FIG. 1

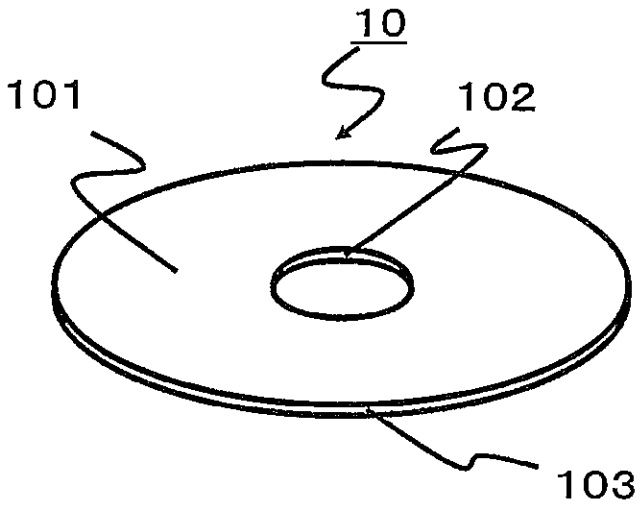


FIG. 2

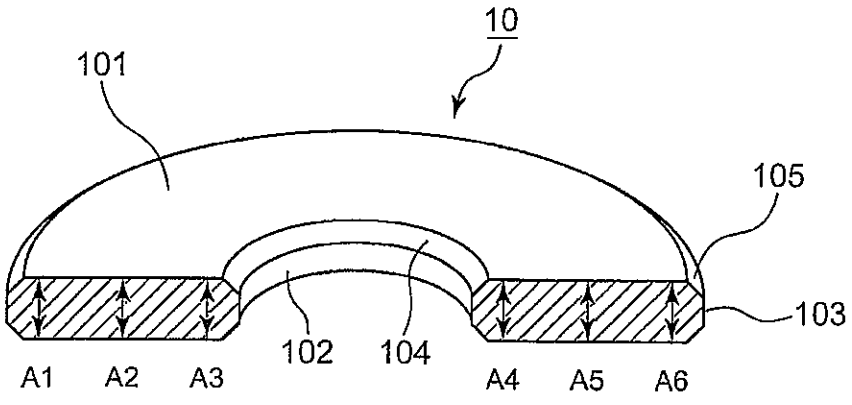


FIG. 3A

NUMBER OF INTERFERENCE FRINGES n [number]	PARALLELISM n X 0.32 [μm]
0	0.00
1	0.32
2	0.64
3	0.96
4	1.28
5	1.60
6	1.92
7	2.24
8	2.56
9	2.88
10	3.20
11	2.52
12	3.84
13	4.16
14	4.48

FIG. 3B

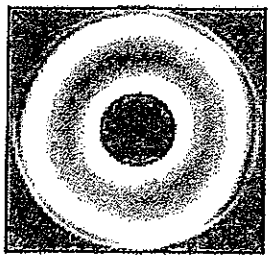
NUMBER OF INTERFERENCE FRINGES n [number]	PARALLELISM n X 0.32 [μm]
1	0.32
	

FIG. 3C

NUMBER OF INTERFERENCE FRINGES n [number]	PARALLELISM n X 0.32 [μm]
7	2.24
	

FIG. 3D

NUMBER OF INTERFERENCE FRINGES n [number]	PARALLELISM n X 0.32 [μm]
12	3.84

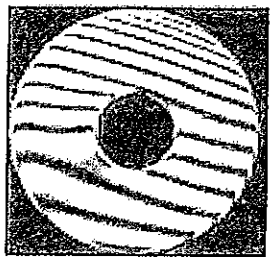


FIG. 4

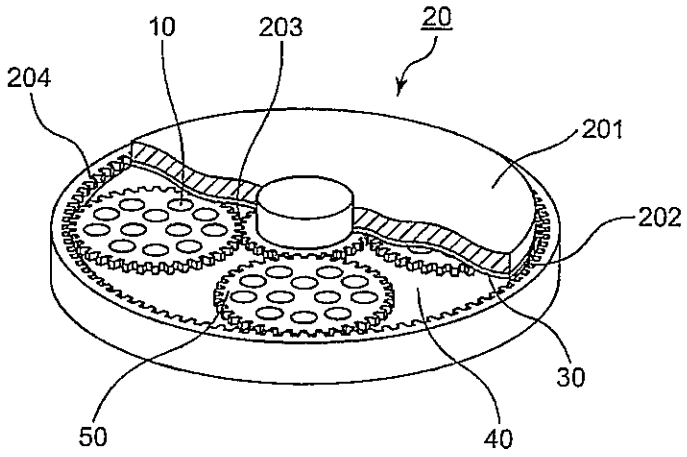


FIG. 5

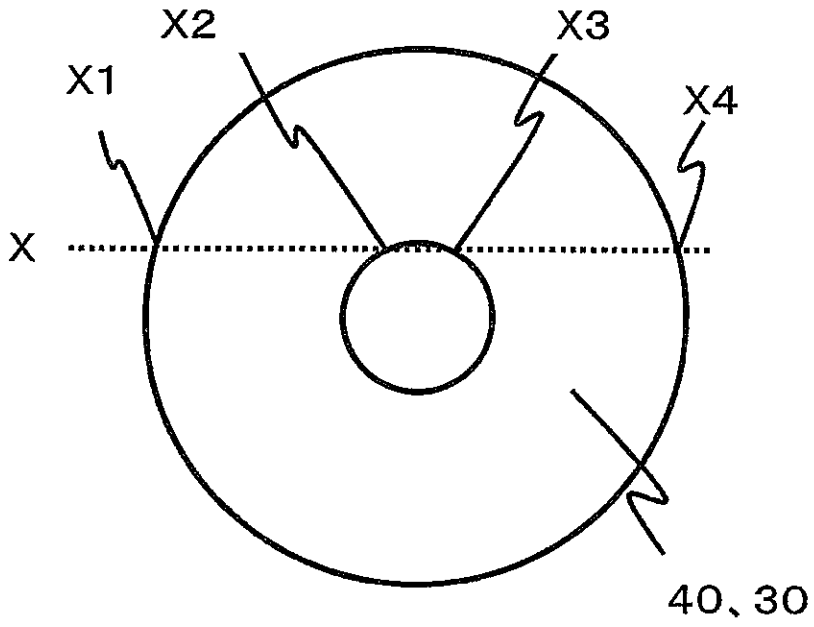


FIG. 6

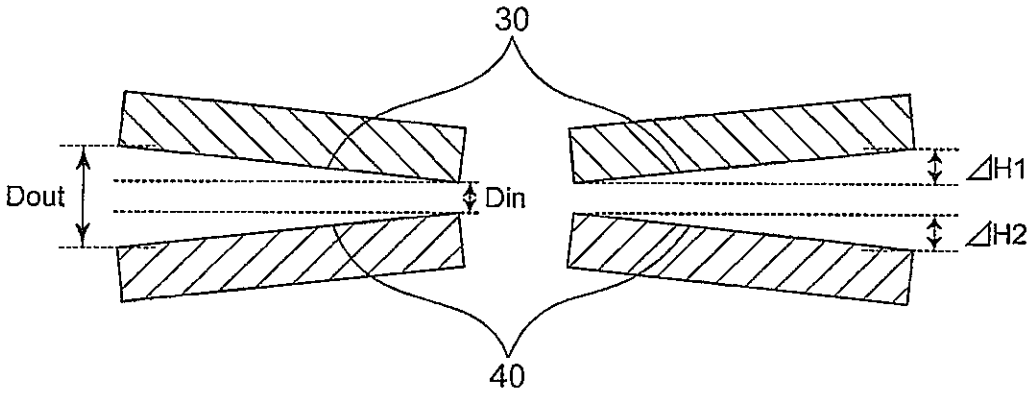


FIG. 7

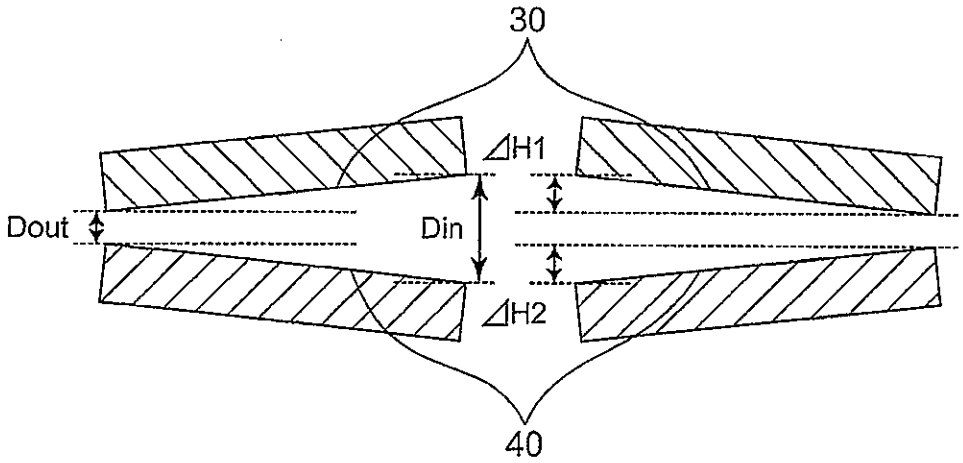


FIG. 8A

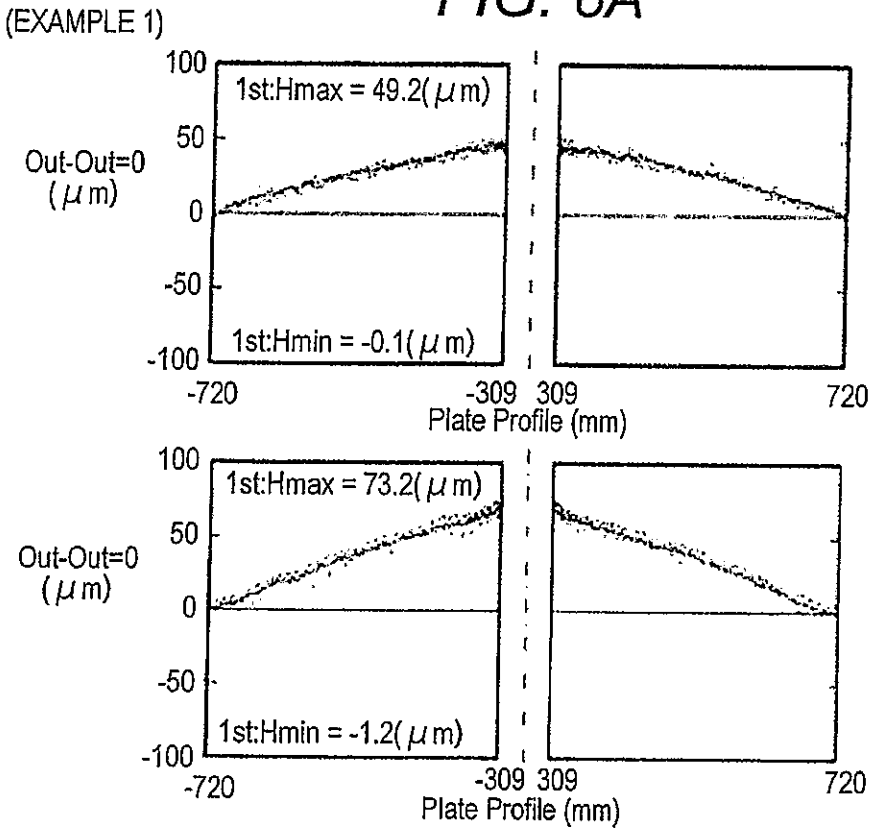

(EXAMPLE 1)
100
50
0
-50
-100
Out-Out=0
(μm)
1st:Hmax = 49.2(μm)
1st:Hmin = -0.1(μm)
-720
-309
309
720
Plate Profile (mm)
100
50
0
-50
-100
Out-Out=0
(μm)
1st:Hmax = 73.2(μm)
1st:Hmin = -1.2(μm)
-720
-309
309
720
Plate Profile (mm)

FIG. 8B

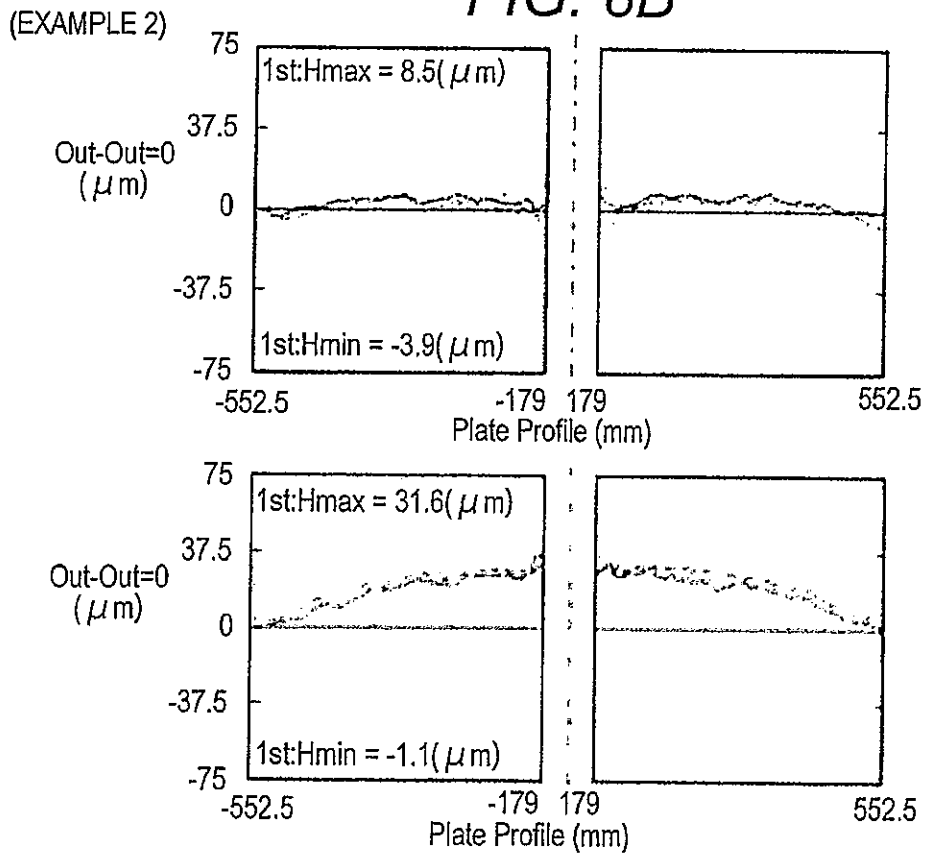

(EXAMPLE 2)
75
37.5
0
-37.5
-75
Out-Out=0
(μm)
1st:Hmax = 8.5(μm)
1st:Hmin = -3.9(μm)
-552.5
-179
179
552.5
Plate Profile (mm)
75
37.5
0
-37.5
-75
Out-Out=0
(μm)
1st:Hmax = 31.6(μm)
1st:Hmin = -1.1(μm)
-552.5
-179
179
552.5
Plate Profile (mm)

FIG. 8C

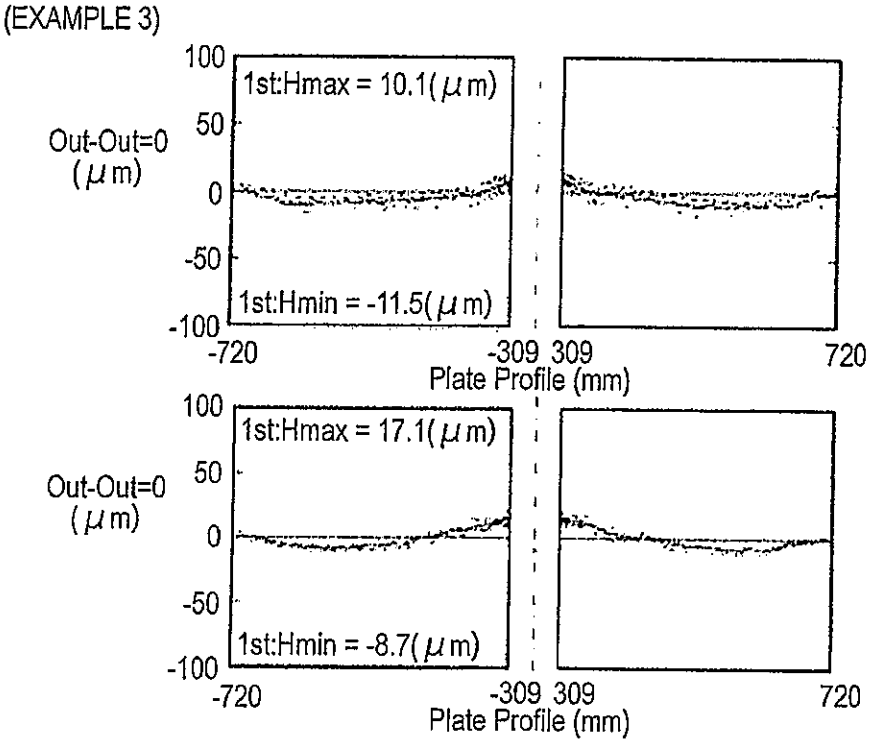

(EXAMPLE 3)
Out-Out=0 (μm)
100
50
0
-50
-100
1st:Hmax = 10.1(μm)
1st:Hmin = -11.5(μm)
-720
-309
309
720
Plate Profile (mm)
Out-Out=0 (μm)
1st:Hmax = 17.1(μm)
1st:Hmin = -8.7(μm)
Plate Profile (mm)

FIG. 8D

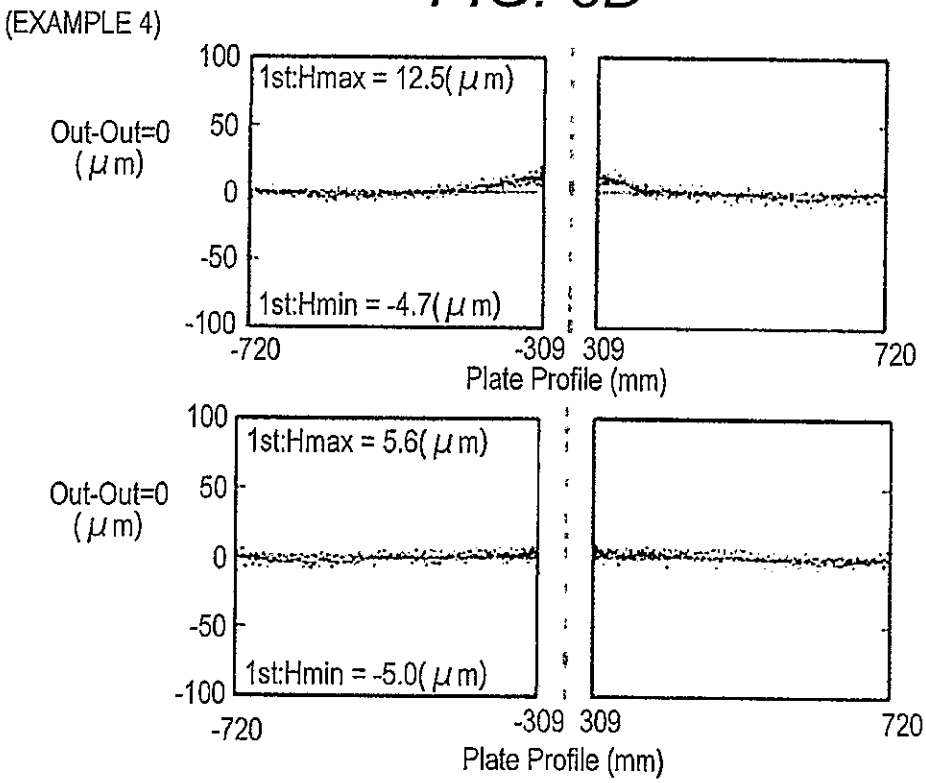

(EXAMPLE 4)
Out-Out=0 (μm)
100
50
0
-50
-100
1st:Hmax = 12.5(μm)
1st:Hmin = -4.7(μm)
-720
-309
309
720
Plate Profile (mm)
Out-Out=0 (μm)
1st:Hmax = 5.6(μm)
1st:Hmin = -5.0(μm)
Plate Profile (mm)

FIG. 8E

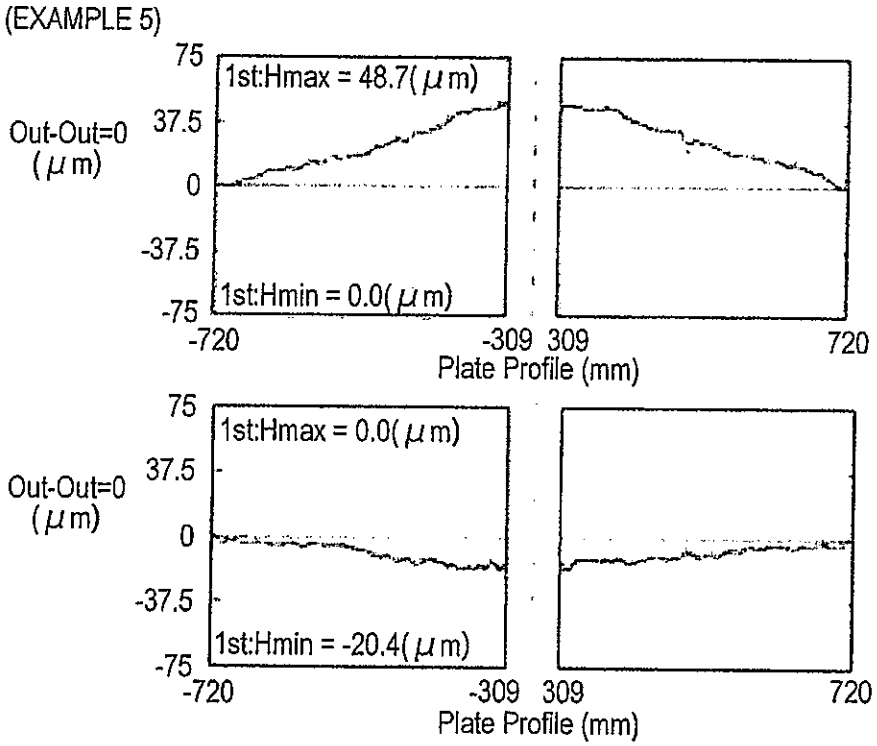

(EXAMPLE 5)
75
37.5
0
-37.5
-75
Out-Out=0
(μm)
1st:Hmax = 48.7(μm)
1st:Hmin = 0.0(μm)
-720
-309
309
720
Plate Profile (mm)
75
37.5
0
-37.5
-75
Out-Out=0
(μm)
1st:Hmax = 0.0(μm)
1st:Hmin = -20.4(μm)
-720
-309
309
720
Plate Profile (mm)

FIG. 9A

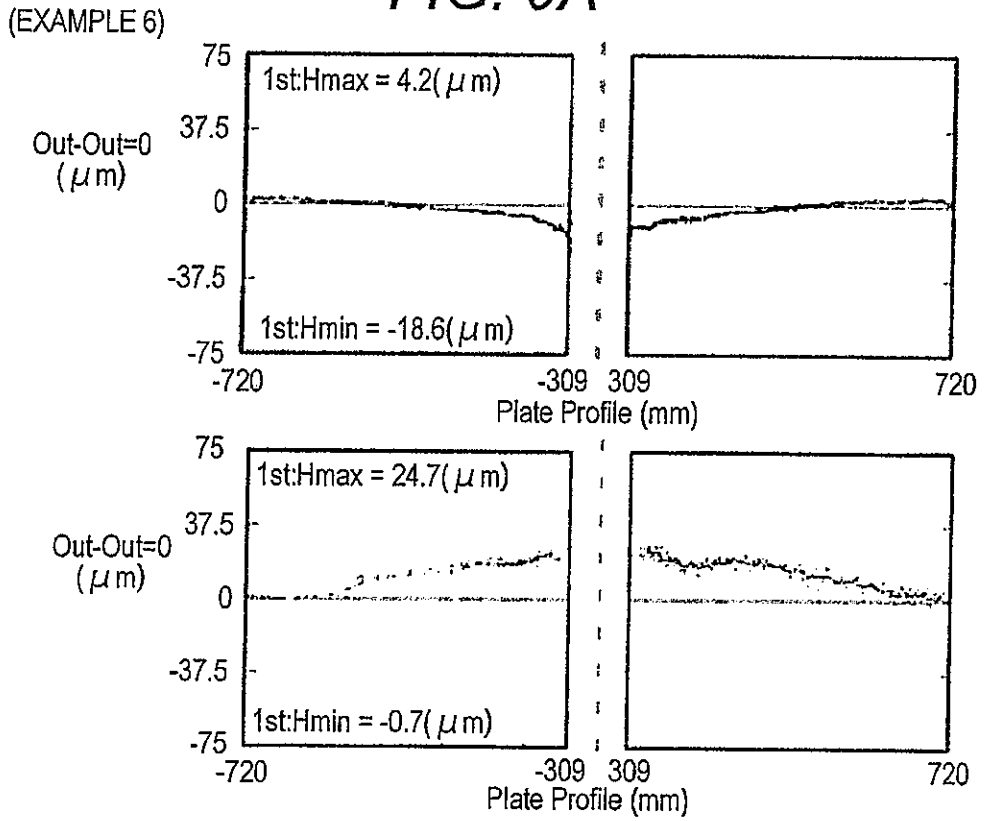

(EXAMPLE 6)
Out-Out=0 (μm)
75
37.5
0
-37.5
-75
1st:Hmax = 4.2(μm)
1st:Hmin = -18.6(μm)
-720
-309
309
720
Plate Profile (mm)
Out-Out=0 (μm)
1st:Hmax = 24.7(μm)
1st:Hmin = -0.7(μm)
Plate Profile (mm)

FIG. 9B

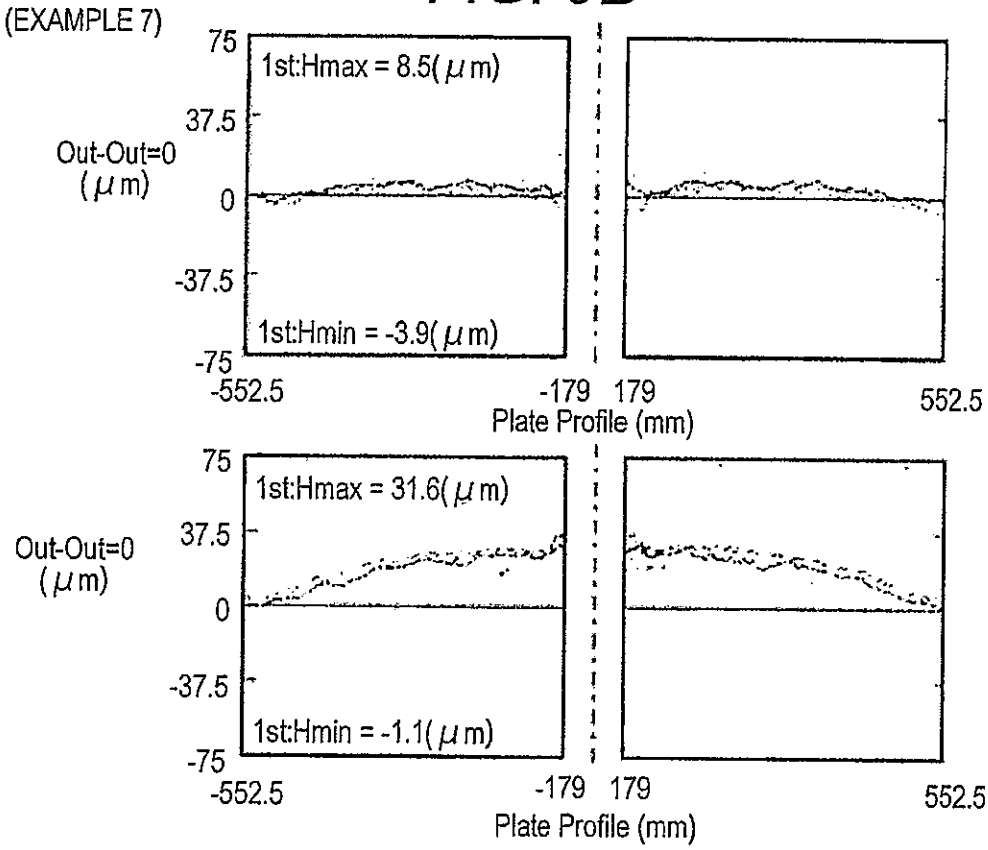

(EXAMPLE 7)
Out-Out=0 (μm)
75
37.5
0
-37.5
-75
1st:Hmax = 8.5(μm)
1st:Hmin = -3.9(μm)
-552.5
-179
179
552.5
Plate Profile (mm)
Out-Out=0 (μm)
1st:Hmax = 31.6(μm)
1st:Hmin = -1.1(μm)
Plate Profile (mm)

FIG. 9C

(EXAMPLE 8)

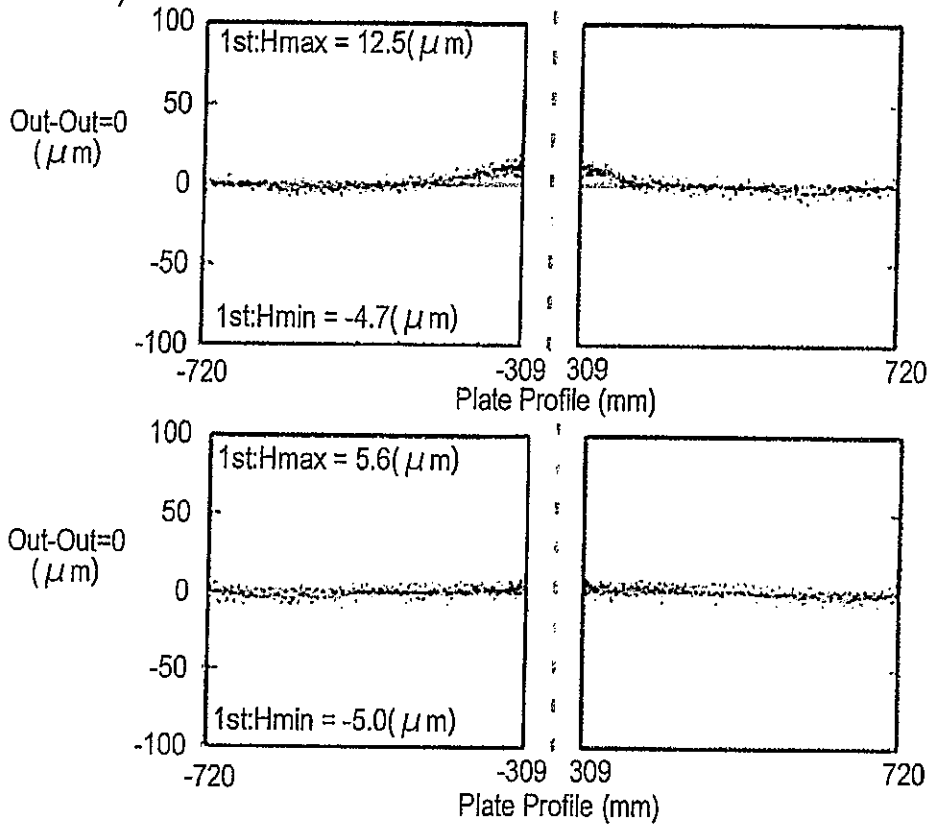


FIG. 9D

(EXAMPLE 9)

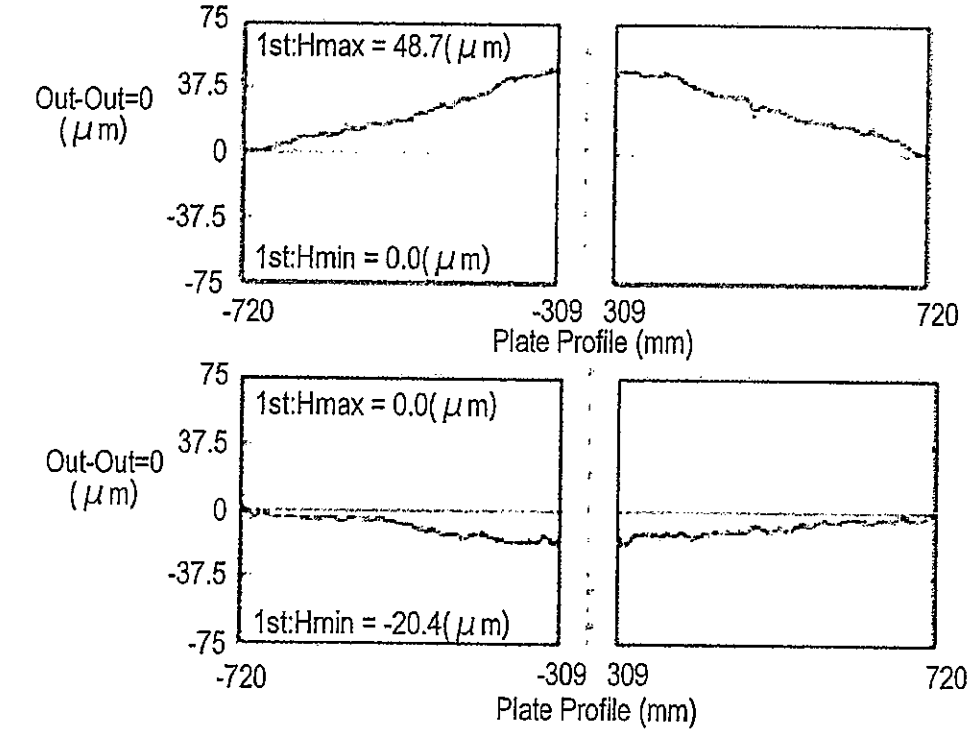


FIG. 10

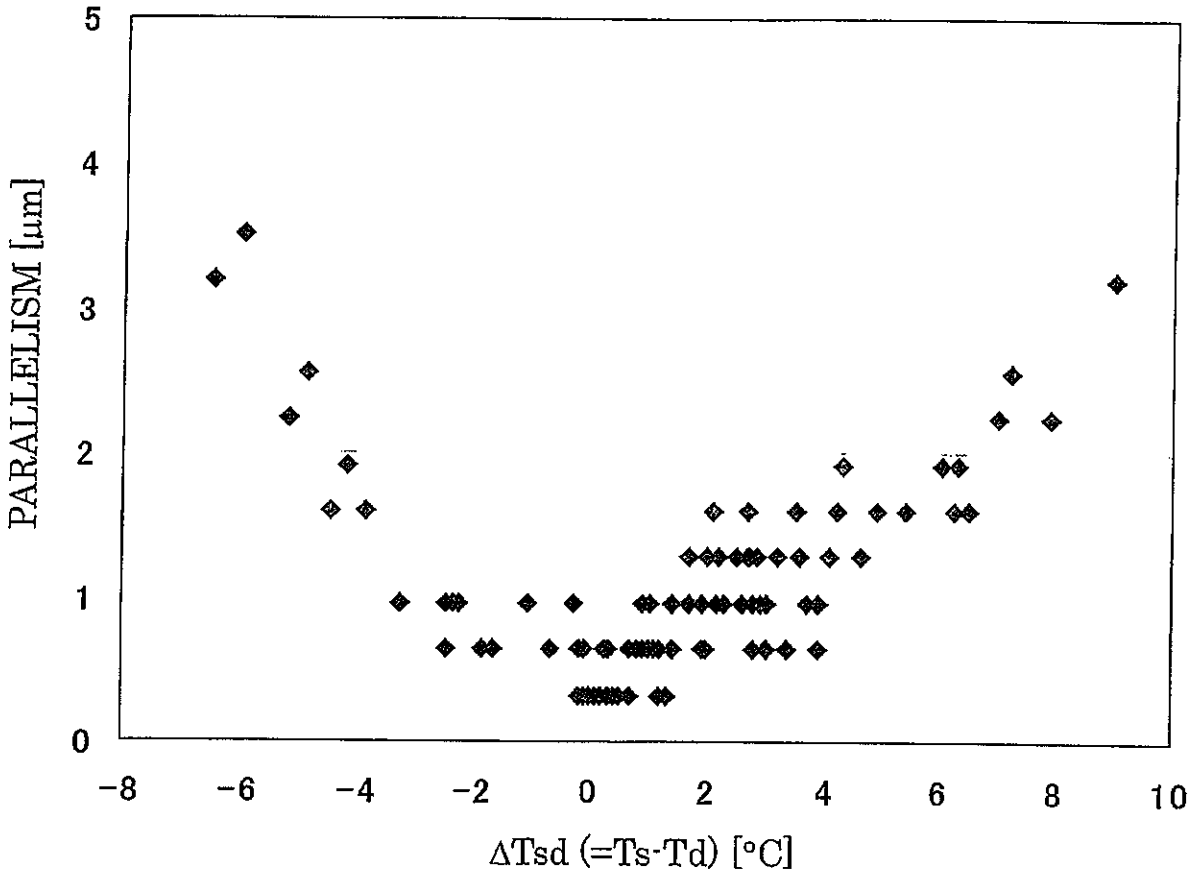
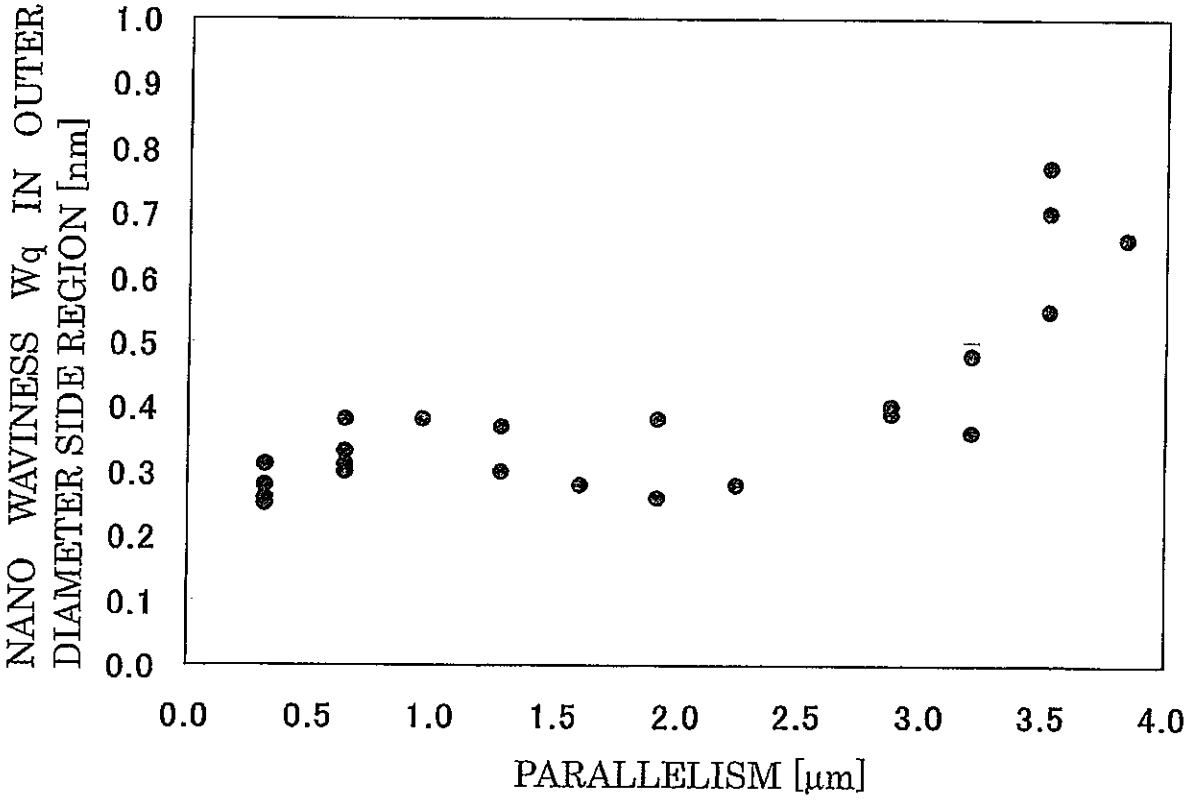


FIG. 11


NANO WAVINESS Wq IN OUTER DIAMETER SIDE REGION [nm]
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
PARALLELISM [μm]