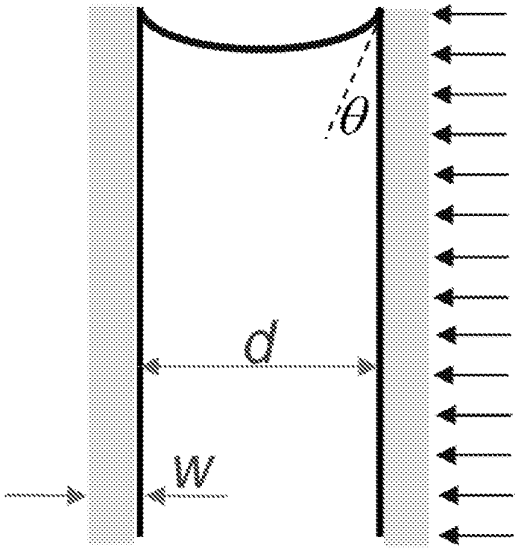

FIG. 1A

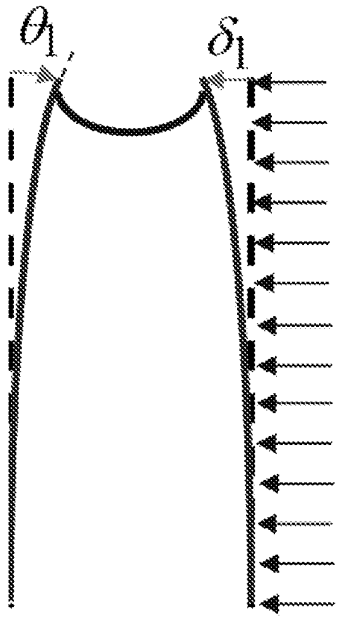

FIG. 1B

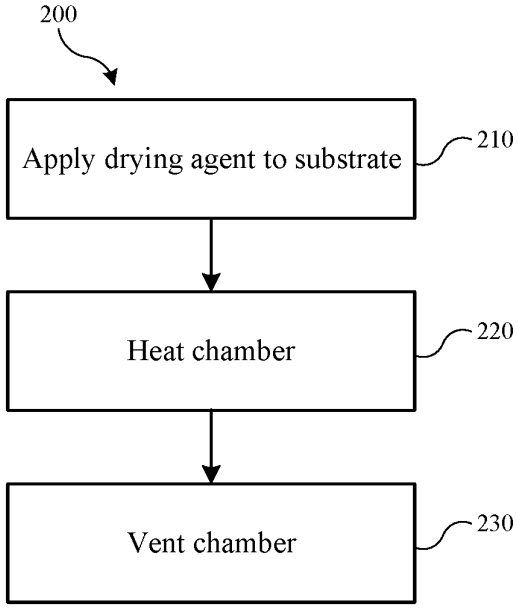

FIG. 2

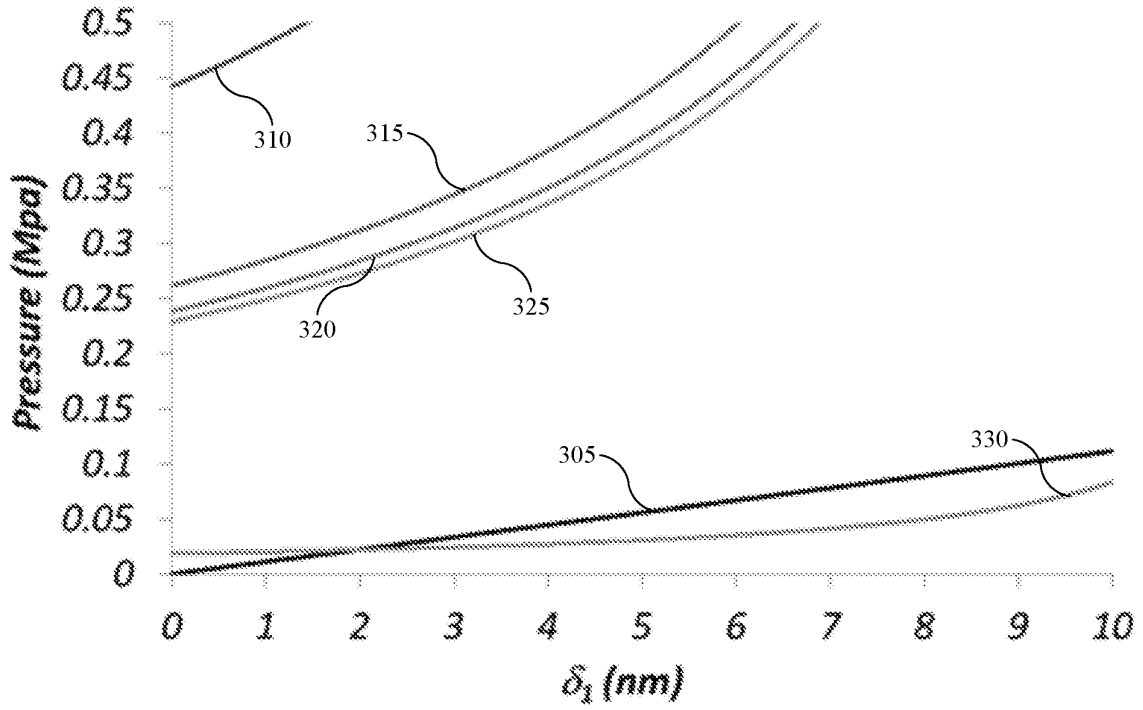
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Pressure (Mpa)
310
315
320
325
305
330
0 1 2 3 4 5 6 7 8 9 10
δ_1 (nm)

FIG. 3

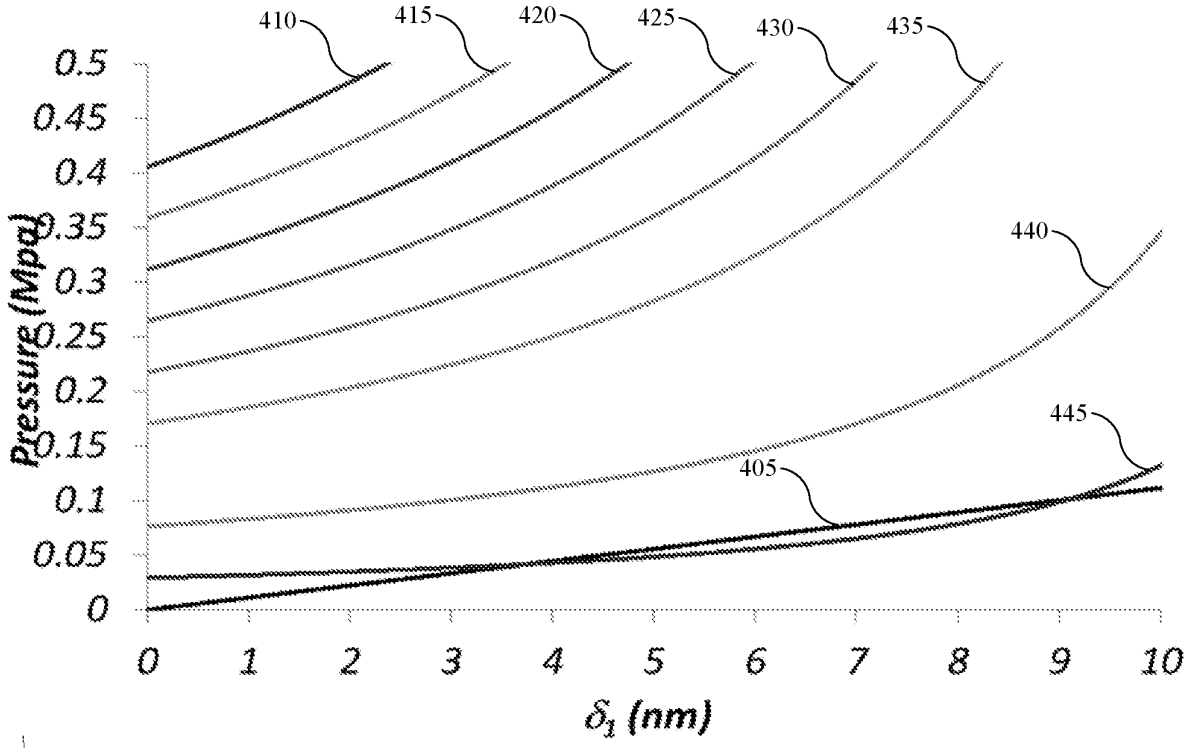
410
415
420
425
430
435
440
445
405
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
Pressure (Mpa)
0 1 2 3 4 5 6 7 8 9 10
δ_1 (nm)

FIG. 4

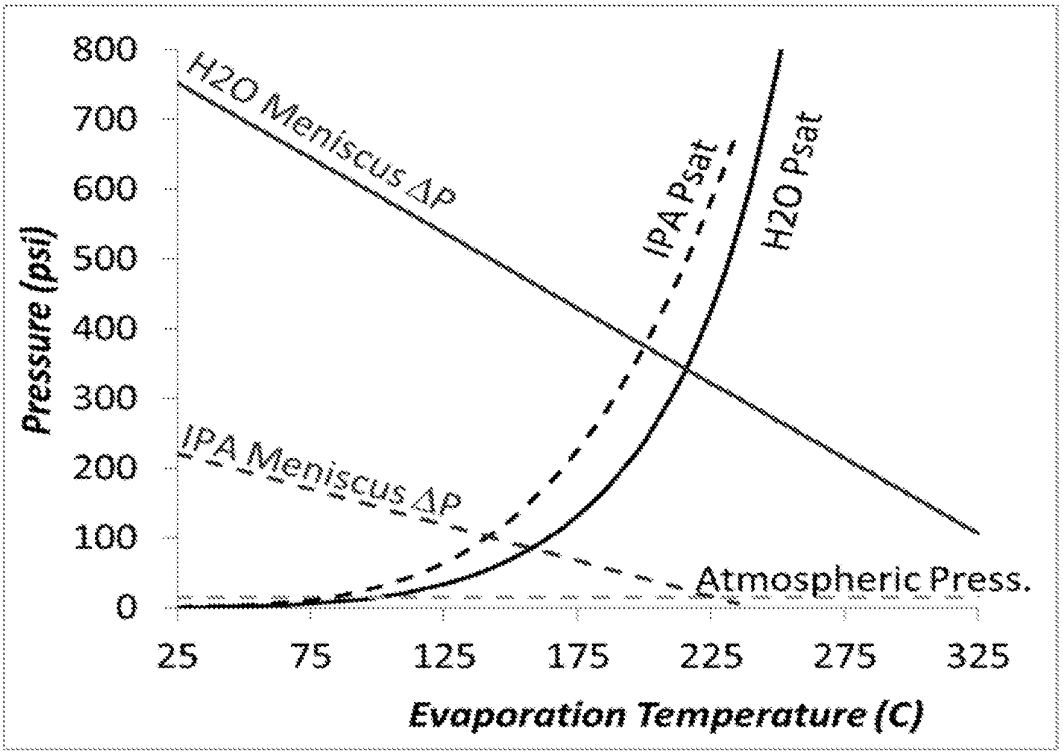
800
700
600
500
400
300
200
100
0
Pressure (psi)
H2O Meniscus ΔP
IPA Psat
H2O Psat
IPA Meniscus ΔP
Atmospheric Press.
25
75
125
175
225
275
325
Evaporation Temperature (C)

FIG. 5

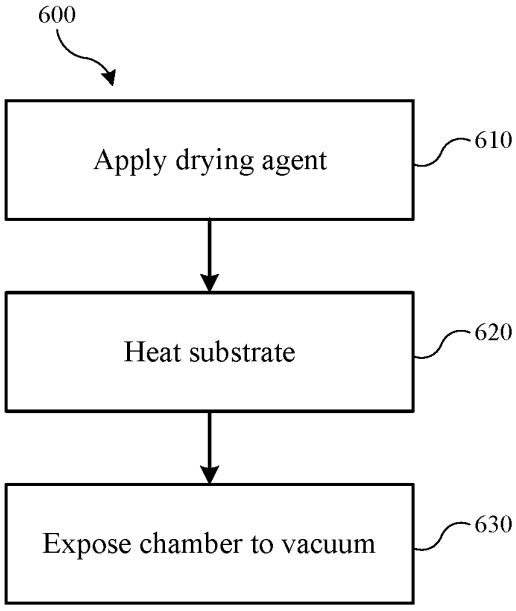
600
Apply drying agent
610
Heat substrate
620
Expose chamber to vacuum
630

FIG. 6

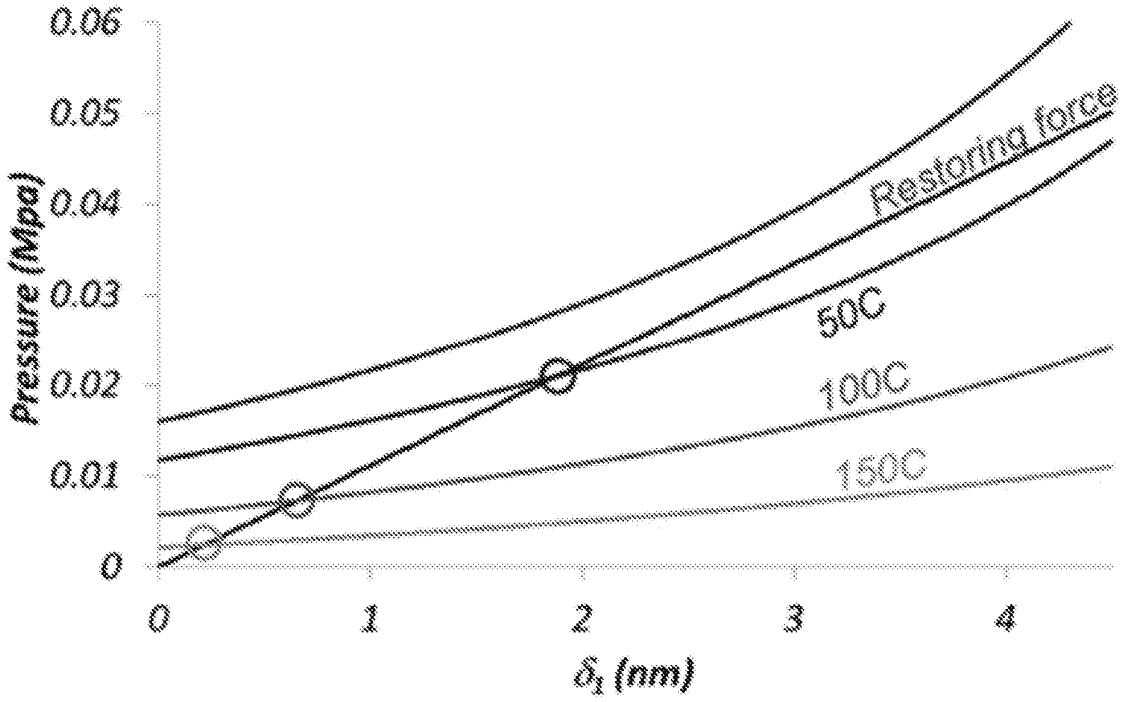
0.06
0.05
0.04
0.03
0.02
0.01
0
Pressure (Mpa)
Restoring force
50C
100C
150C
0
1
2
3
4
δ_1 (nm)

FIG. 7