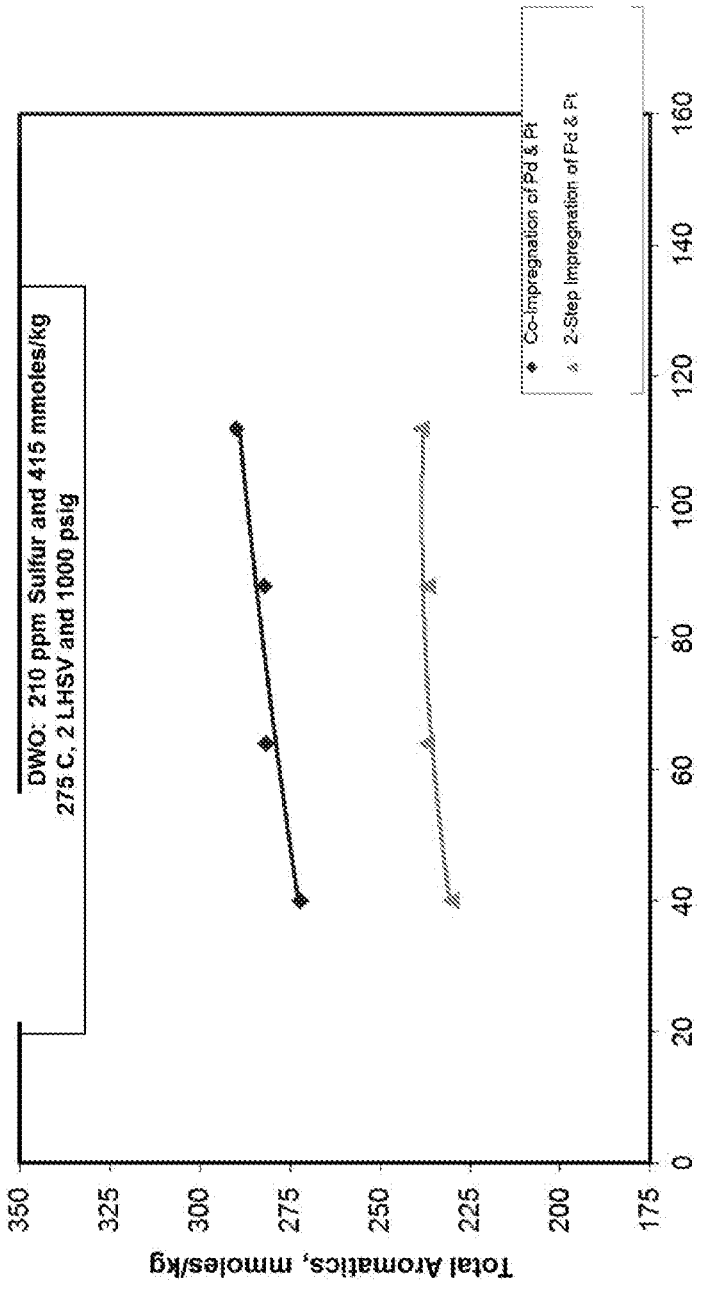

DWO: 210 ppm Sulfur and 415 mmoles/kg
275 C, 2 LHSV and 1000 psig
Co-impregnation of Pd & Pt
2-Step Impregnation of Pd & Pt
Total Aromatics, mmoles/kg
350
325
300
275
250
225
200
175
0
20
40
60
80
100
120
140
160
Hours on Stream

FIG. 1

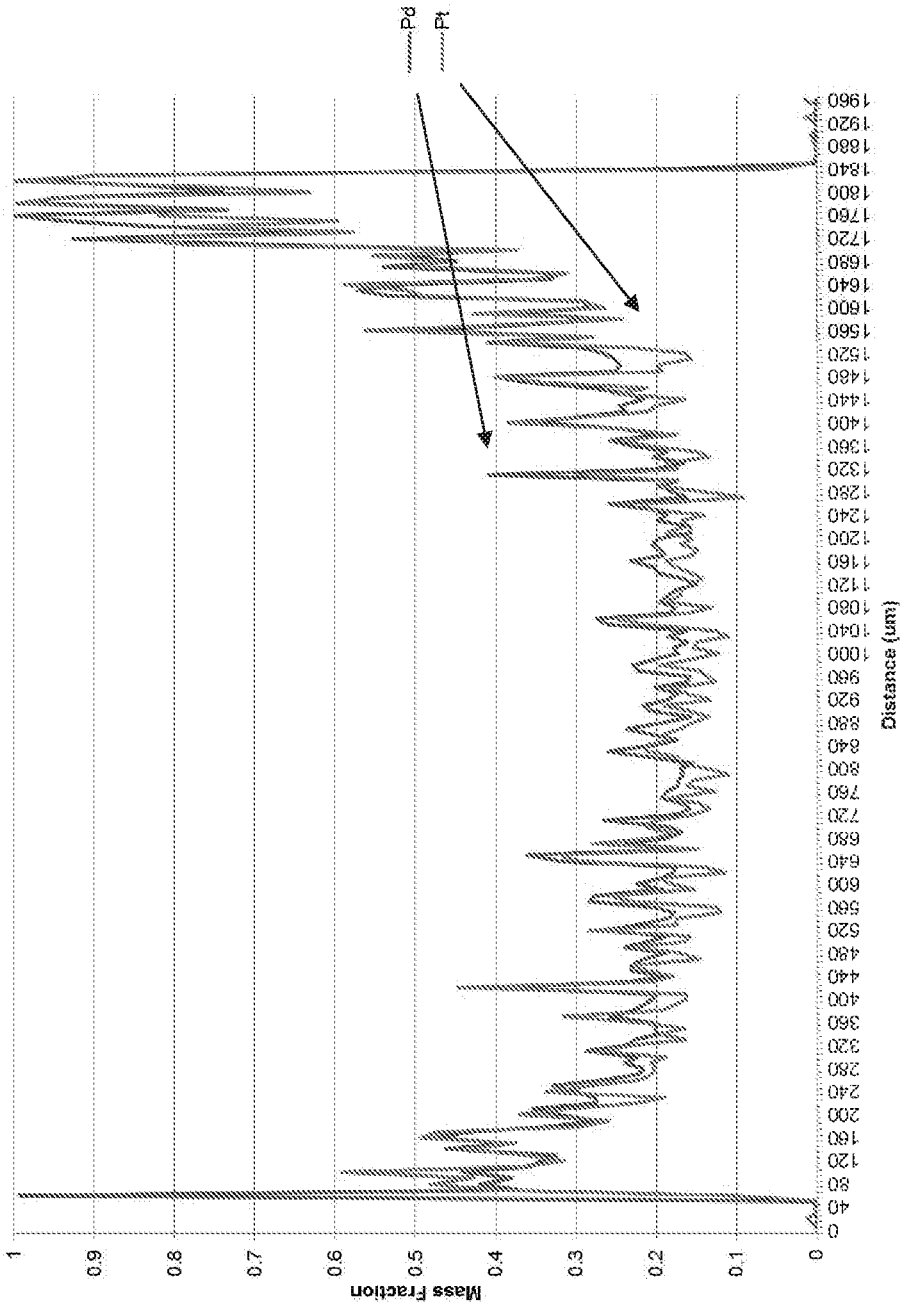

Pd
Pt
Mass Fraction
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Distance (um)
0
40
80
120
160
200
240
280
320
360
400
440
480
520
560
600
640
680
720
760
800
840
880
920
960
1000
1040
1080
1120
1160
1200
1240
1280
1320
1360
1400
1440
1480
1520
1560
1600
1640
1680
1720
1760
1800
1840
1880
1920
1960

FIG. 2

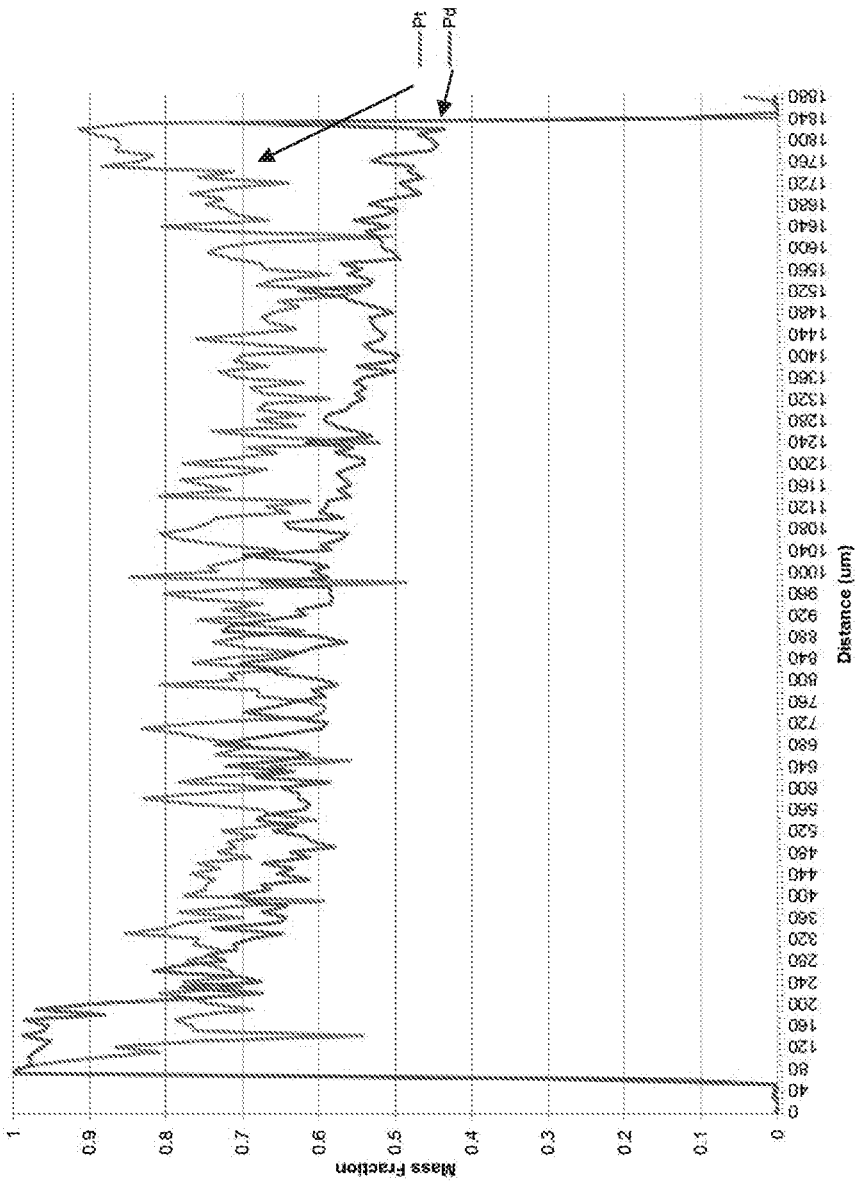


FIG. 3

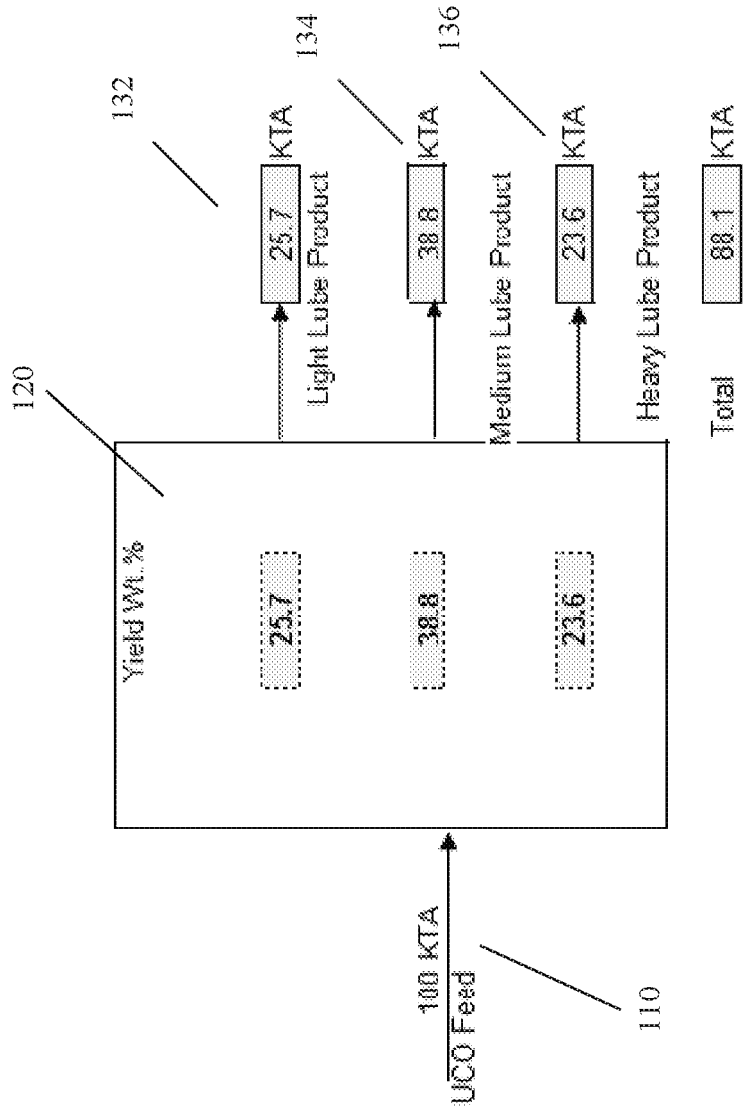

100 KTA
UCO Feed
110
120
Yield Wt.%
25.7
38.8
23.6
132
134
136
25.7 KTA
Light Lube Product
38.8 KTA
Medium Lube Product
23.6 KTA
Heavy Lube Product
88.1 KTA
Total

FIG. 4

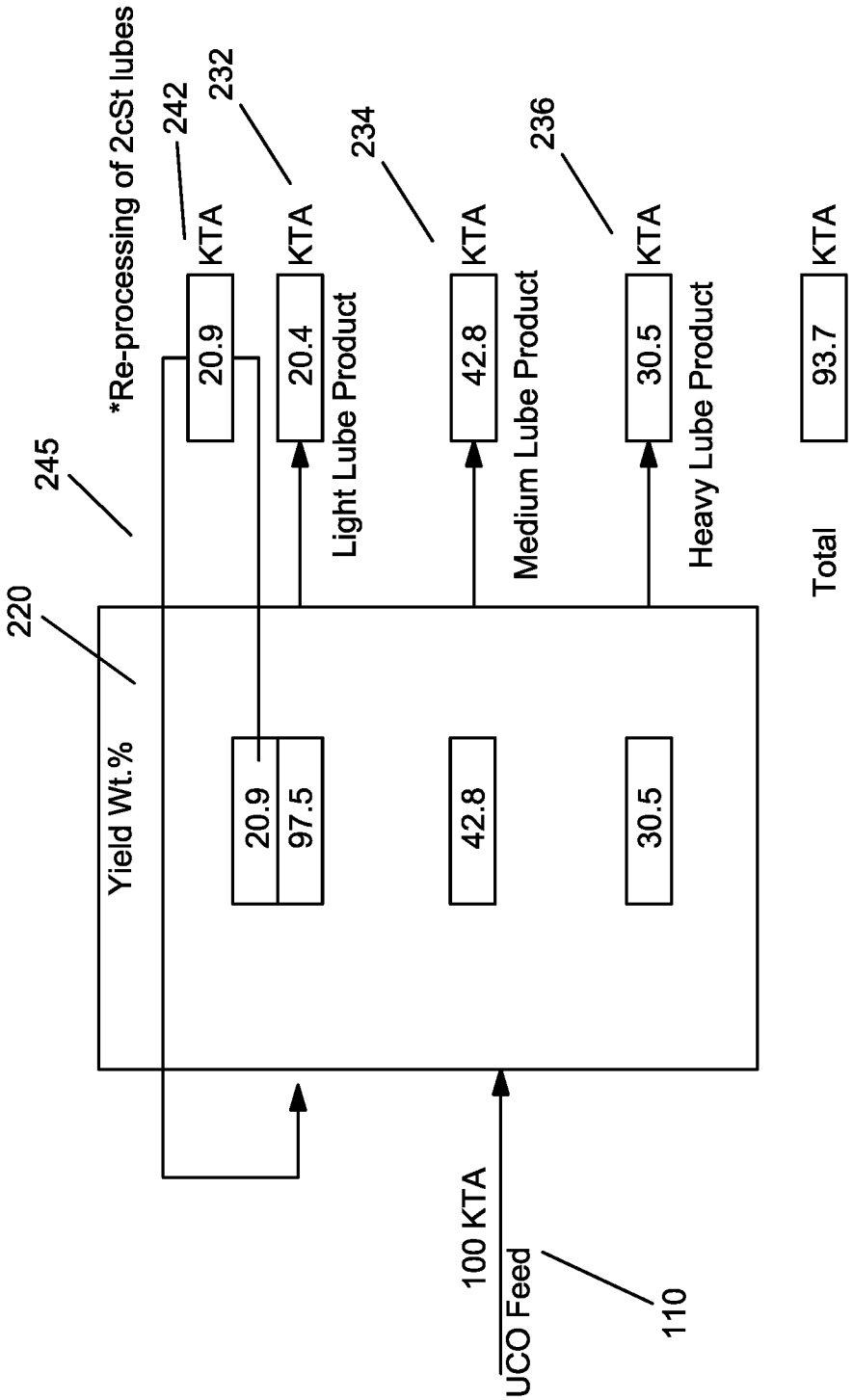

*Re-processing of 2cSt lubes
242
232
234
236
KTA
KTA
KTA
KTA
KTA
20.9
20.4
42.8
30.5
93.7
Light Lube Product
Medium Lube Product
Heavy Lube Product
Total
245
220
Yield Wt.%
20.9
97.5
42.8
30.5
100 KTA
UCO Feed
110

FIG. 5

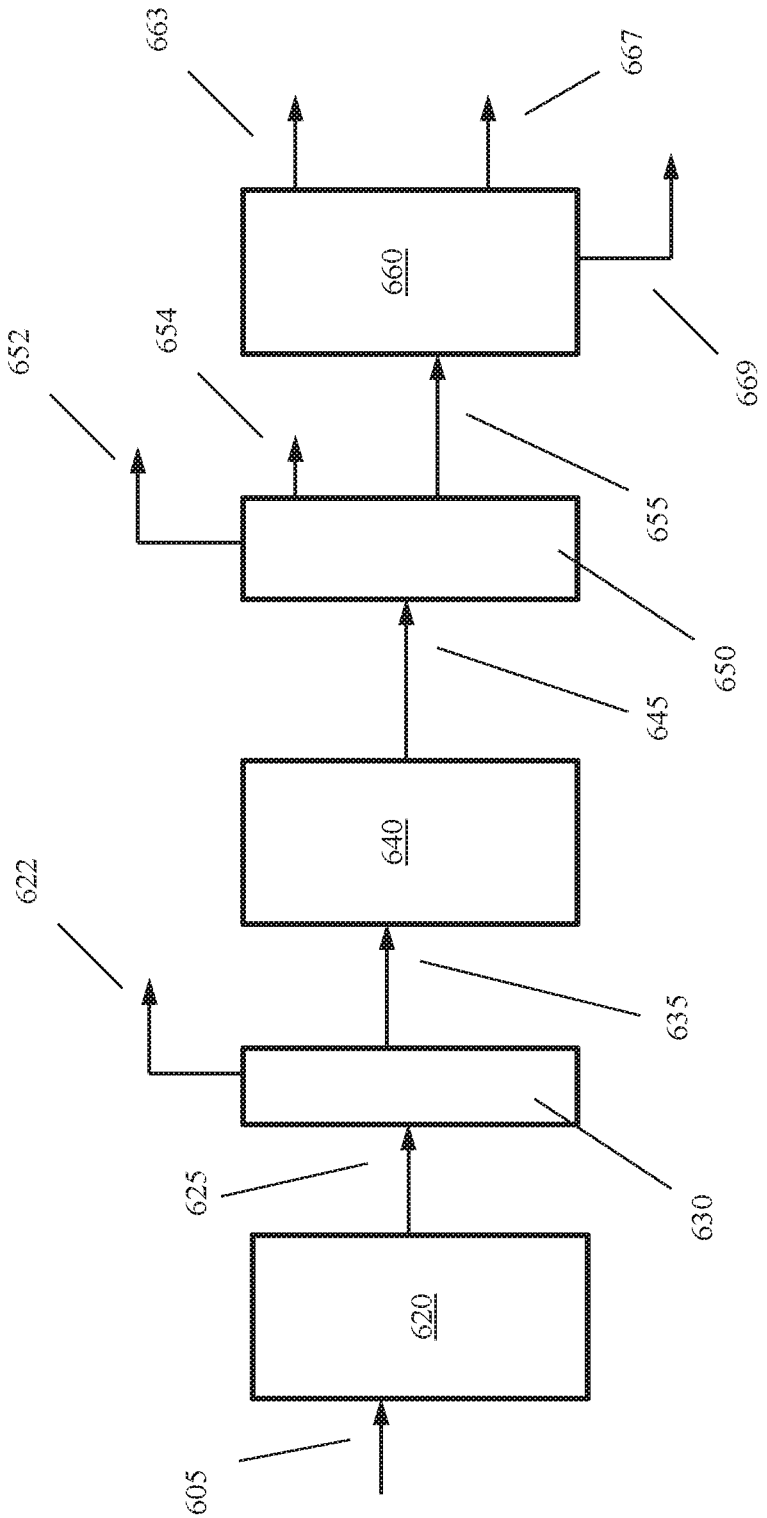


FIG. 6