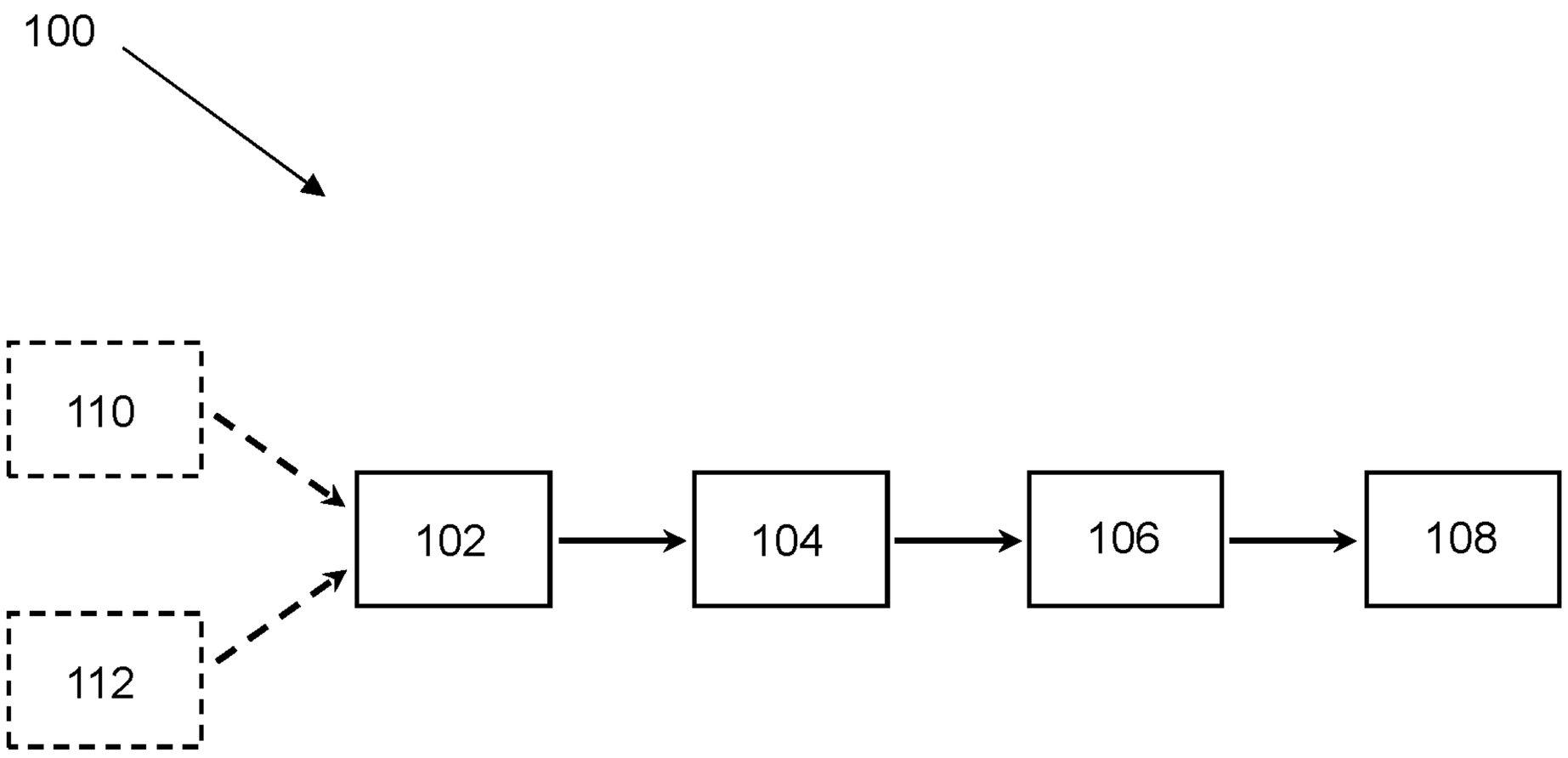


FIG. 1

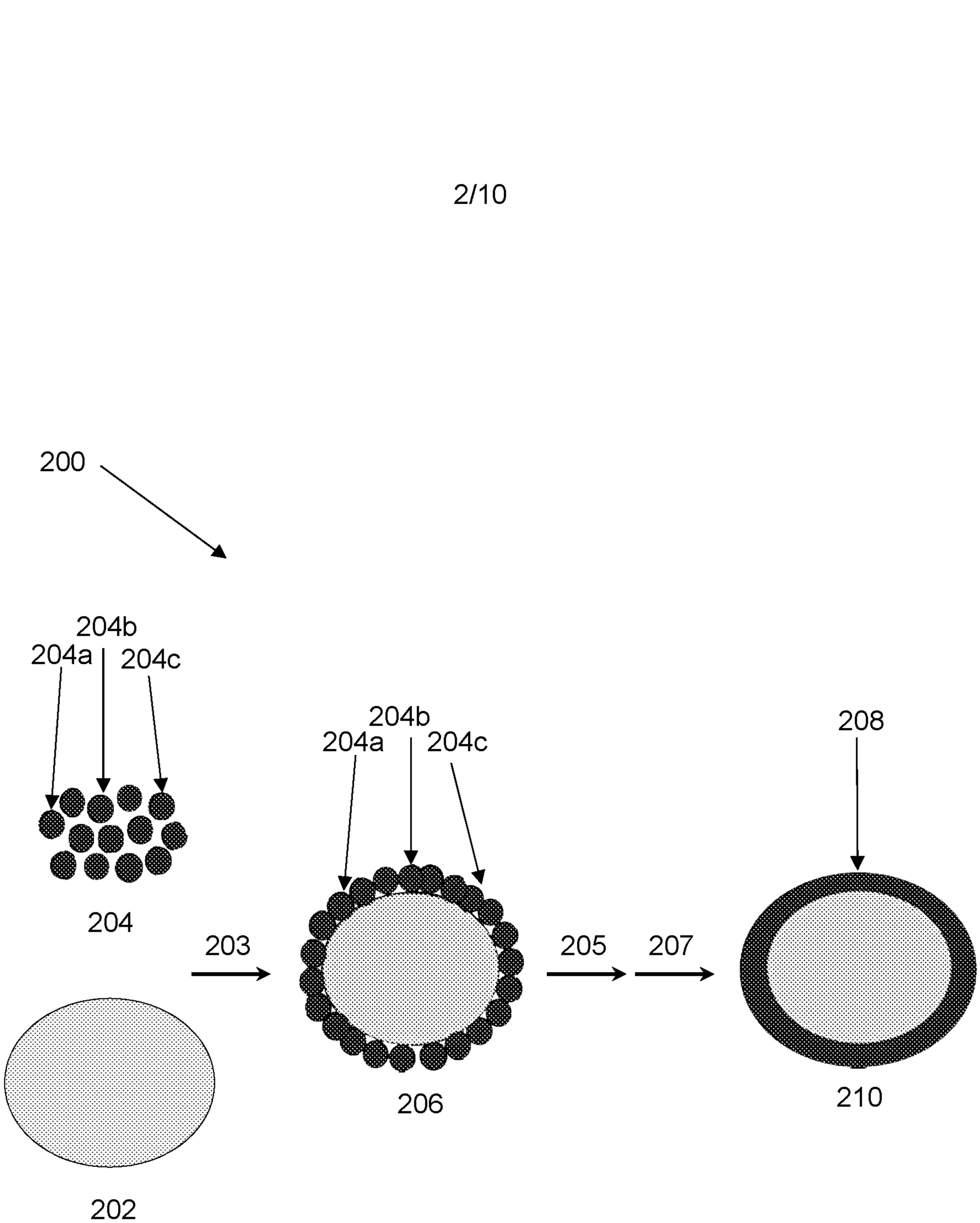

200
204b
204a
204c
204
203
202
204b
204a
204c
206
205
207
208
210

FIG. 2

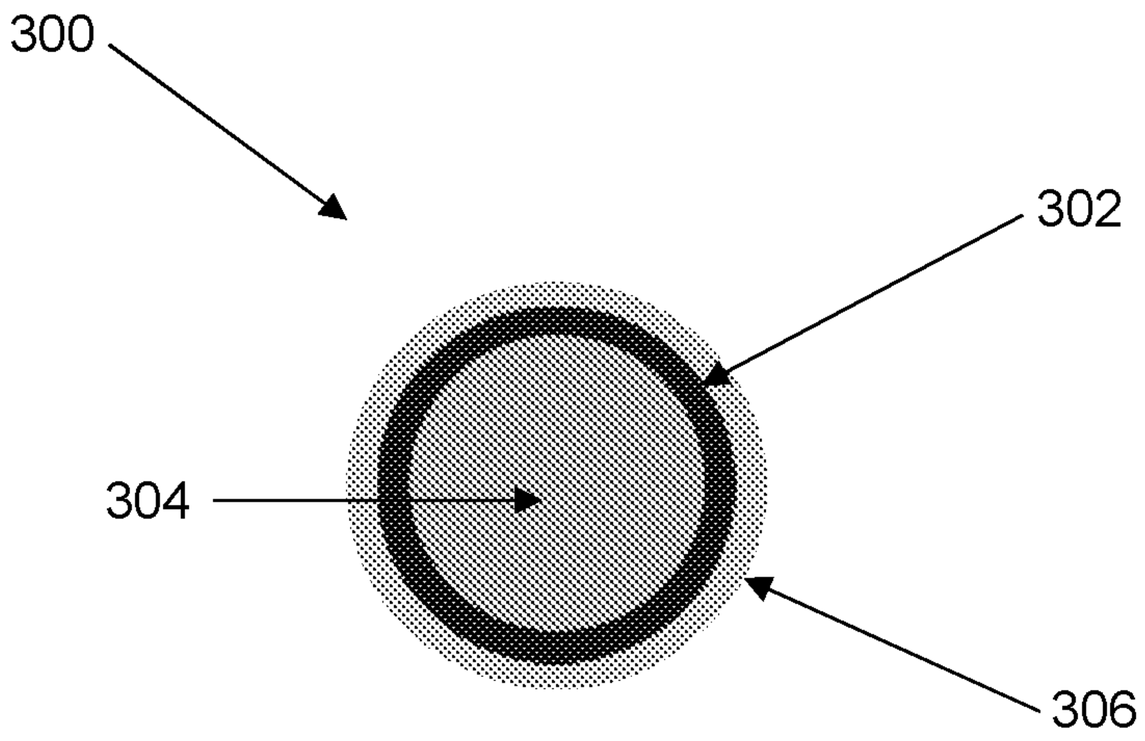


FIG. 3

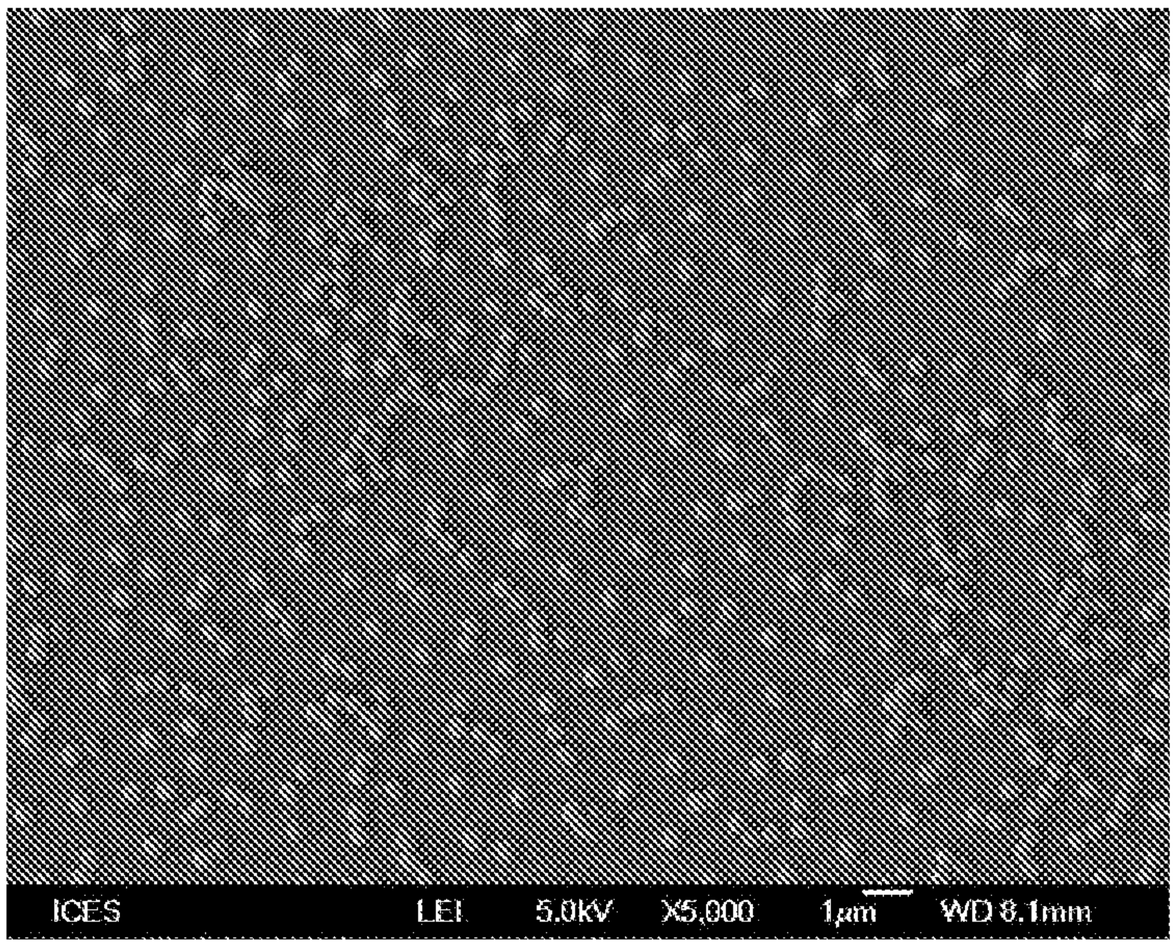

ICES
LEI
5.0kV
X5,000
1μm
WD 8.1mm

FIG. 4A

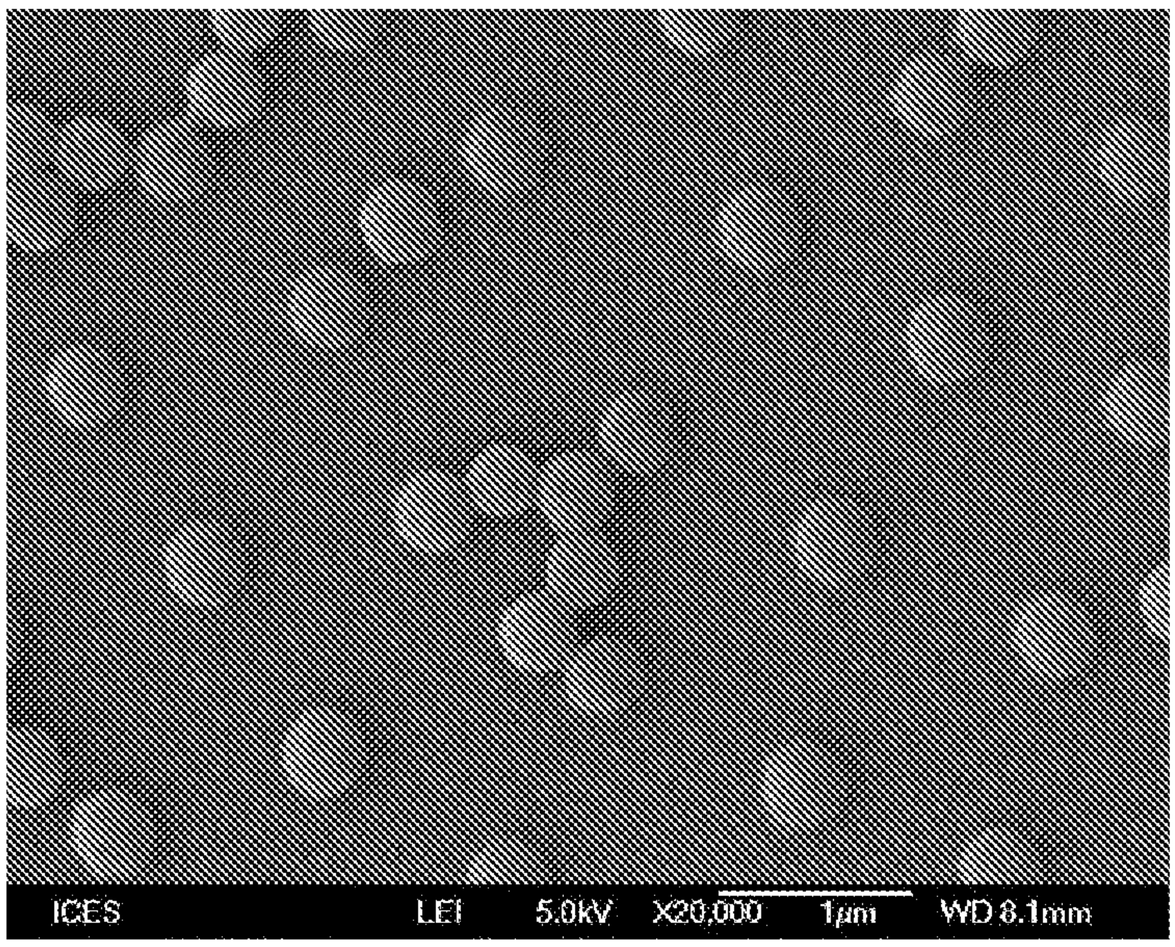

ICES
LEI
5.0kV
X20,000
1μm
WD 8.1mm

FIG. 4B

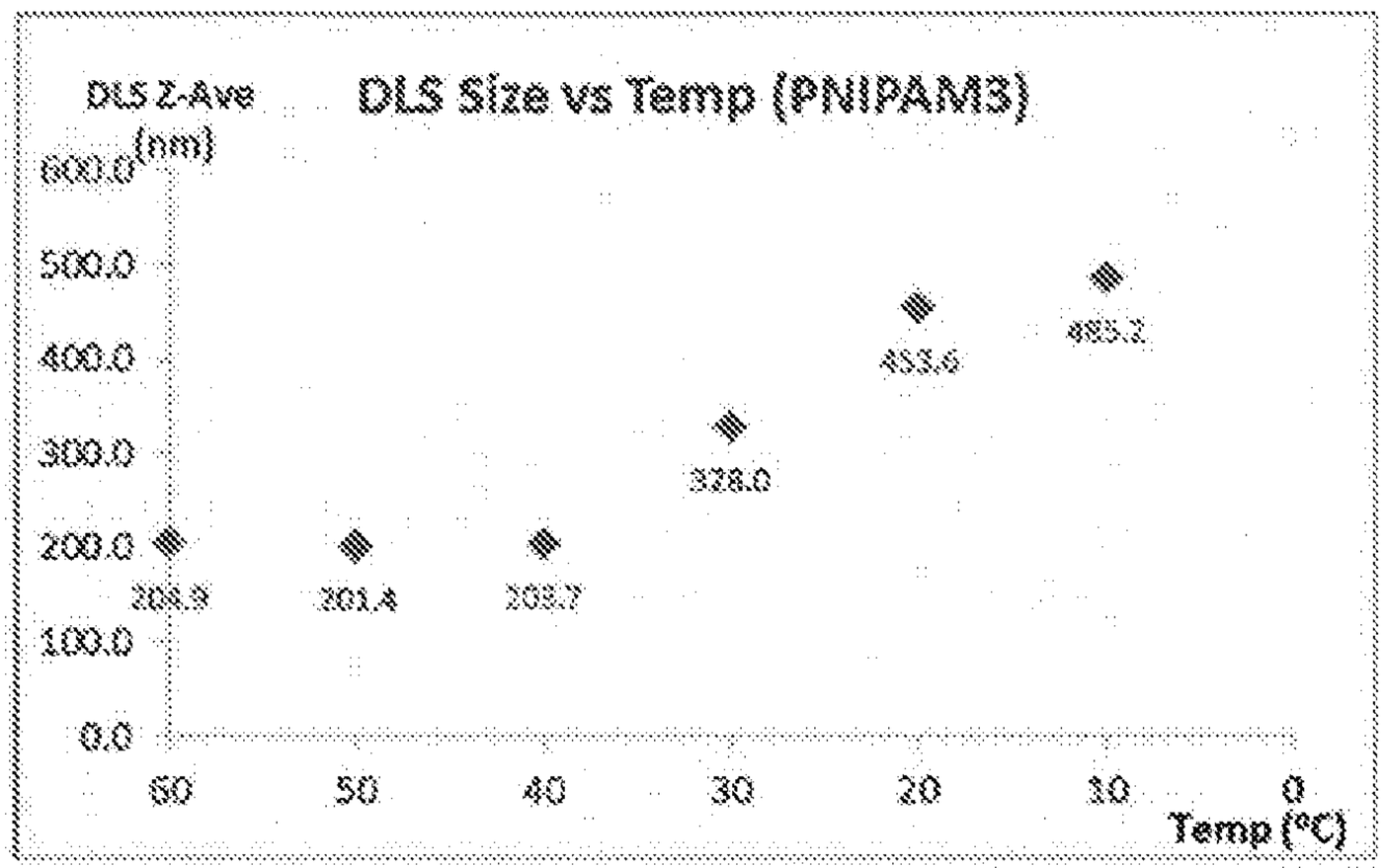

DLS Z-Ave (nm)
DLS Size vs Temp (PNIPAM3)
600.0
500.0
400.0
300.0
200.0
100.0
0.0
208.9
201.4
208.7
328.0
433.6
485.2
60
50
40
30
20
10
0
Temp (°C)

FIG. 5

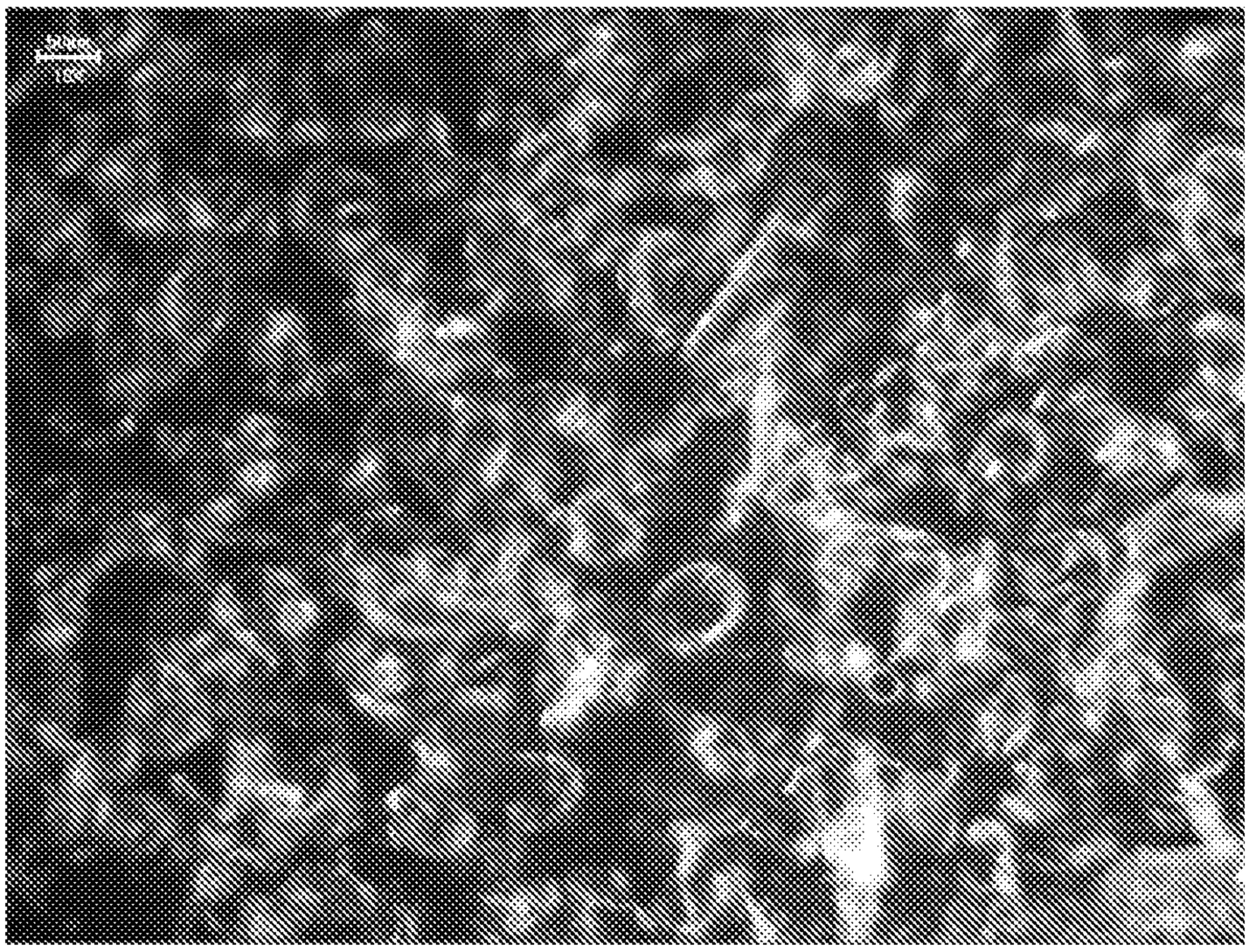


FIG. 6A

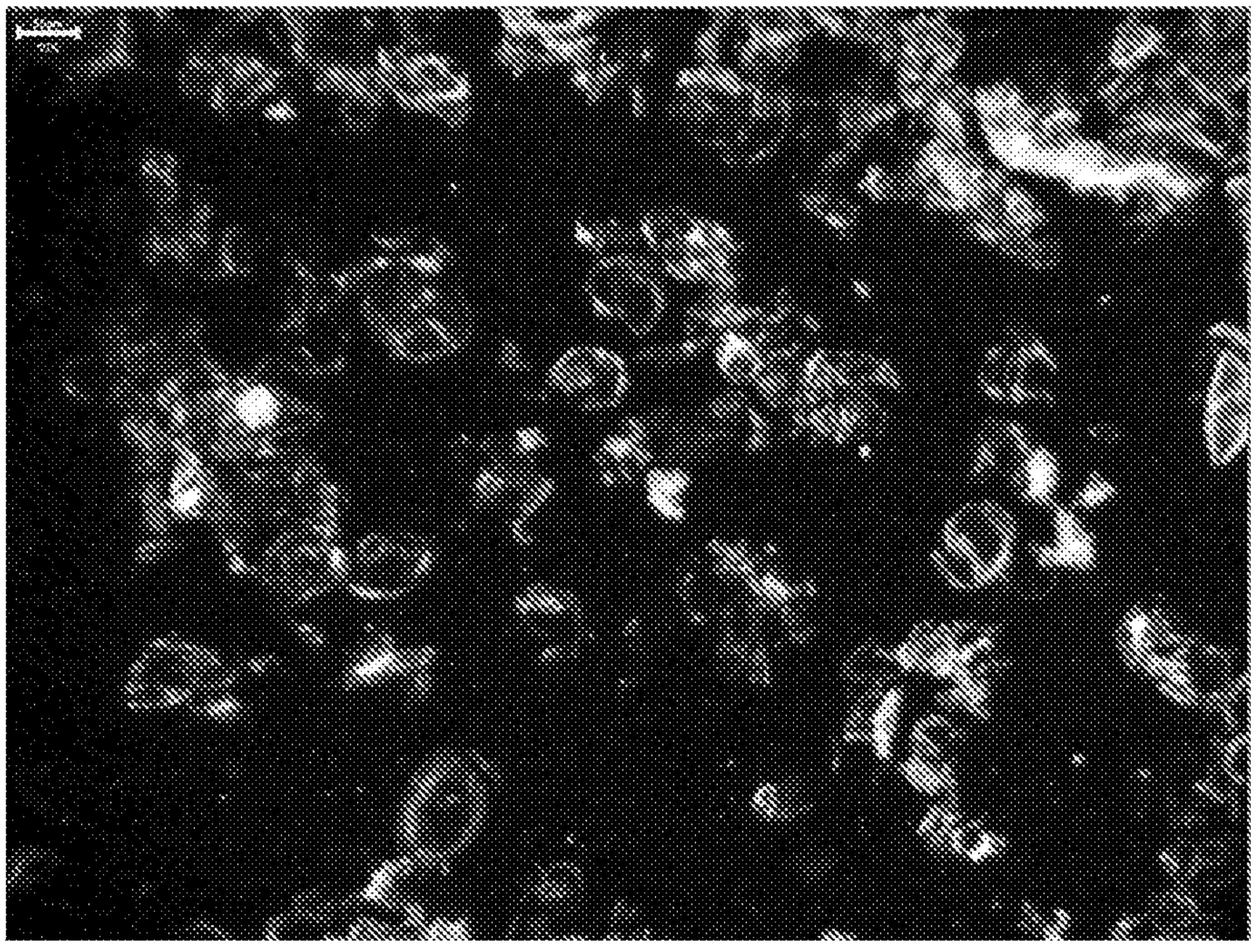


FIG. 6B

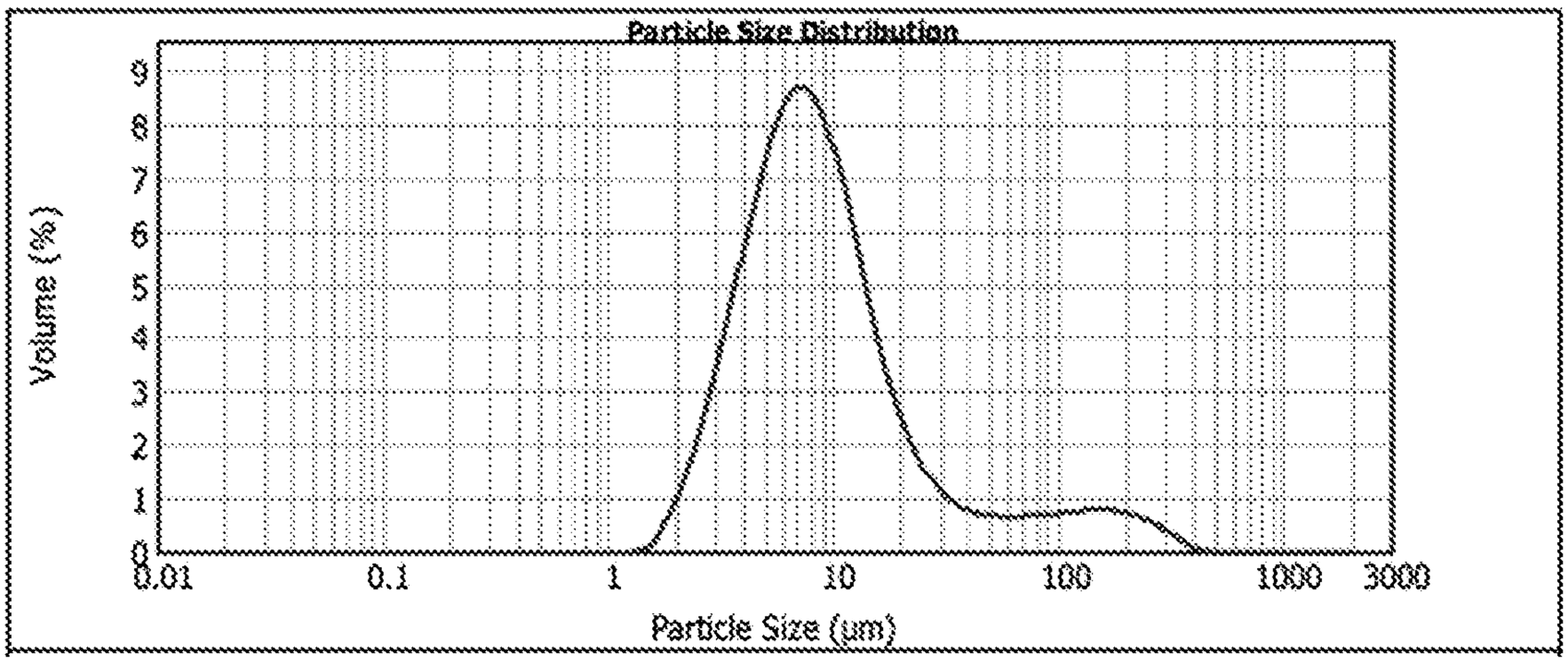

Particle Size Distribution
Volume (%)
0
1
2
3
4
5
6
7
8
9
0.01
0.1
1
10
100
1000
3000
Particle Size (µm)

FIG. 7

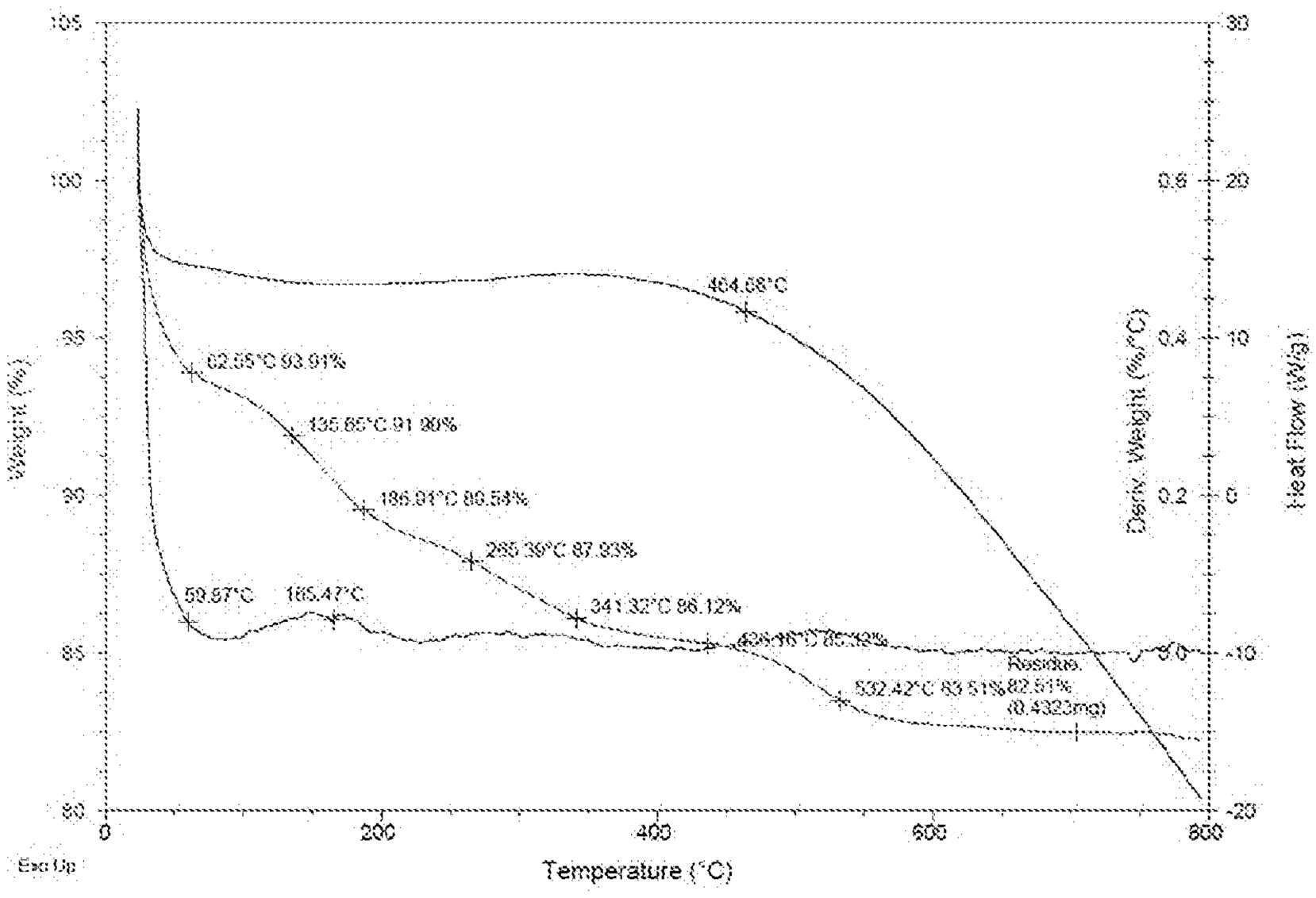

105
100
95
90
85
80
Weight (%)
0
200
400
600
800
Temperature (°C)
30
20
10
0
-10
-20
Heat Flow (W/g)
0.4
0.2
0.0
Deriv. Weight (%/°C)
62.55°C 93.91%
135.65°C 91.98%
186.91°C 89.54%
285.39°C 87.93%
341.32°C 86.12%
59.57°C
165.47°C
464.08°C
532.42°C 83.51%
Residue
82.51%
(0.4323mg)
Exo Up
Universal V3.5A TA Instruments

FIG. 8A

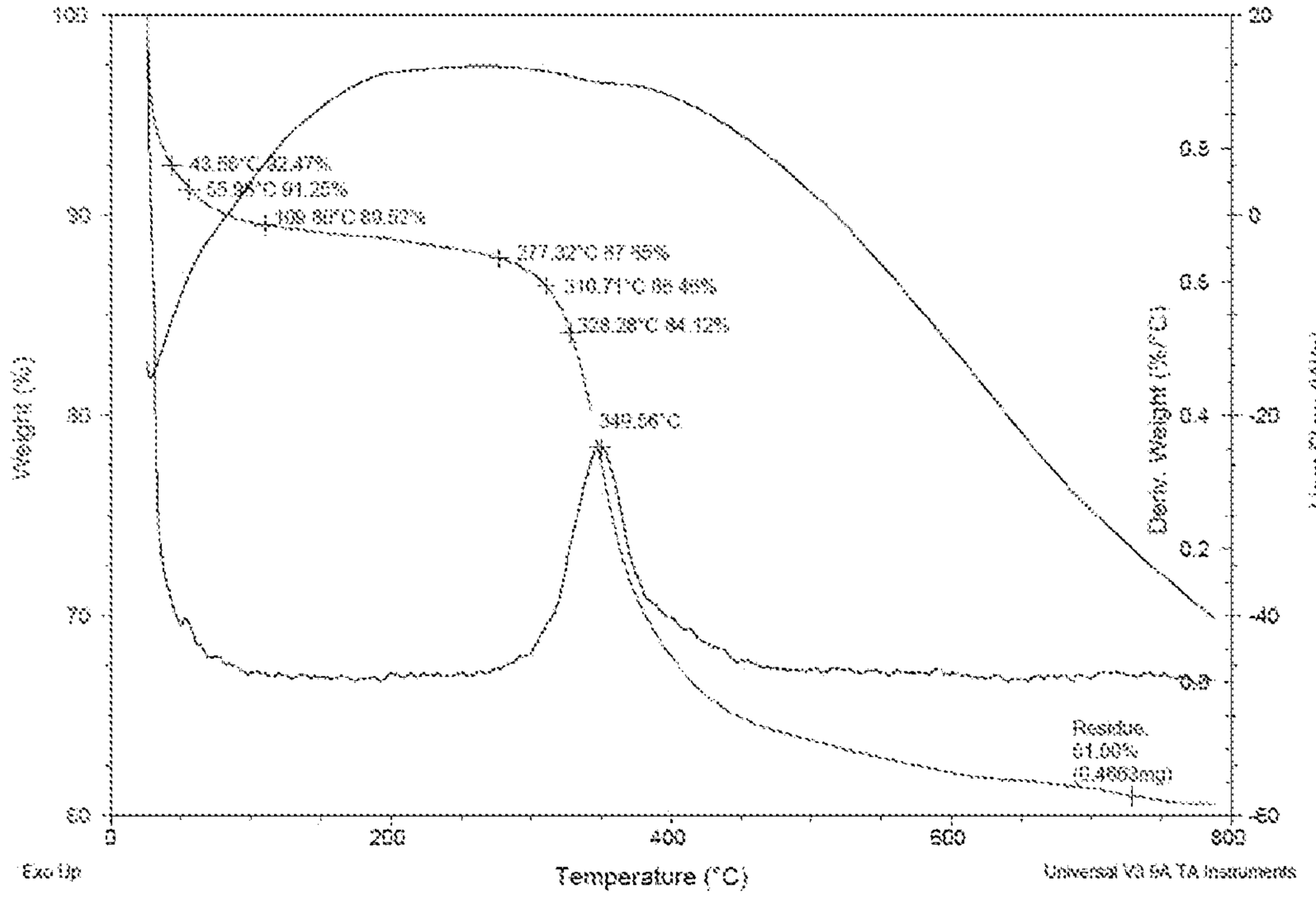

100
90
80
70
60
Weight (%)
0
200
400
600
800
Temperature (°C)
20
0
-20
-40
-60
Heat Flow (W/g)
0.8
0.6
0.4
0.2
0.0
Deriv. Weight (%/°C)
43.58°C 92.47%
55.95°C 91.25%
109.80°C 89.52%
277.32°C 87.85%
310.71°C 86.46%
329.28°C 84.12%
389.56°C
Residue
81.00%
(0.4863mg)
Exo Up
Universal V3.5A TA Instruments

FIG. 8B

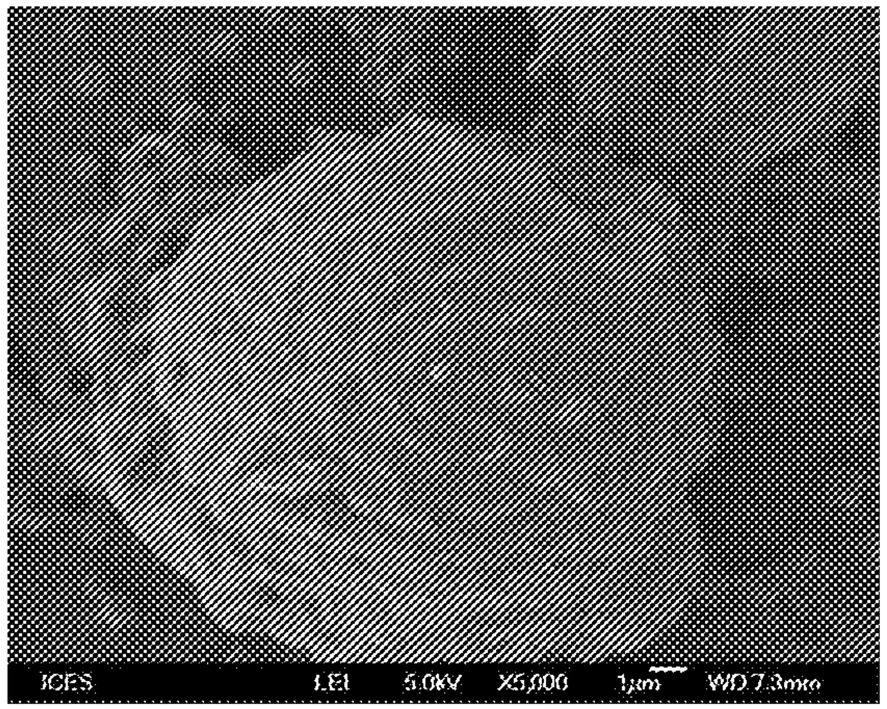


FIG. 9A

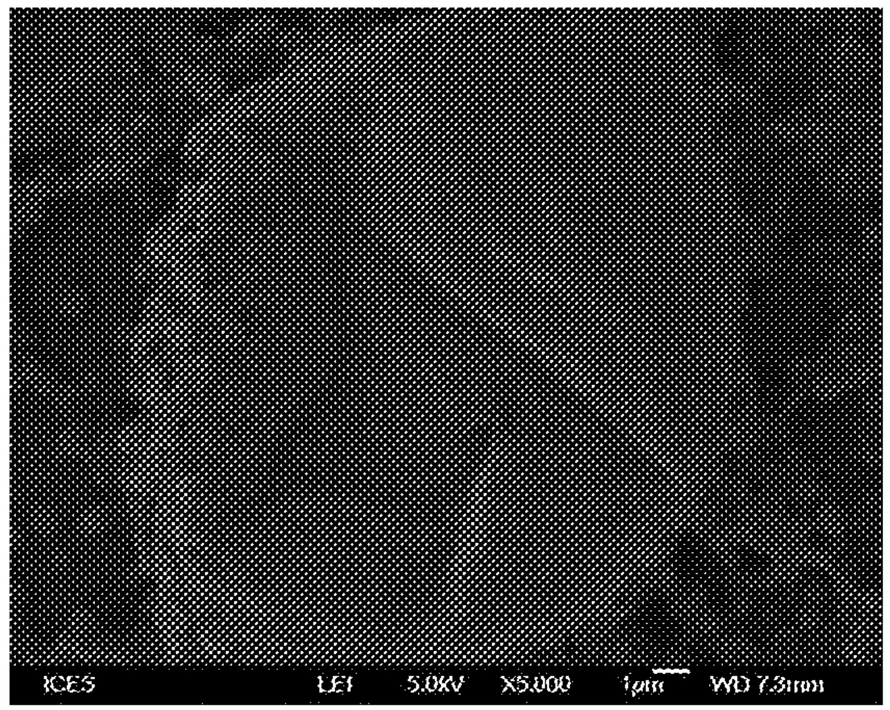


FIG. 9B

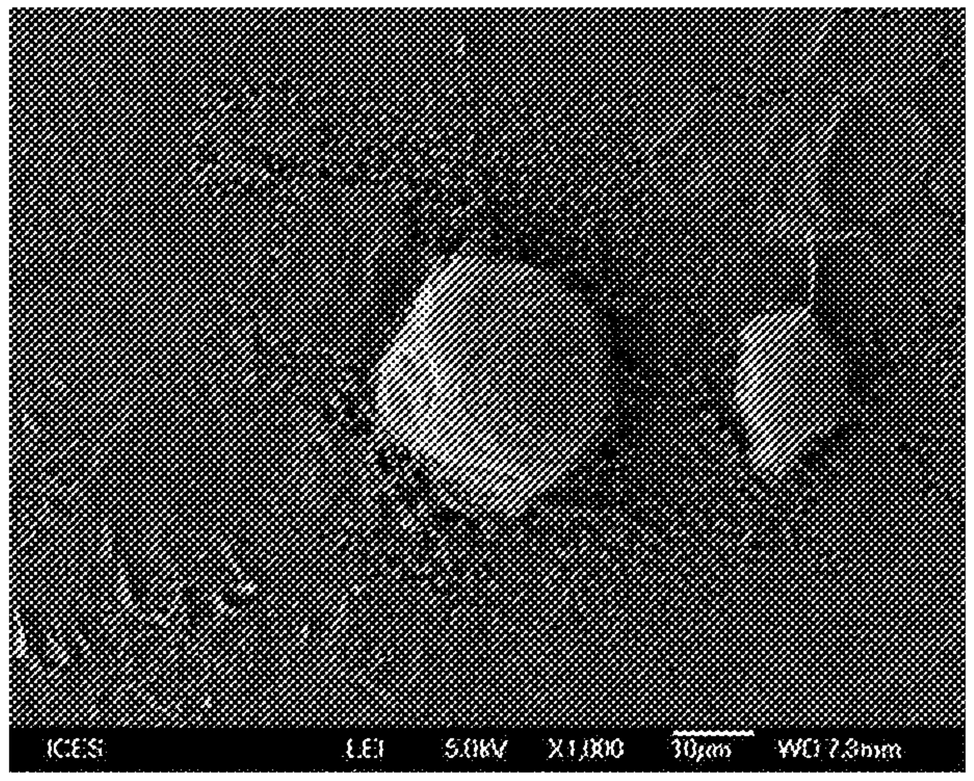


FIG. 9C

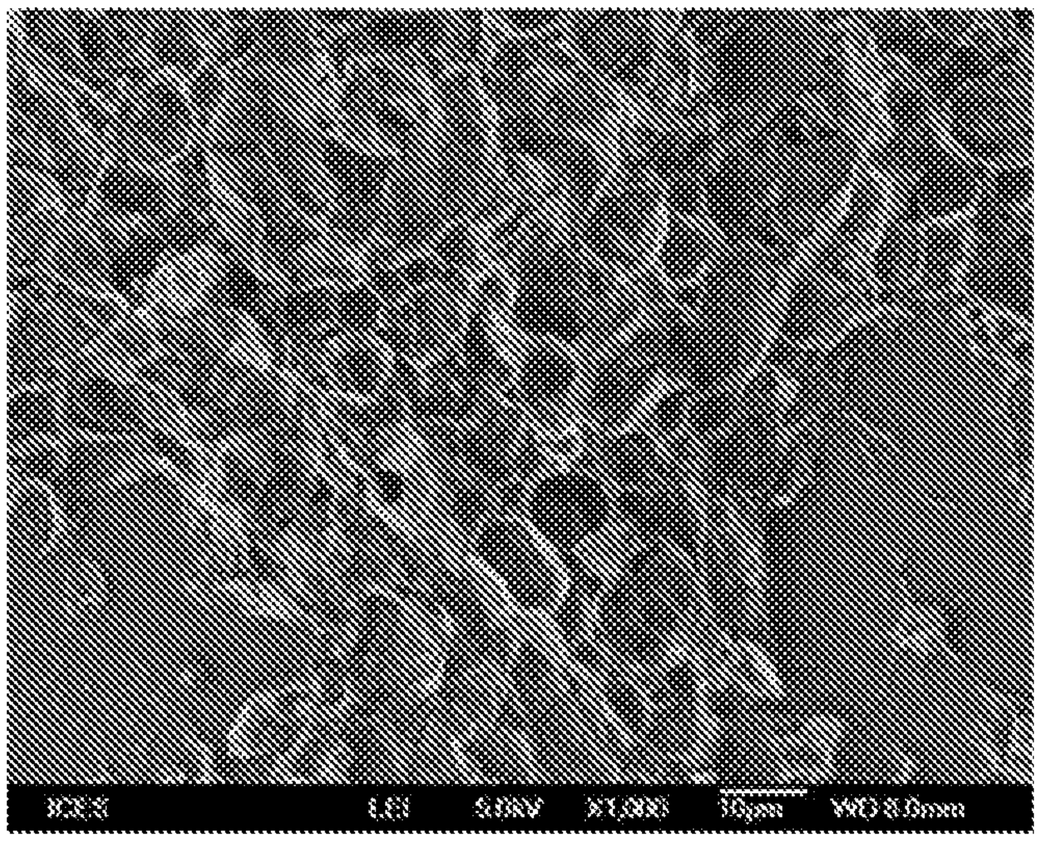


FIG. 10A

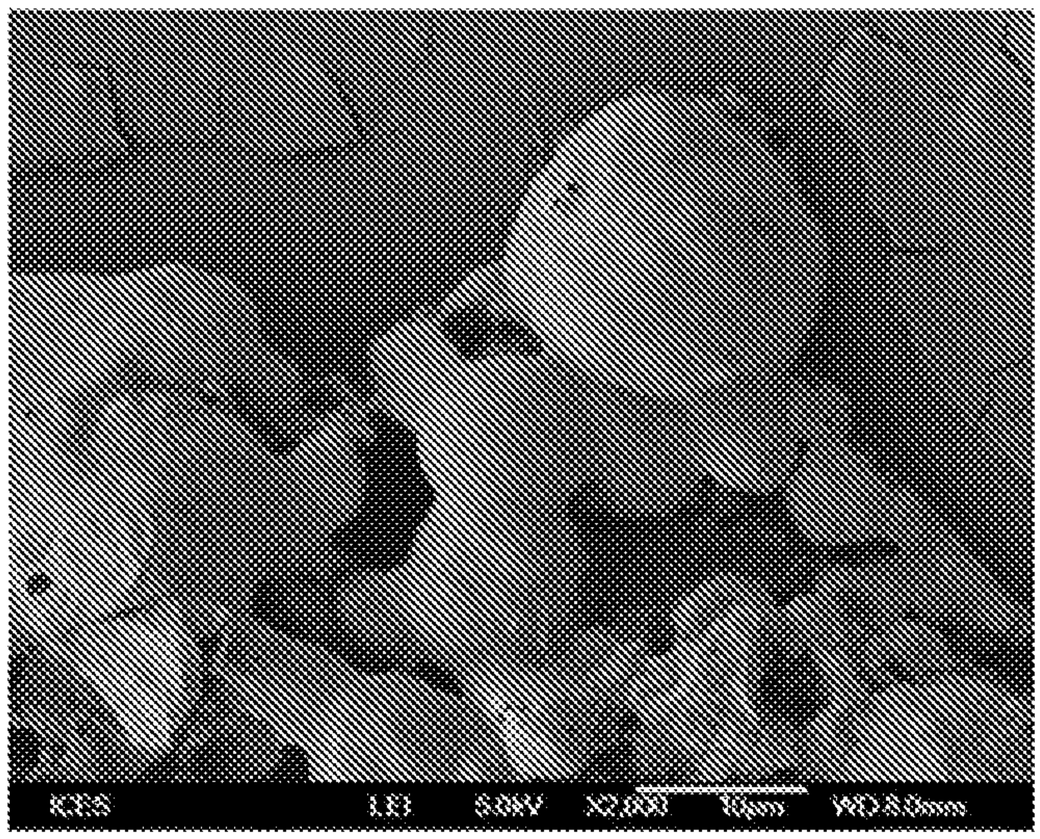


FIG. 10B