FIG.1

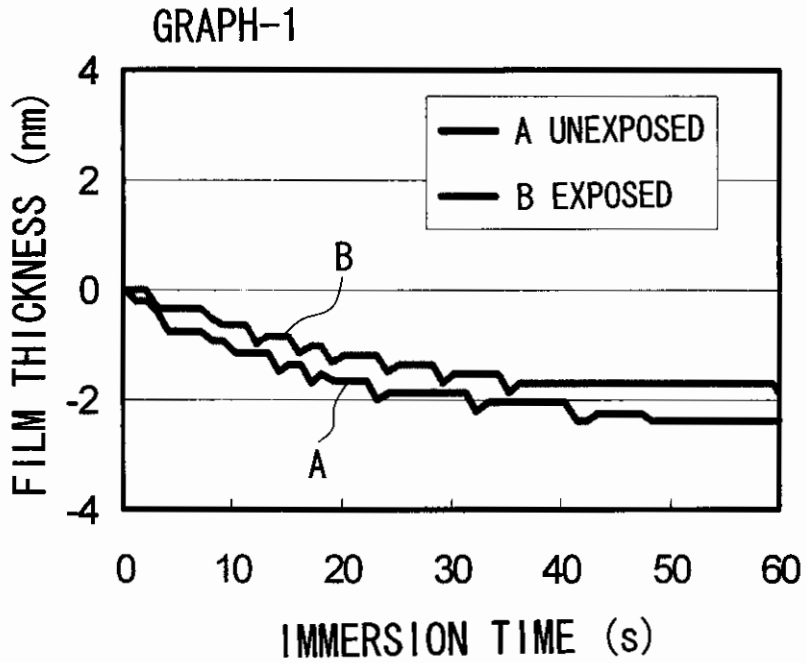

GRAPH-1
FILM THICKNESS (nm)
4
2
0
-2
-4
A UNEXPOSED
B EXPOSED
B
A
0
10
20
30
40
50
60
IMMERSION TIME (s)

FIG.2

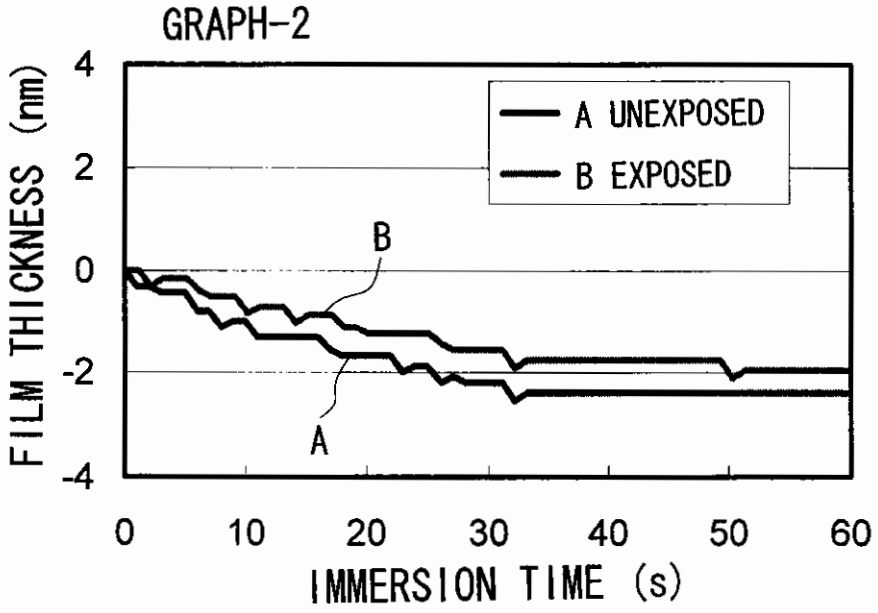

GRAPH-2
FILM THICKNESS (nm)
4
2
0
-2
-4
A UNEXPOSED
B EXPOSED
B
A
0
10
20
30
40
50
60
IMMERSION TIME (s)

FIG.3

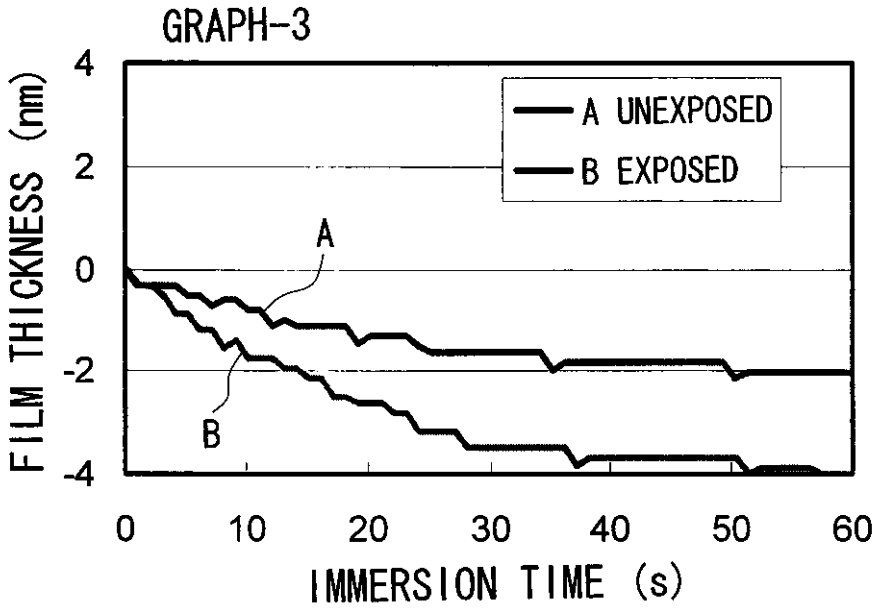

GRAPH-3
FILM THICKNESS (nm)
4
2
0
-2
-4
A UNEXPOSED
B EXPOSED
A
B
0
10
20
30
40
50
60
IMMERSION TIME (s)

FIG.4

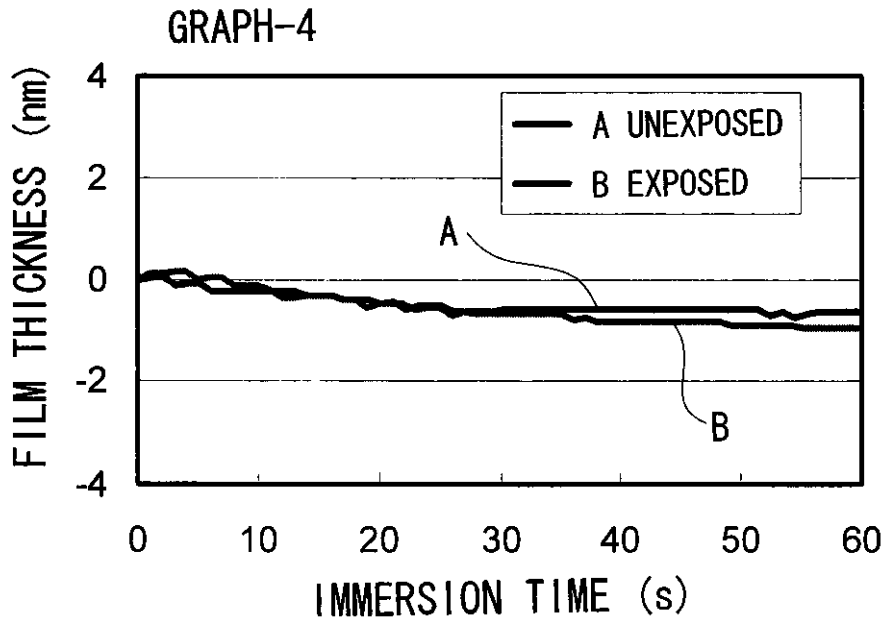

GRAPH-4
FILM THICKNESS (nm)
4
2
0
-2
-4
A UNEXPOSED
B EXPOSED
A
B
0
10
20
30
40
50
60
IMMERSION TIME (s)

FIG.5

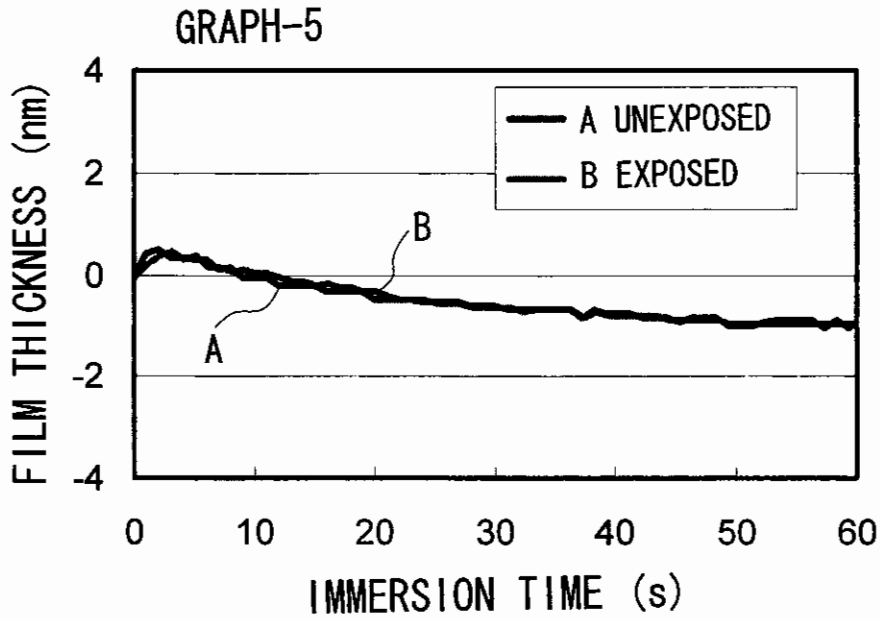

GRAPH-5
FILM THICKNESS (nm)
4
2
0
-2
-4
A UNEXPOSED
B EXPOSED
B
A
0
10
20
30
40
50
60
IMMERSION TIME (s)

FIG.6

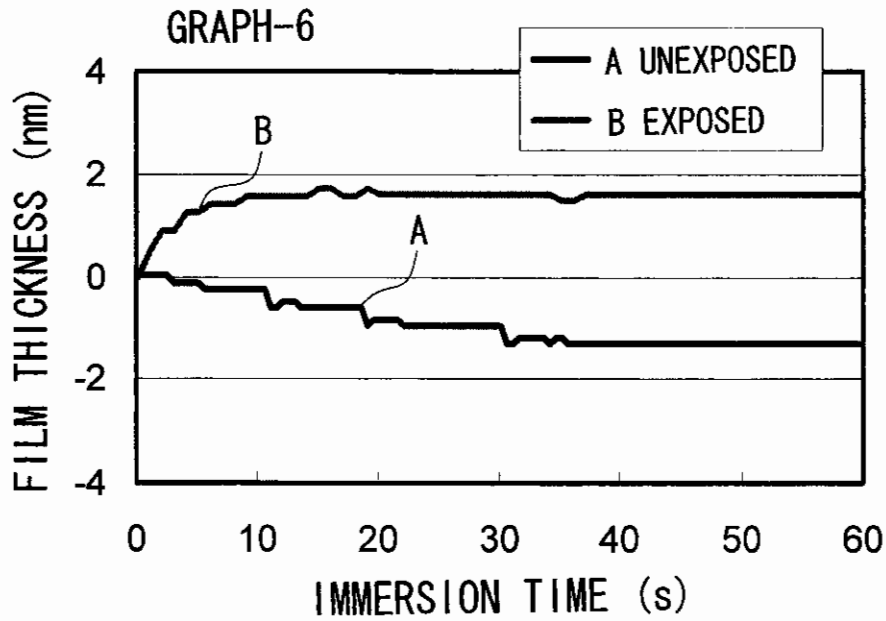

GRAPH-6
FILM THICKNESS (nm)
4
2
0
-2
-4
A UNEXPOSED
B EXPOSED
B
A
0
10
20
30
40
50
60
IMMERSION TIME (s)

FIG.7

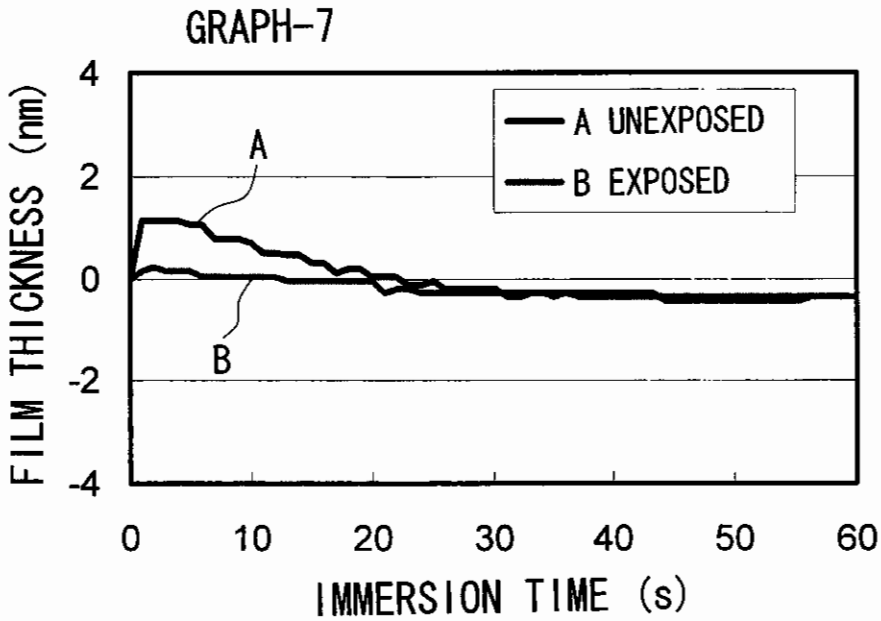

GRAPH-7
FILM THICKNESS (nm)
4
2
0
-2
-4
A
B
A UNEXPOSED
B EXPOSED
0
10
20
30
40
50
60
IMMERSION TIME (s)

FIG.8

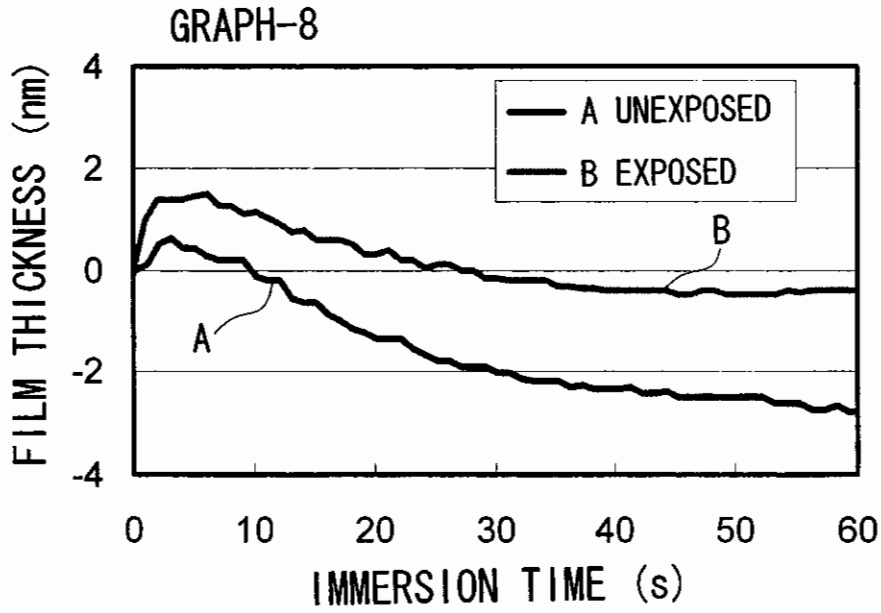
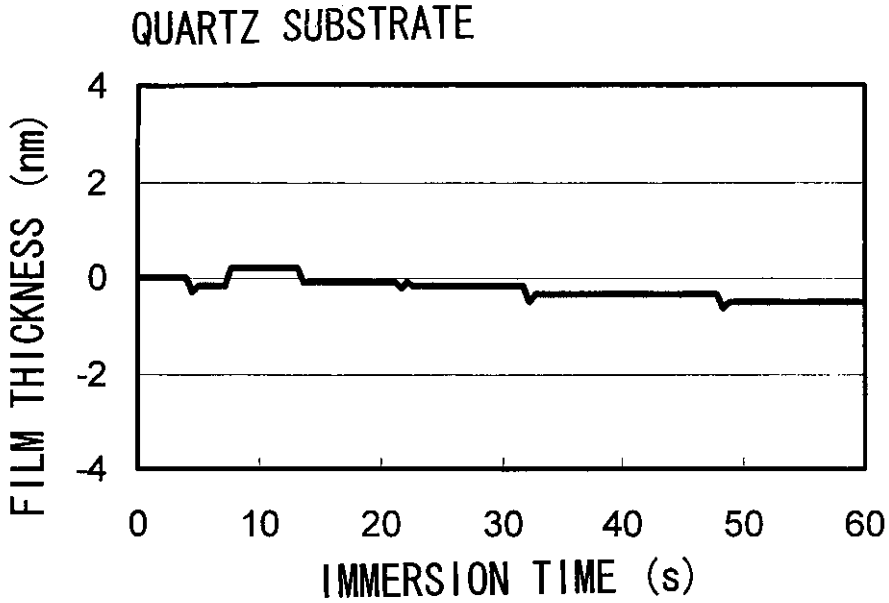
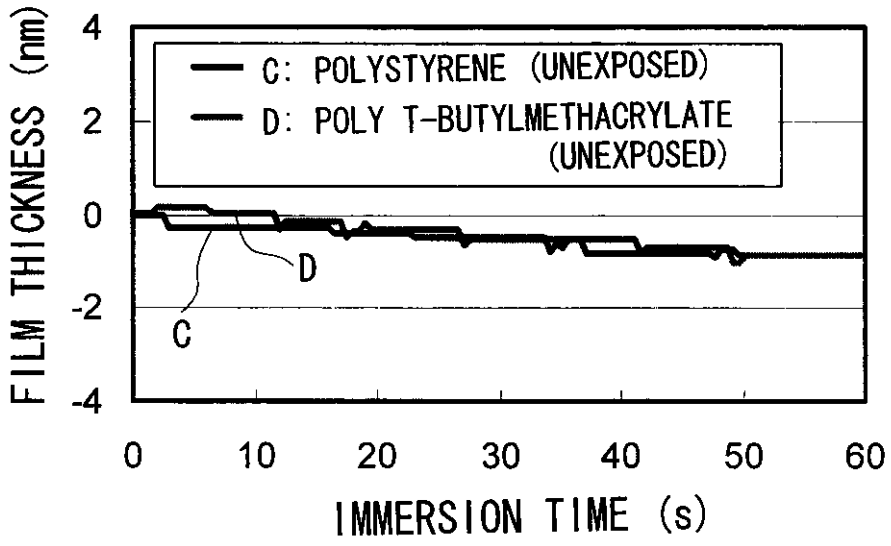

GRAPH-8
FILM THICKNESS (nm)
4
2
0
-2
-4
A
B
A UNEXPOSED
B EXPOSED
0
10
20
30
40
50
60
IMMERSION TIME (s)

FIG.9



A SUBSTRATE WITH NO APPLIED RESIST WAS SUBJECTED TO WATER IMMERSION TESTING.

FIG.10



SUBSTRATES TO WHICH POLYSTYRENE OR POLY T-BUTYLMETHACRYLATE HAD BEEN APPLIED WERE SUBJECTED TO WATER IMMERSION TESTING. THE SOLVENT USED FOR THE SAMPLE SOLUTIONS WAS THE SAME MIXTURE OF ETHYL LACTATE AND PGMEA USED FOR THE OTHER SAMPLES. ALL OTHER CONDITIONS WERE THE SAME AS THOSE USED FOR THE OTHER TESTS.