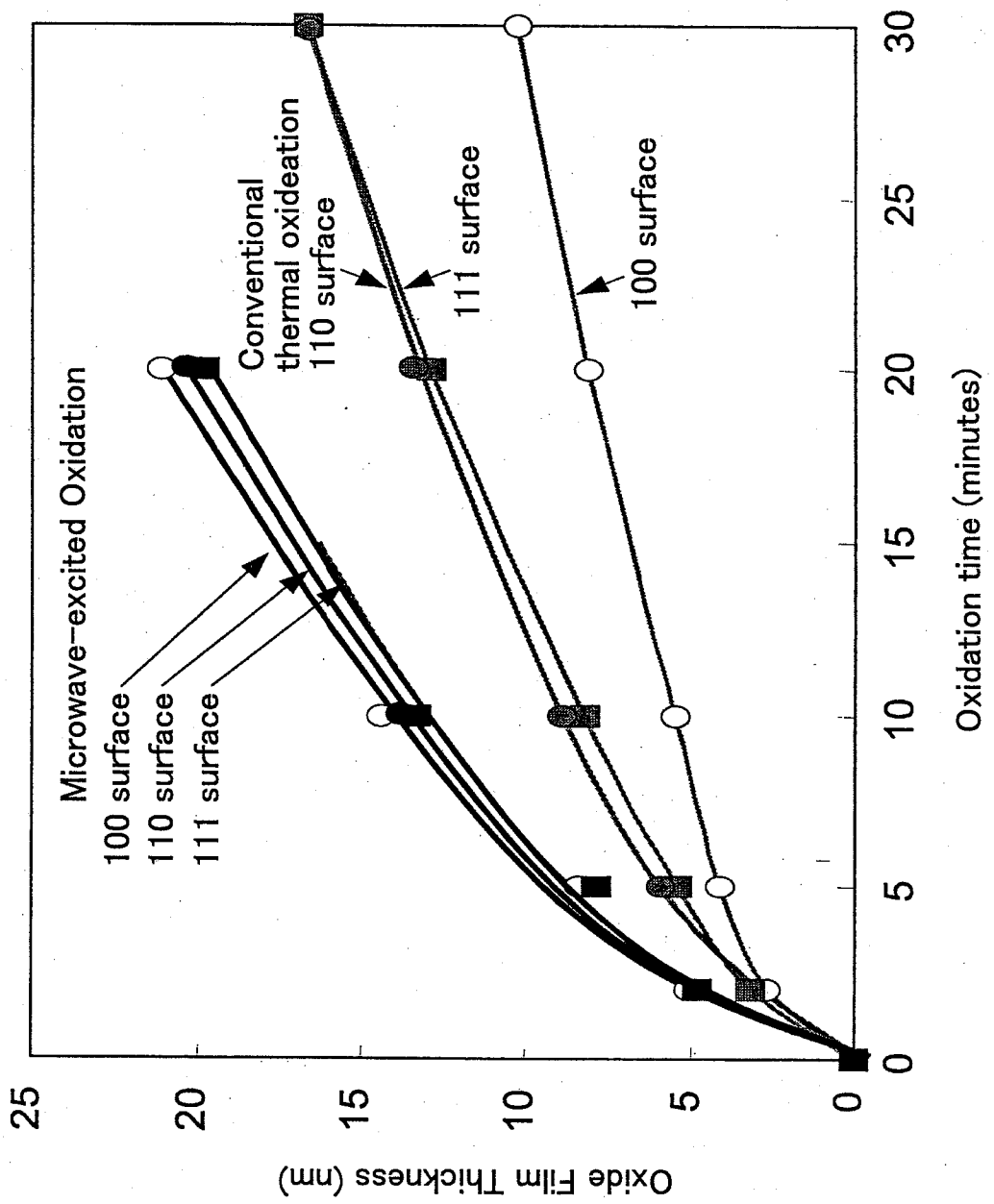


FIG.5


Microwave-excited Oxidation
100 surface
110 surface
111 surface
Conventional thermal oxideation
110 surface
111 surface
100 surface
Oxide Film Thickness (nm)
Oxidation time (minutes)
0
5
10
15
20
25
30