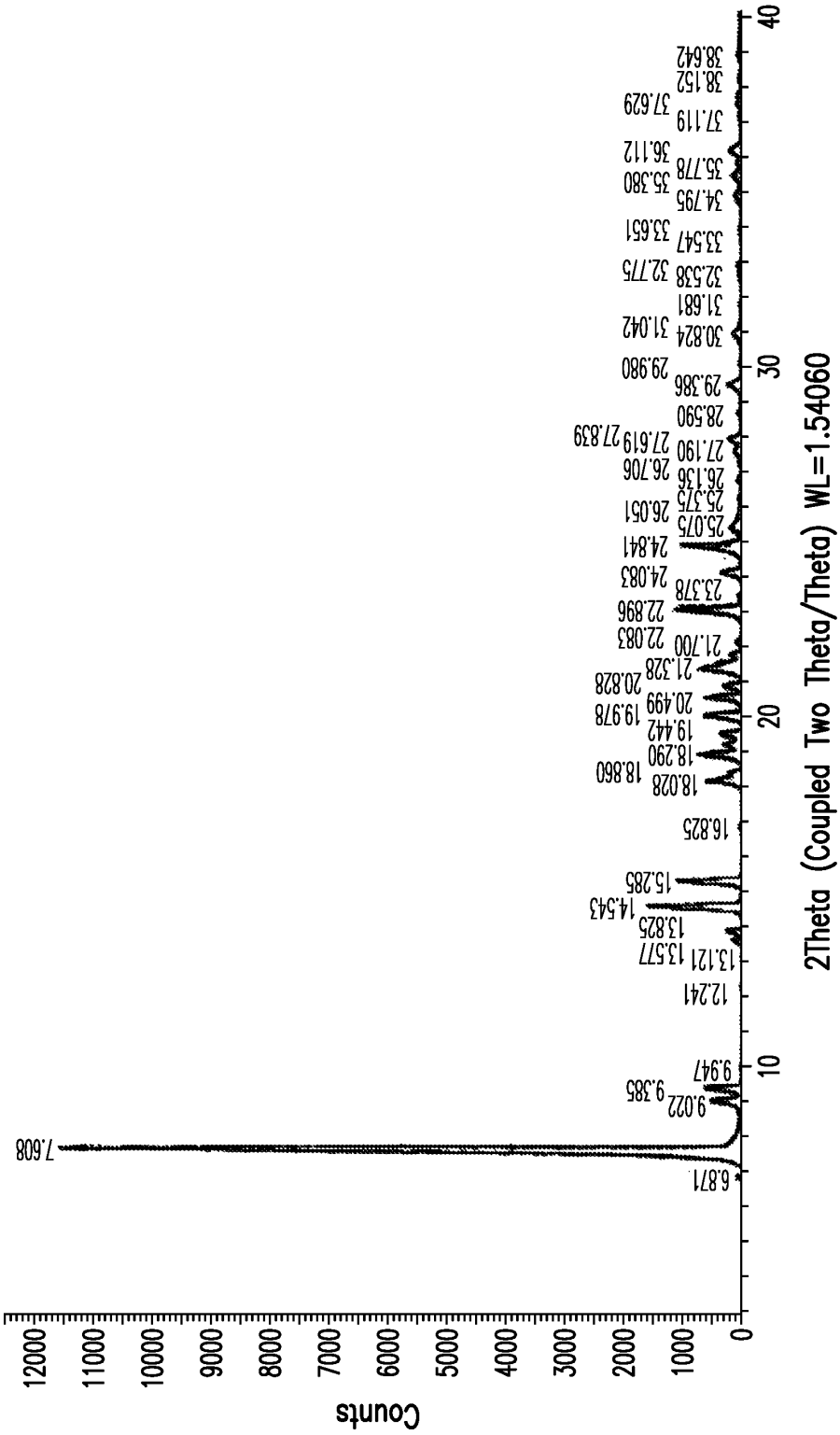

Counts
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
10
20
30
40
2Theta (Coupled Two Theta/Theta) WL=1.54060
7.608
6.871
9.022
9.385
9.947
12.241
13.121
13.577
13.825
14.543
15.285
16.825
18.028
18.290
18.860
19.442
19.978
20.499
20.828
21.328
21.700
22.083
22.896
23.378
24.083
24.841
25.075
25.375
26.051
26.136
26.706
27.190
27.619
27.839
28.590
29.386
29.980
30.824
31.042
31.681
32.538
32.775
33.547
33.651
34.795
35.380
35.778
36.112
37.119
37.629
38.152
38.642

FIG. 1

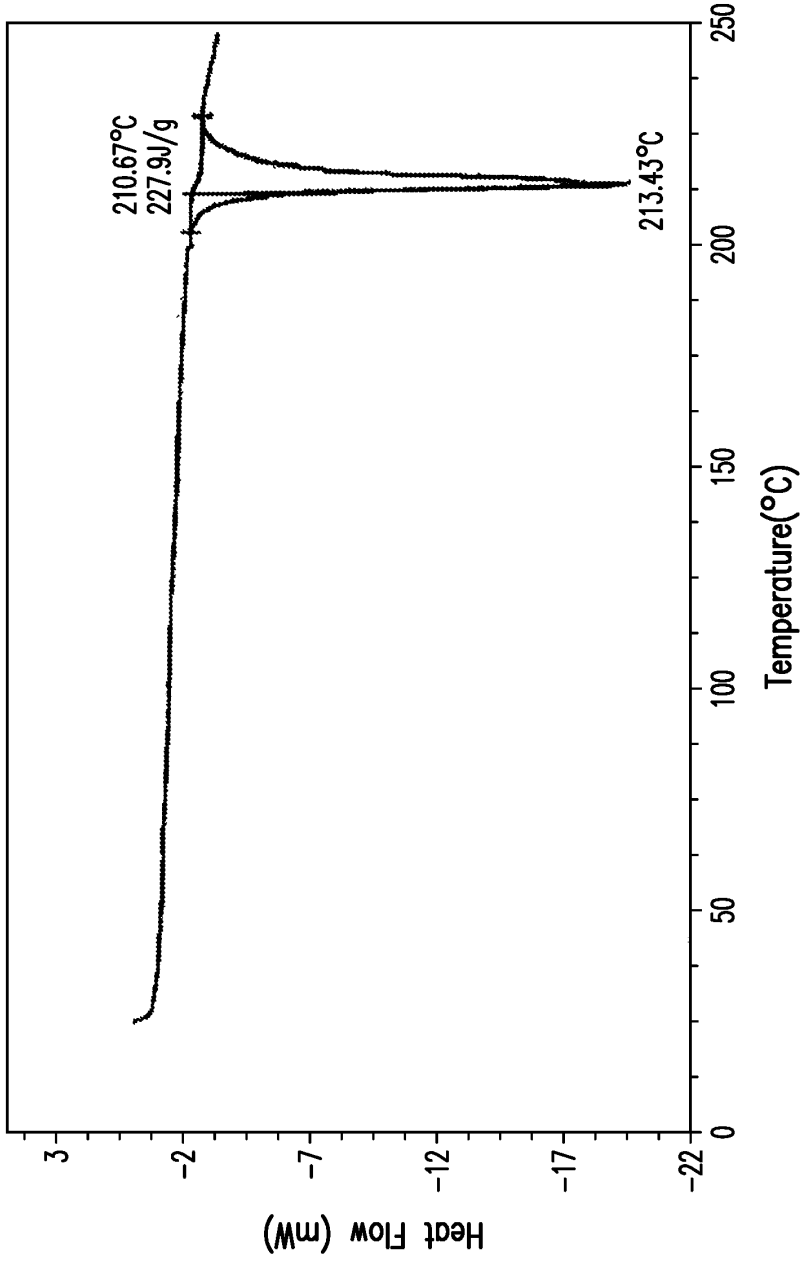

210.67°C
227.9J/g
213.43°C
Heat Flow (mW)
3
-2
-7
-12
-17
-22
0
50
100
150
200
250
Temperature(°C)

FIG. 2

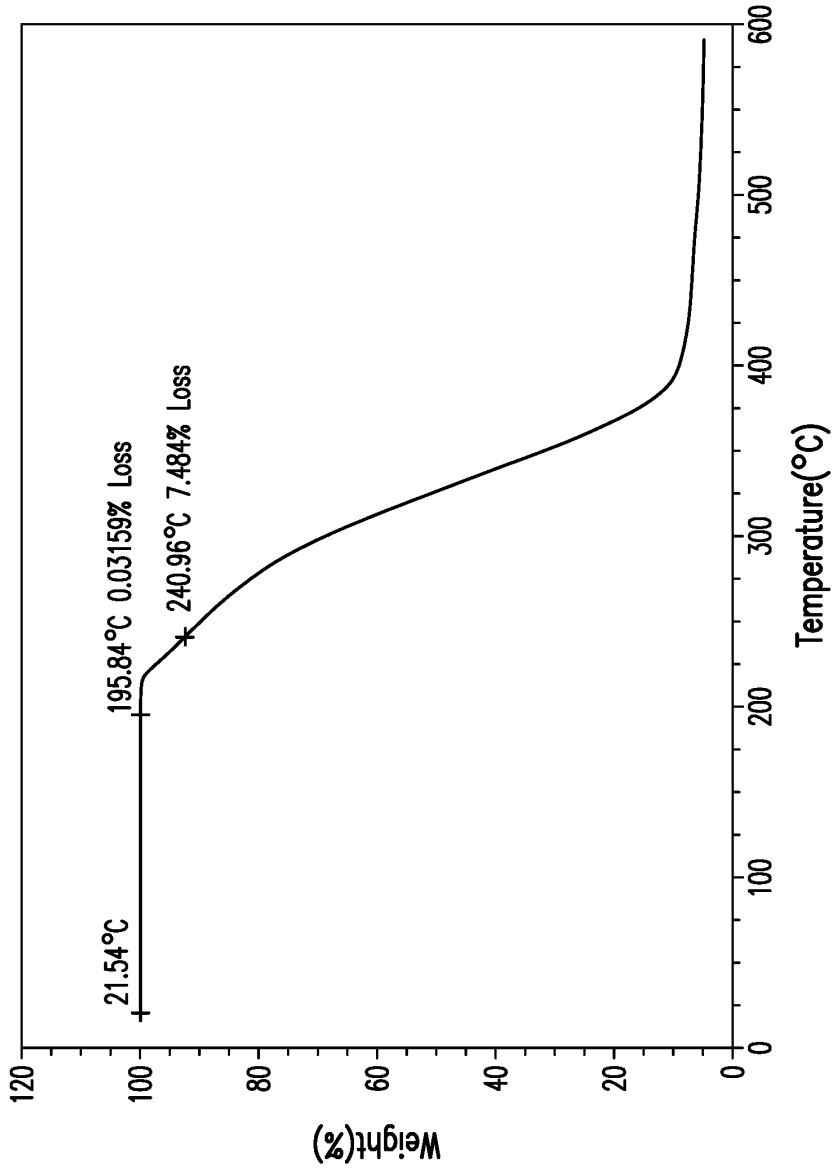

Weight(%)
120
100
80
60
40
20
0
0
100
200
300
400
500
600
Temperature(°C)
21.54°C
195.84°C 0.03159% Loss
240.96°C 7.484% Loss

FIG. 3

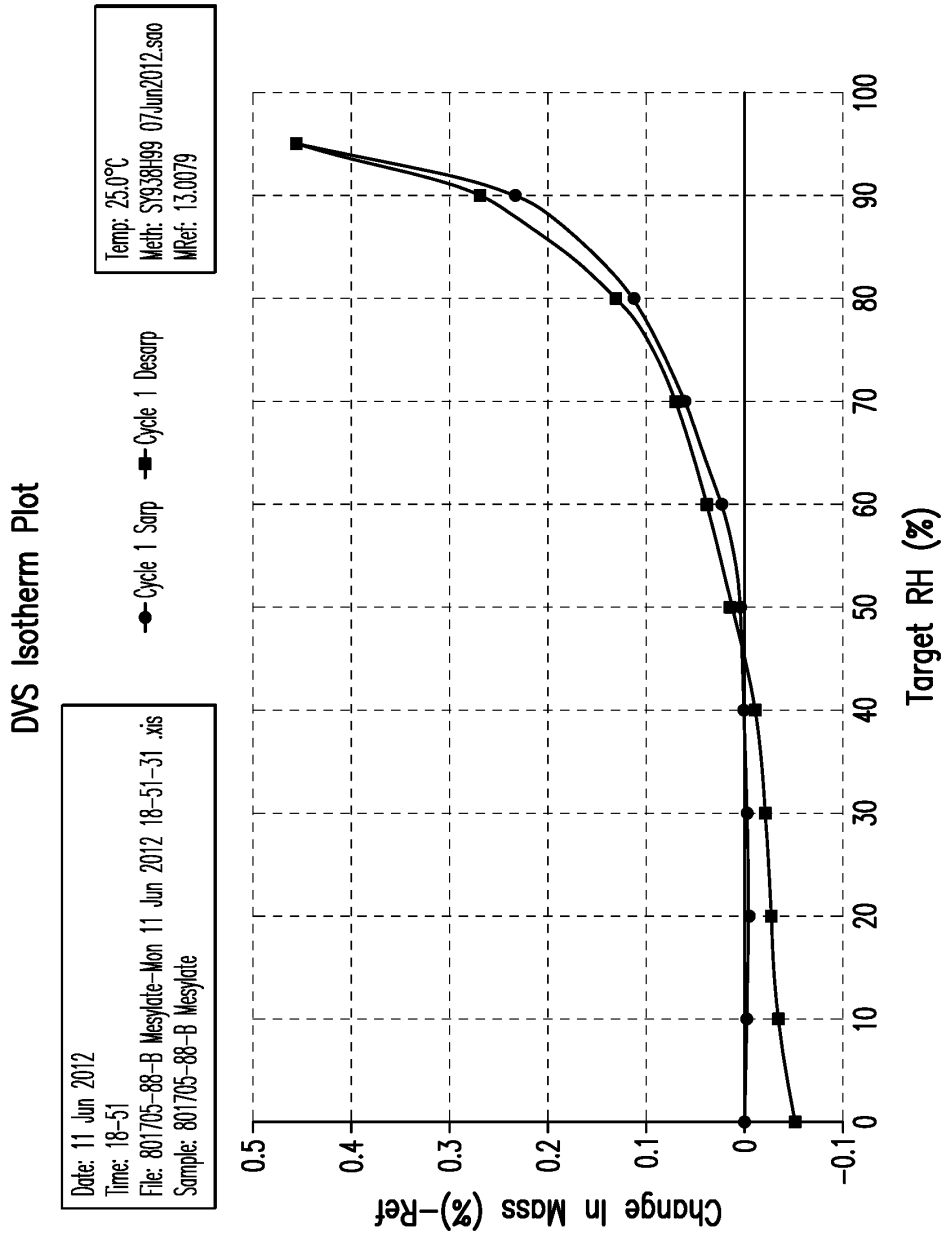

DVS Isotherm Plot
Date: 11 Jun 2012
Time: 18-51
File: 801705-88-B Mesylate-Mon 11 Jun 2012 18-51-31 .xis
Sample: 801705-88-B Mesylate
Cycle 1 Sorp
Cycle 1 Desorp
Temp: 25.0°C
Meth: SY938H99 07Jun2012.sao
MRef: 13.0079
Change In Mass (%)-Ref
0.5
0.4
0.3
0.2
0.1
0
-0.1
0
10
20
30
40
50
60
70
80
90
100
Target RH (%)

FIG. 4

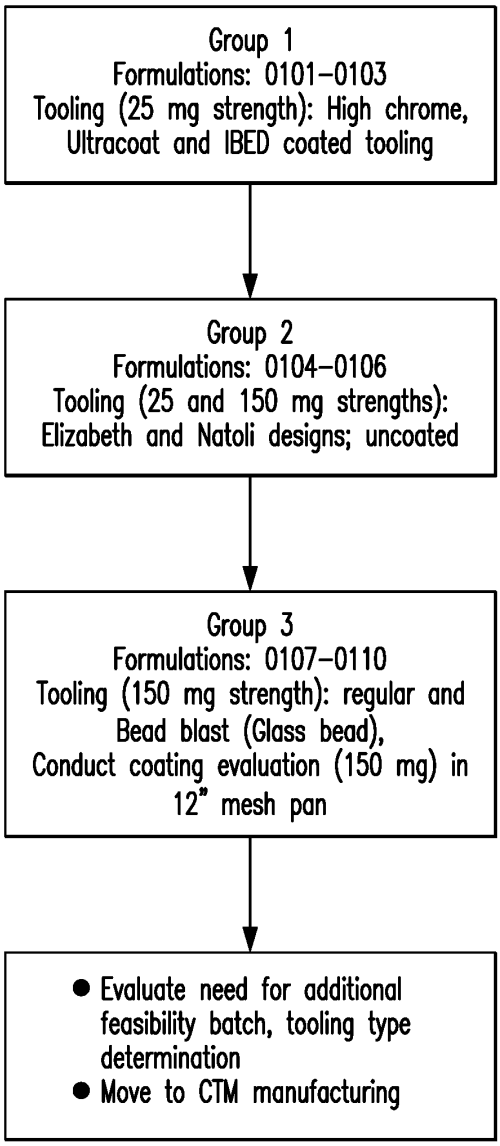

Group 1
Formulations: 0101–0103
Tooling (25 mg strength): High chrome, Ultracoat and IBED coated tooling
Group 2
Formulations: 0104–0106
Tooling (25 and 150 mg strengths): Elizabeth and Natoli designs; uncoated
Group 3
Formulations: 0107–0110
Tooling (150 mg strength): regular and Bead blast (Glass bead),
Conduct coating evaluation (150 mg) in 12" mesh pan
● Evaluate need for additional feasibility batch, tooling type determination
● Move to CTM manufacturing

FIG. 5

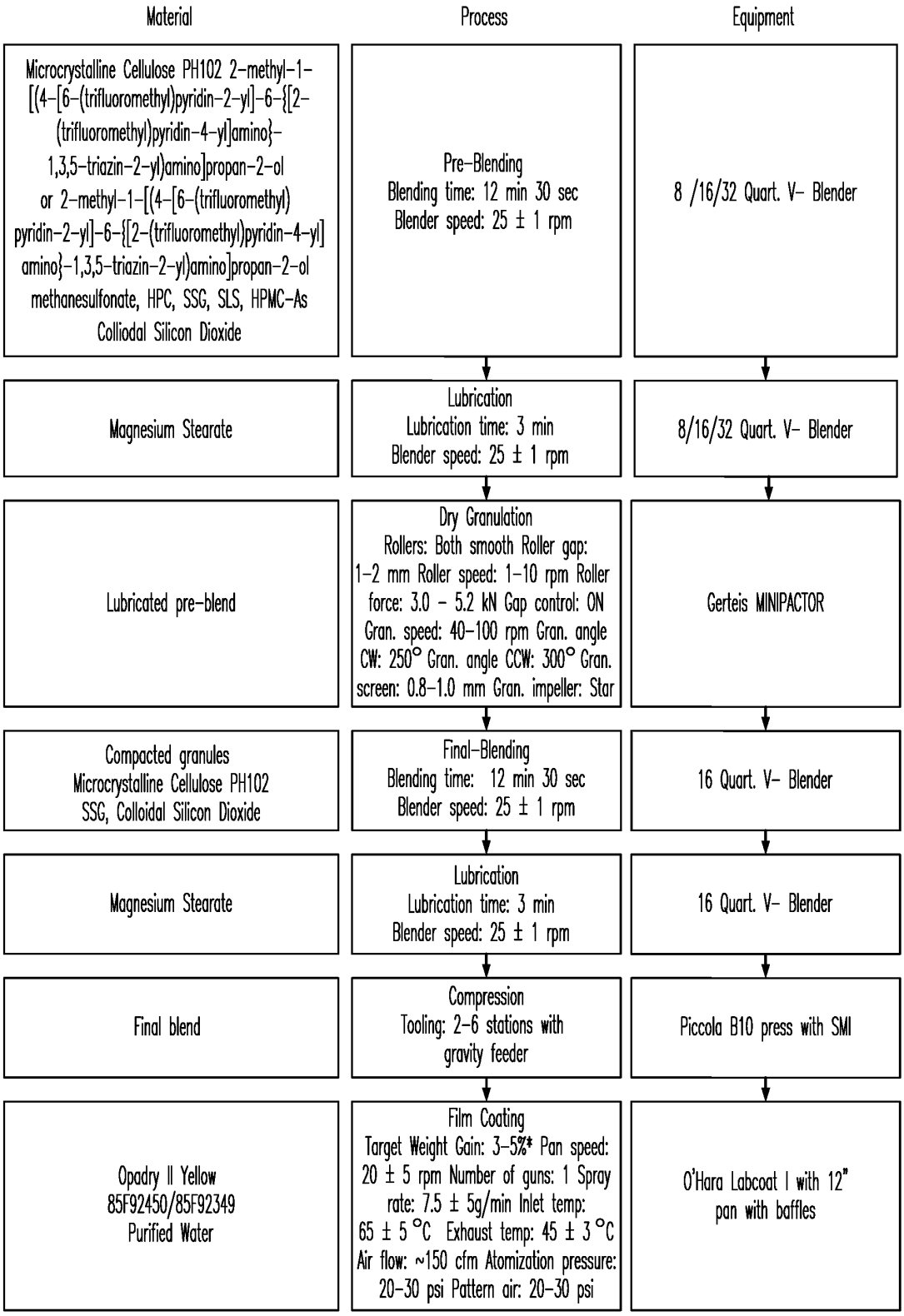

Material
Process
Equipment
Microcrystalline Cellulose PH102 2-methyl-1-[(4-[6-(trifluoromethyl)pyridin-2-yl]-6-{[2-(trifluoromethyl)pyridin-4-yl]amino}-1,3,5-triazin-2-yl)amino]propan-2-ol or 2-methyl-1-[(4-[6-(trifluoromethyl) pyridin-2-yl]-6-{[2-(trifluoromethyl)pyridin-4-yl] amino}-1,3,5-triazin-2-yl)amino]propan-2-ol methanesulfonate, HPC, SSG, SLS, HPMC-As Colliodal Silicon Dioxide
Pre-Blending
Blending time: 12 min 30 sec
Blender speed: 25 ± 1 rpm
8 /16/32 Quart. V- Blender
Magnesium Stearate
Lubrication
Lubrication time: 3 min
Blender speed: 25 ± 1 rpm
8/16/32 Quart. V- Blender
Lubricated pre-blend
Dry Granulation
Rollers: Both smooth Roller gap: 1-2 mm Roller speed: 1-10 rpm Roller force: 3.0 - 5.2 kN Gap control: ON Gran. speed: 40-100 rpm Gran. angle CW: 250° Gran. angle CCW: 300° Gran. screen: 0.8-1.0 mm Gran. impeller: Star
Gerteis MINIPACTOR
Compacted granules
Microcrystalline Cellulose PH102
SSG, Colloidal Silicon Dioxide
Final-Blending
Blending time: 12 min 30 sec
Blender speed: 25 ± 1 rpm
16 Quart. V- Blender
Magnesium Stearate
Lubrication
Lubrication time: 3 min
Blender speed: 25 ± 1 rpm
16 Quart. V- Blender
Final blend
Compression
Tooling: 2-6 stations with gravity feeder
Piccola B10 press with SMI
Opadry II Yellow
85F92450/85F92349
Purified Water
Film Coating
Target Weight Gain: 3-5%* Pan speed: 20 ± 5 rpm Number of guns: 1 Spray rate: 7.5 ± 5g/min Inlet temp: 65 ± 5 °C Exhaust temp: 45 ± 3 °C Air flow: ~150 cfm Atomization pressure: 20-30 psi Pattern air: 20-30 psi
O'Hara Labcoat I with 12" pan with baffles

FIG. 6

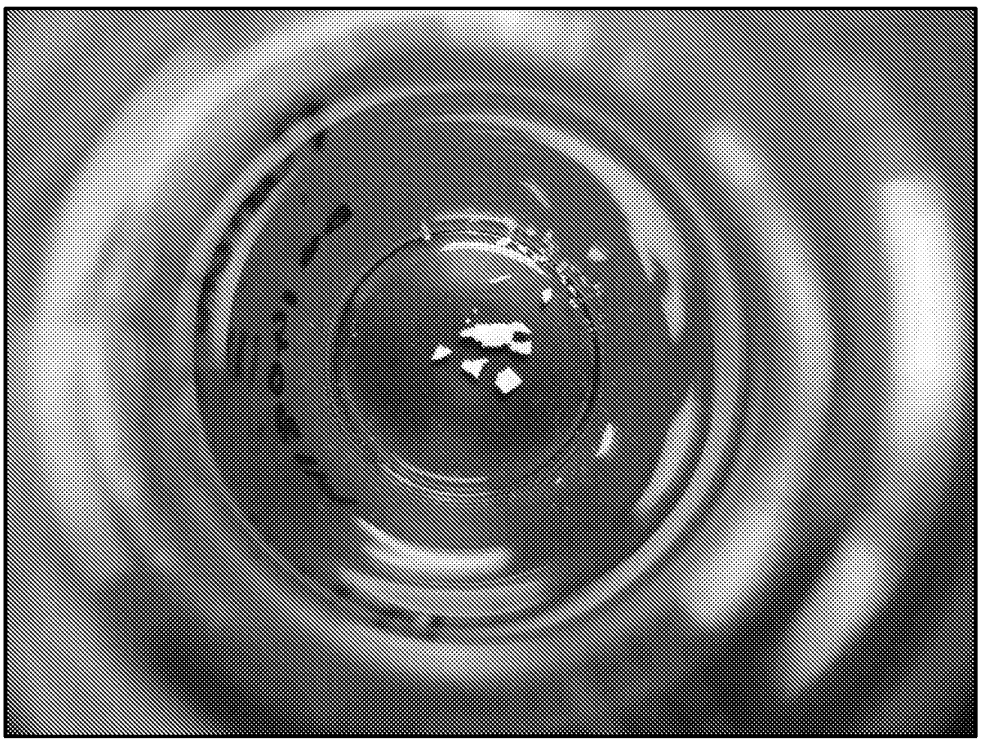


FIG. 7

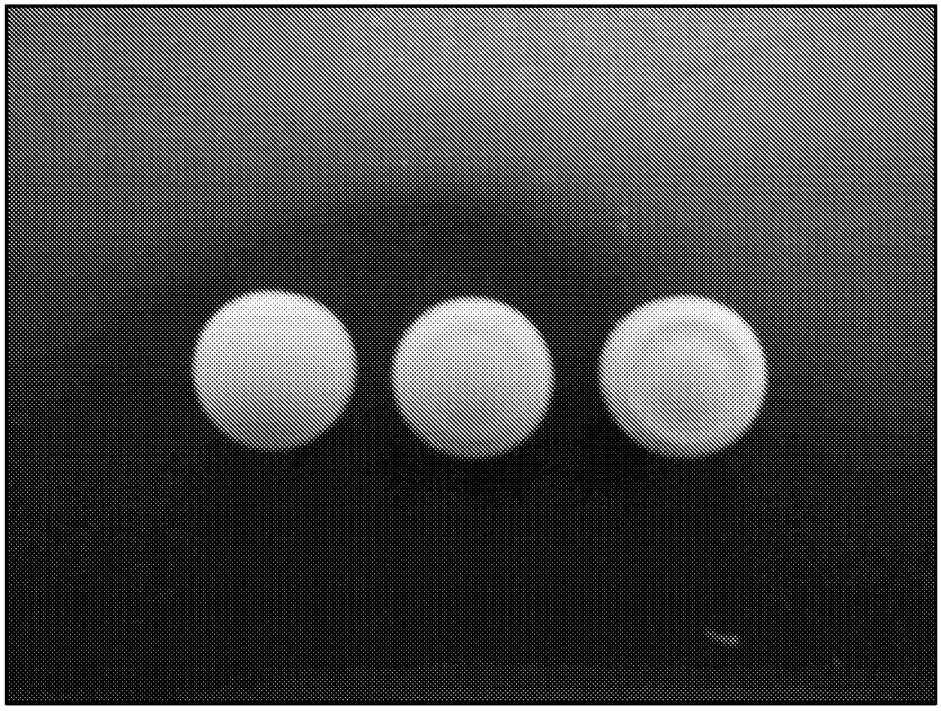


FIG. 8

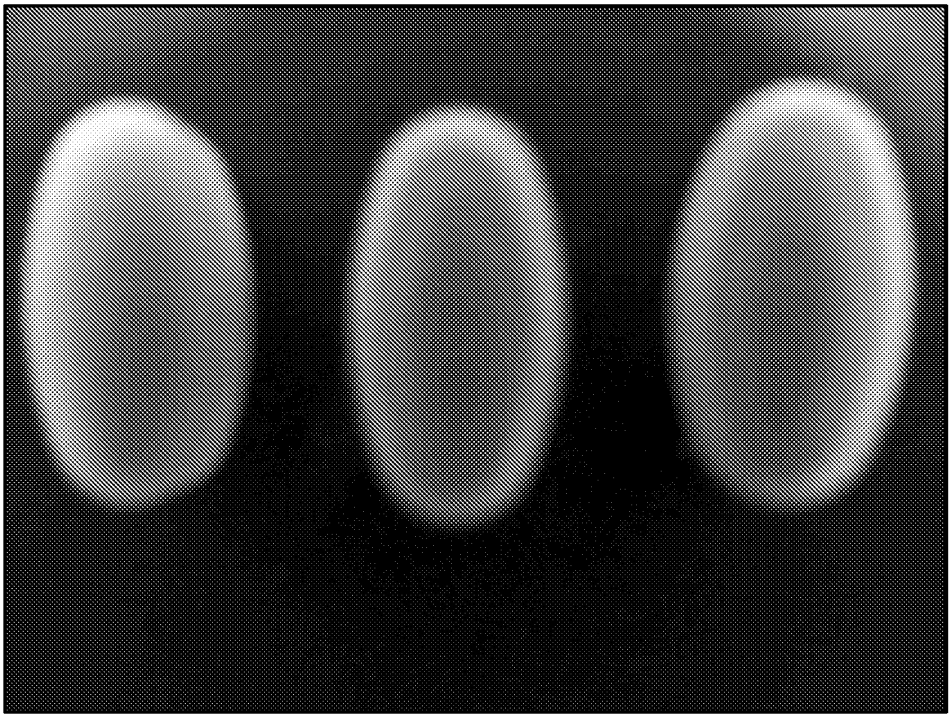


FIG. 9