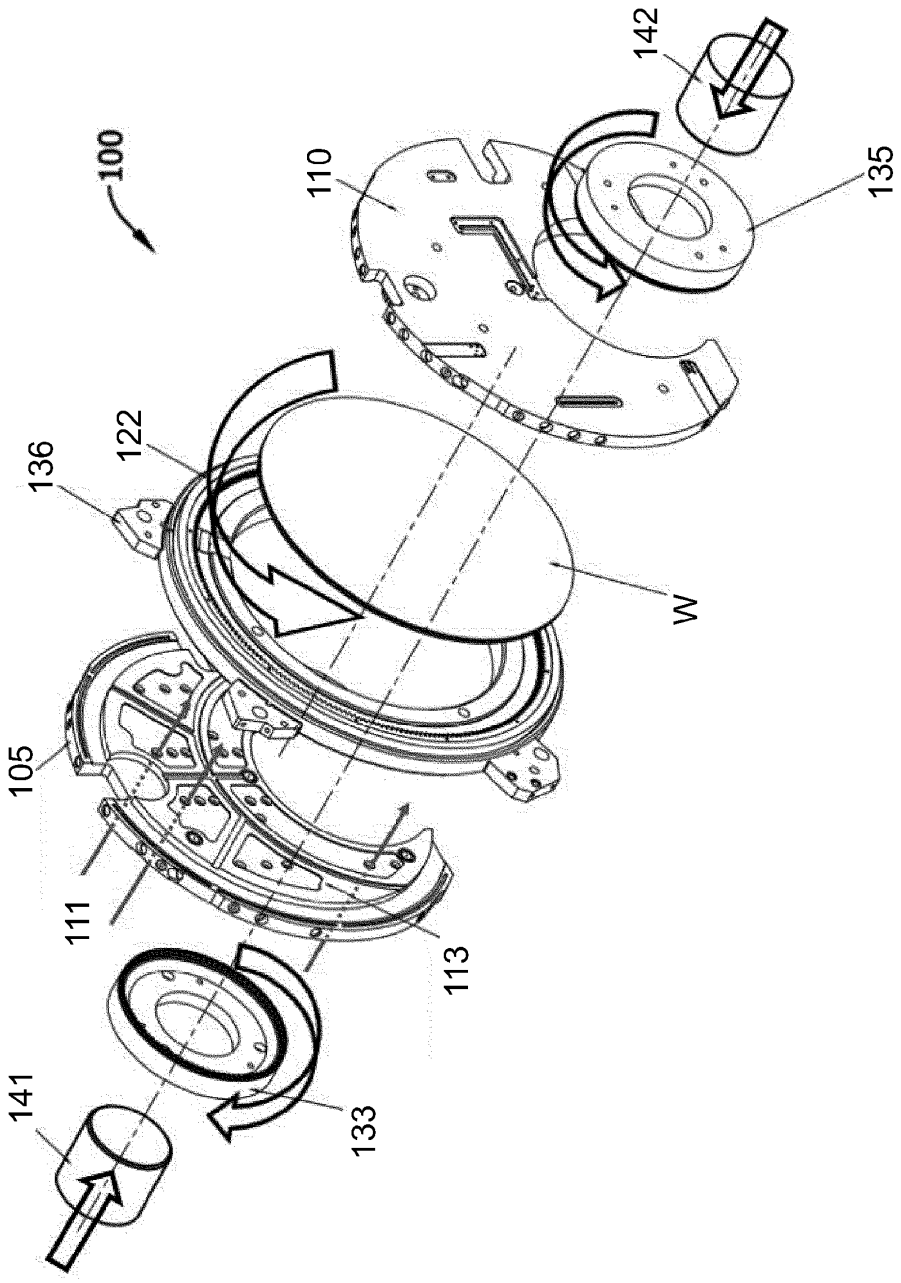
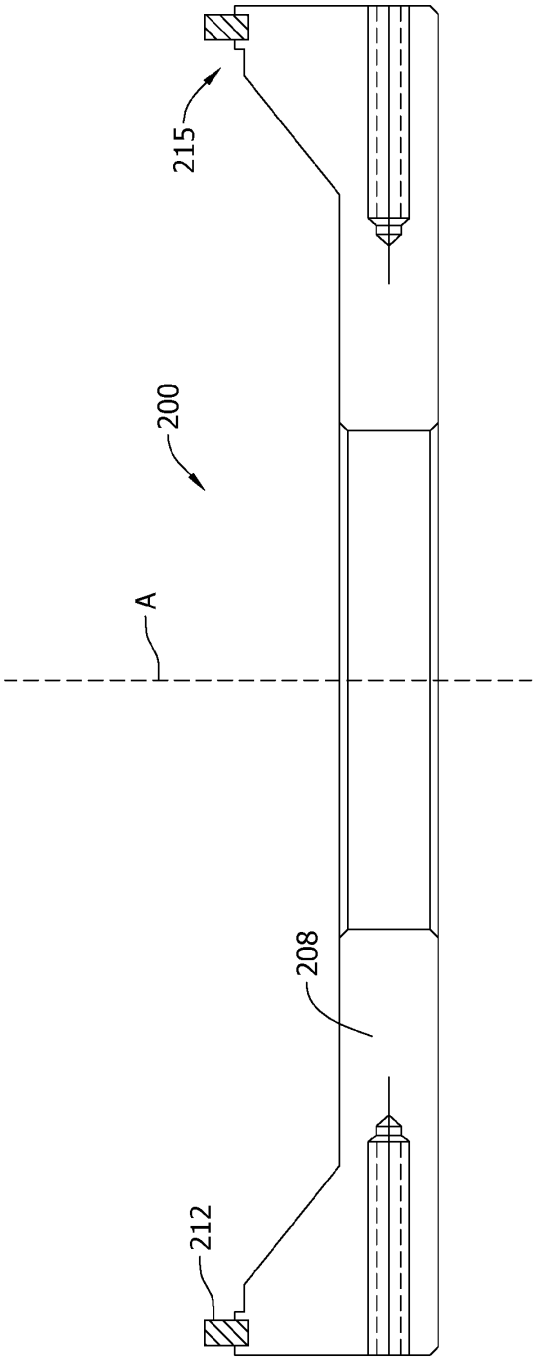
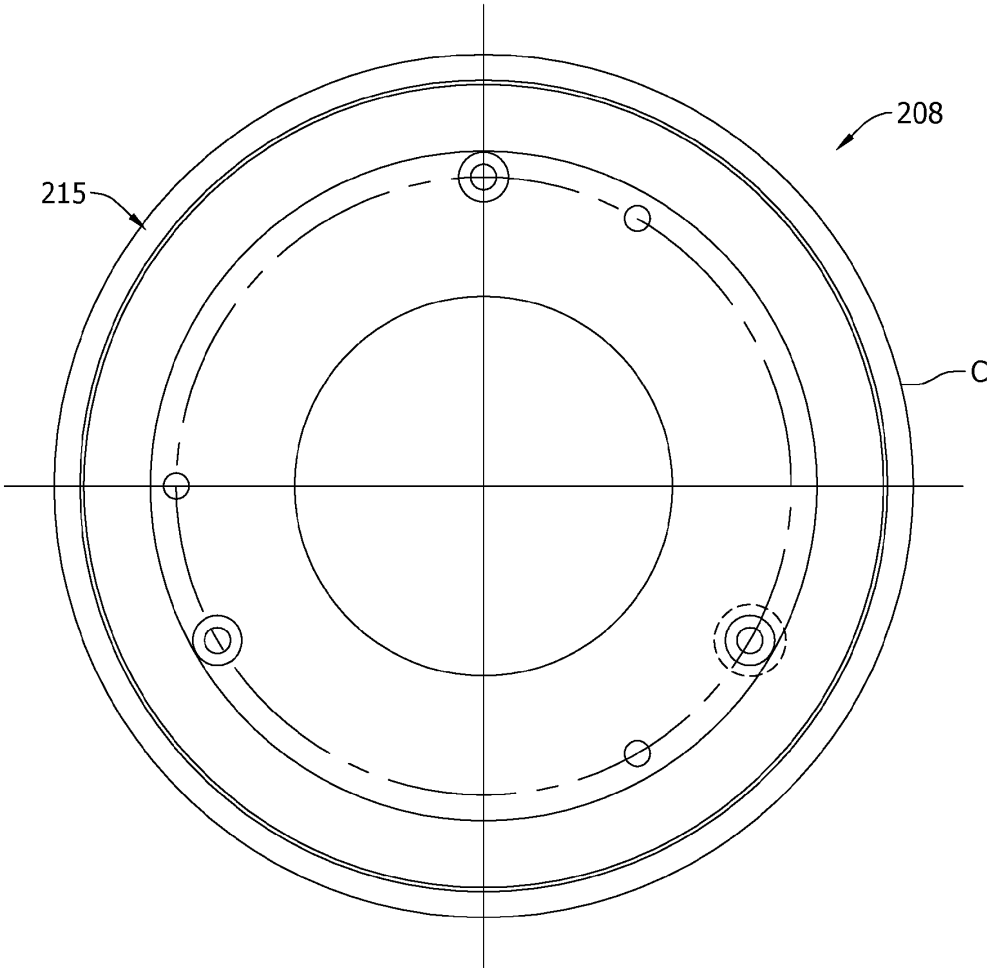
[Fig. 1]



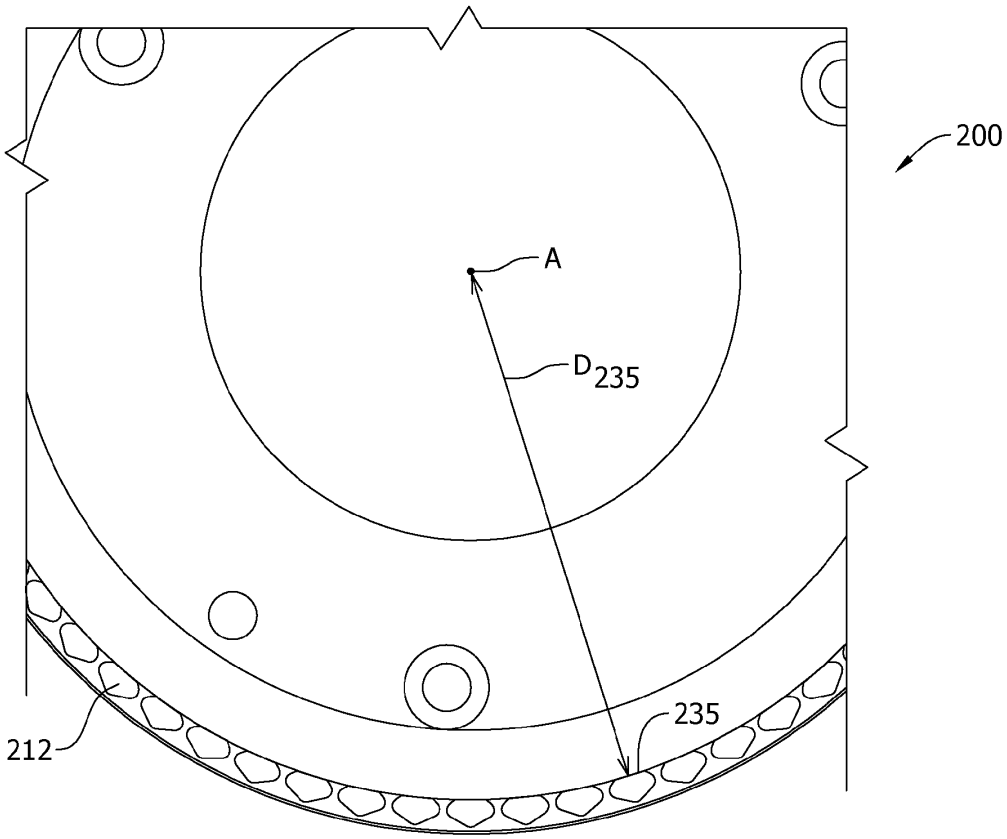
[Fig. 2]



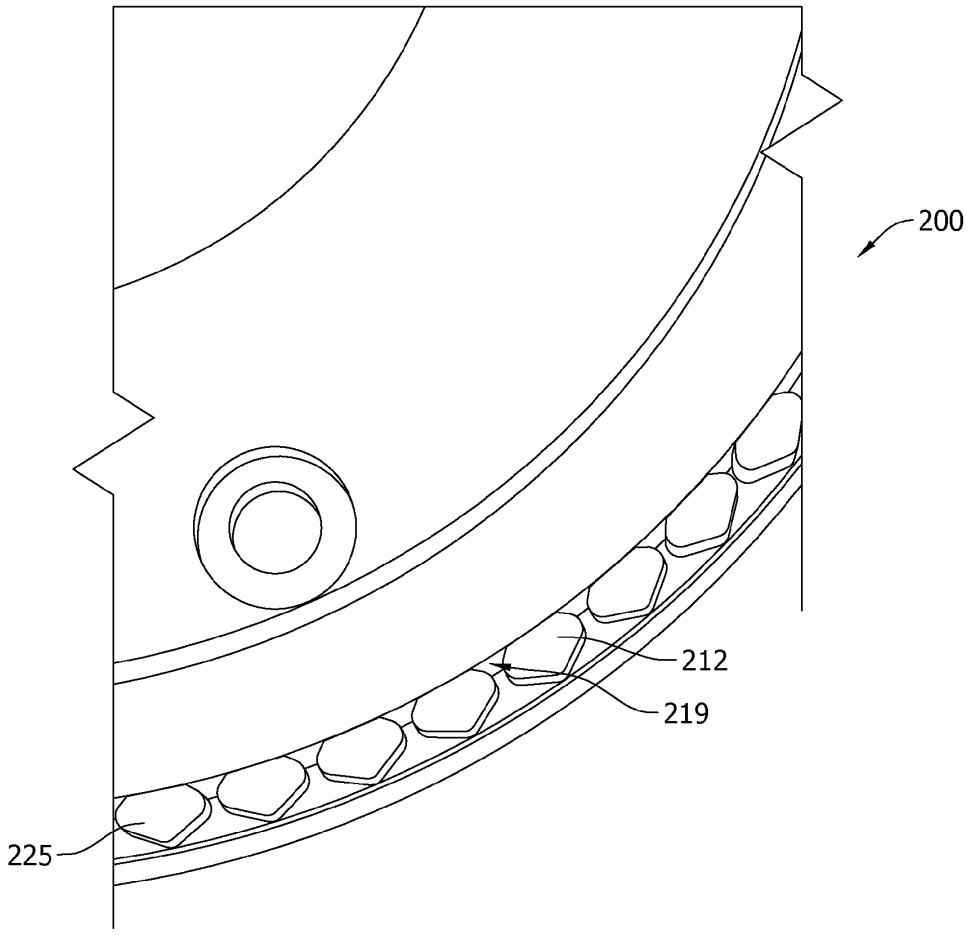
[Fig. 3]



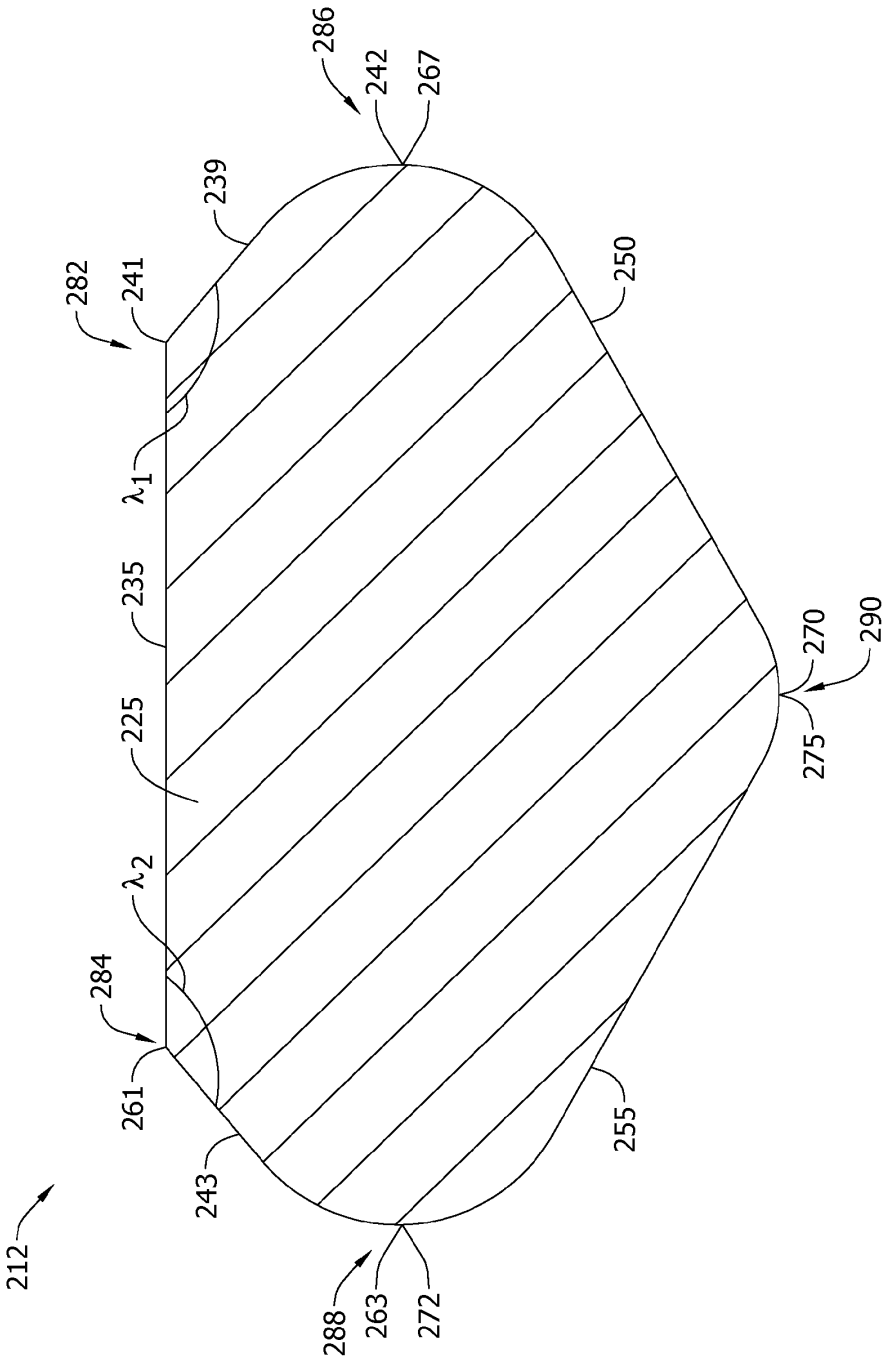
[Fig. 4]



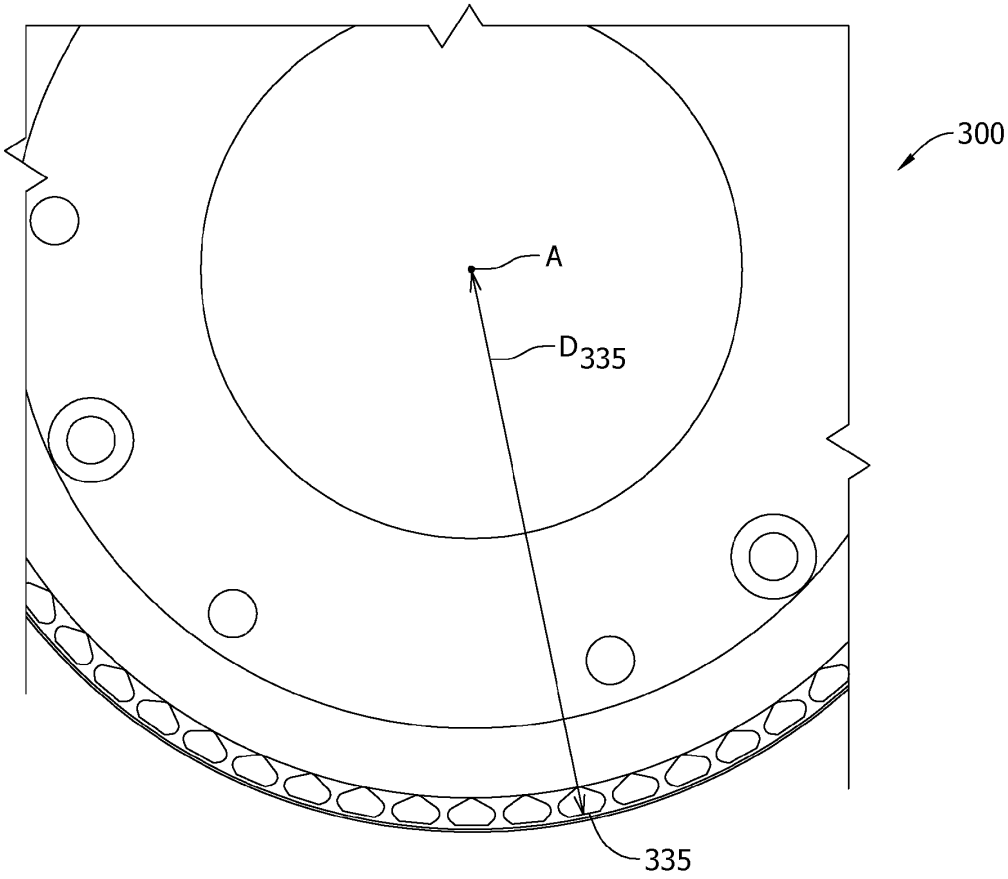
[Fig. 5]



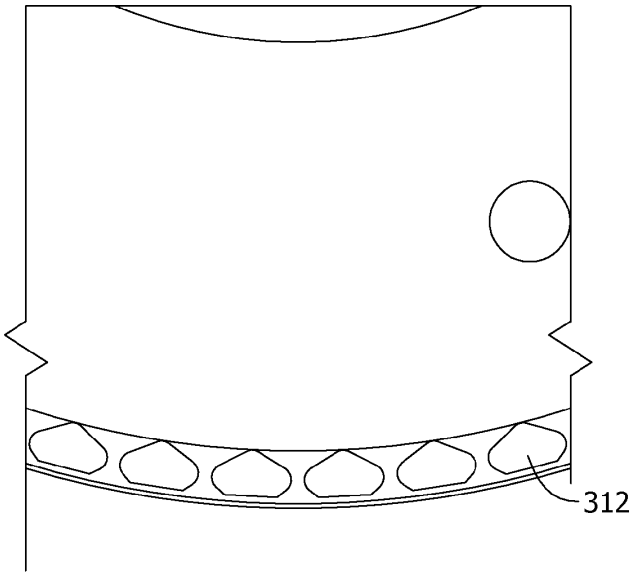
[Fig. 6]


286
242
267
239
282
241
250
λ_1
235
270
290
225
275
λ_2
284
261
255
243
212
288
263
272

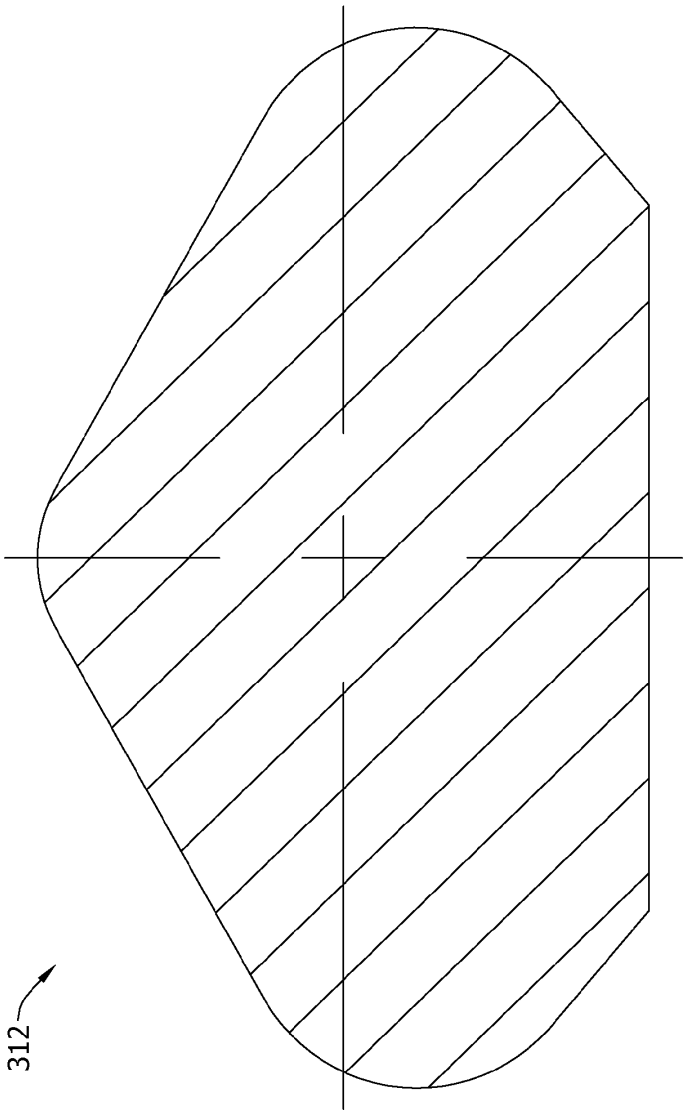
[Fig. 7]



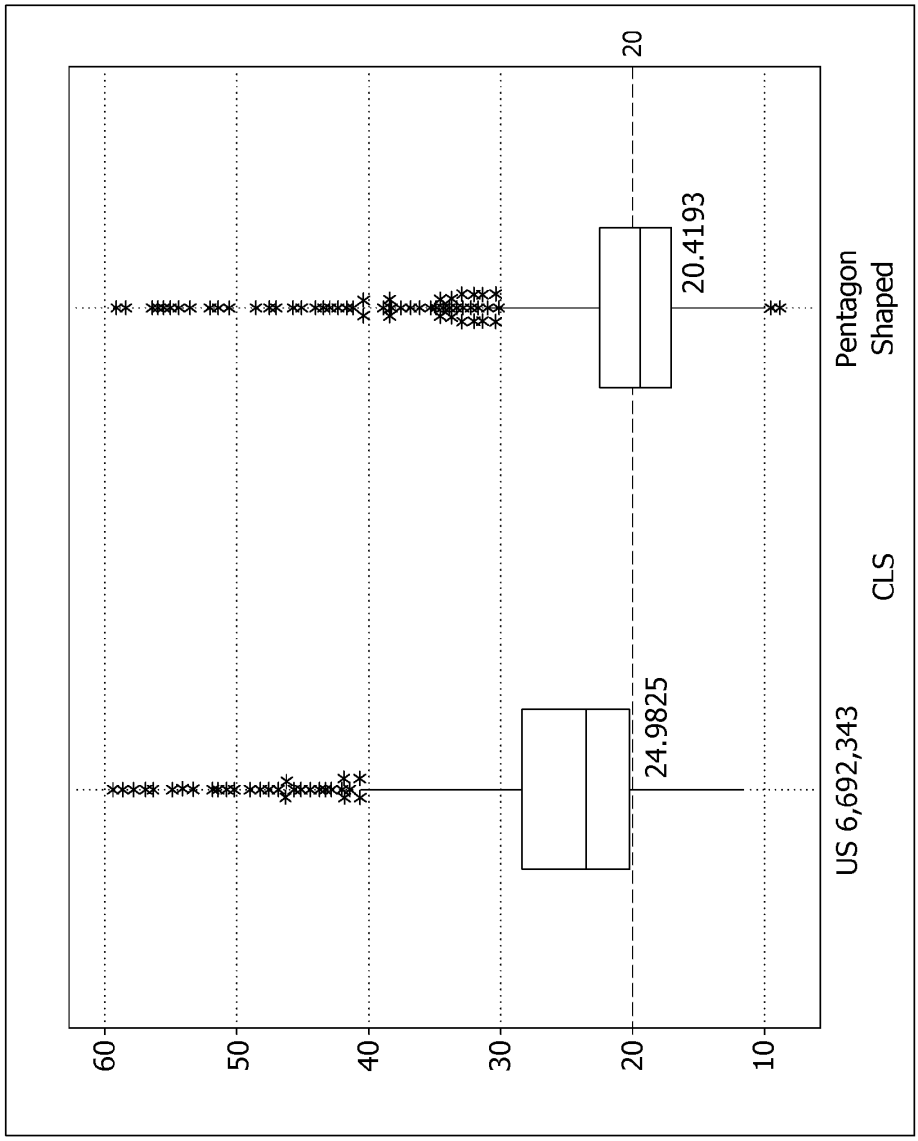
[Fig. 8]



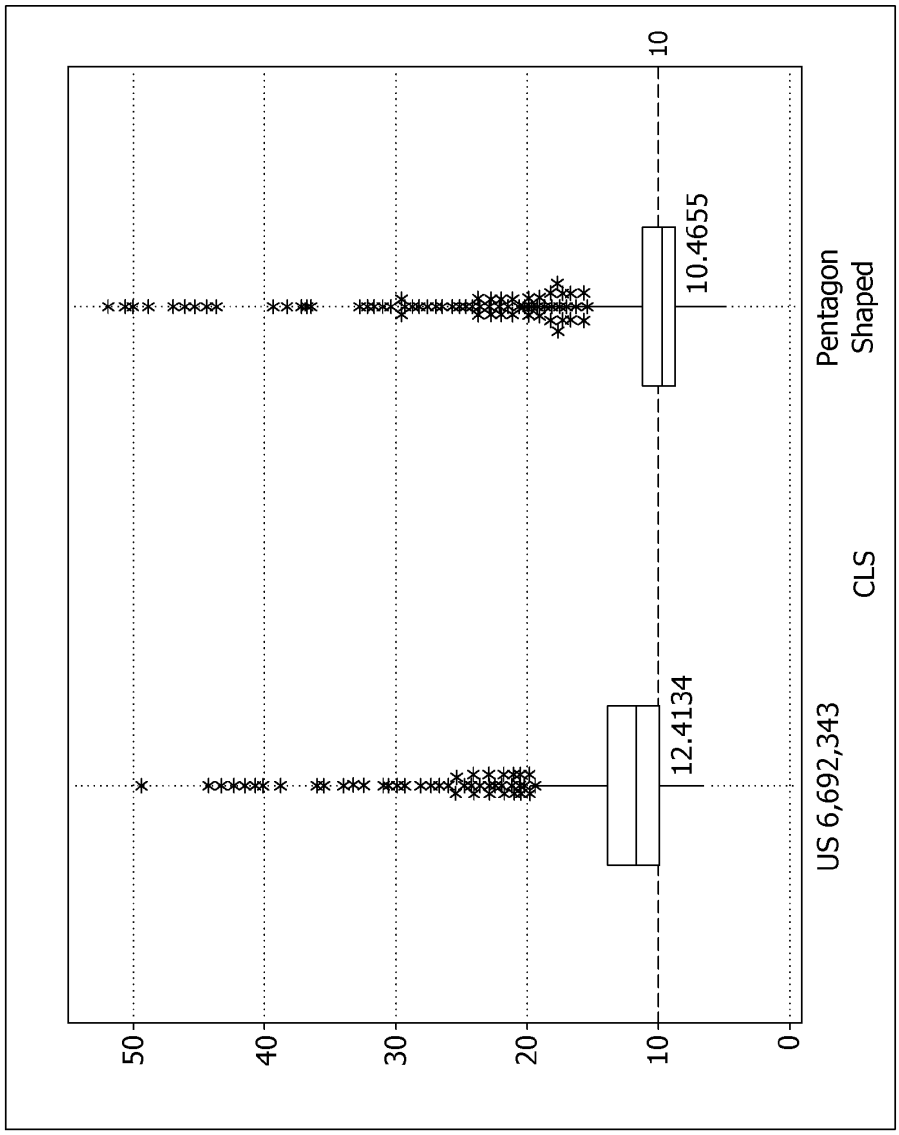
[Fig. 9]



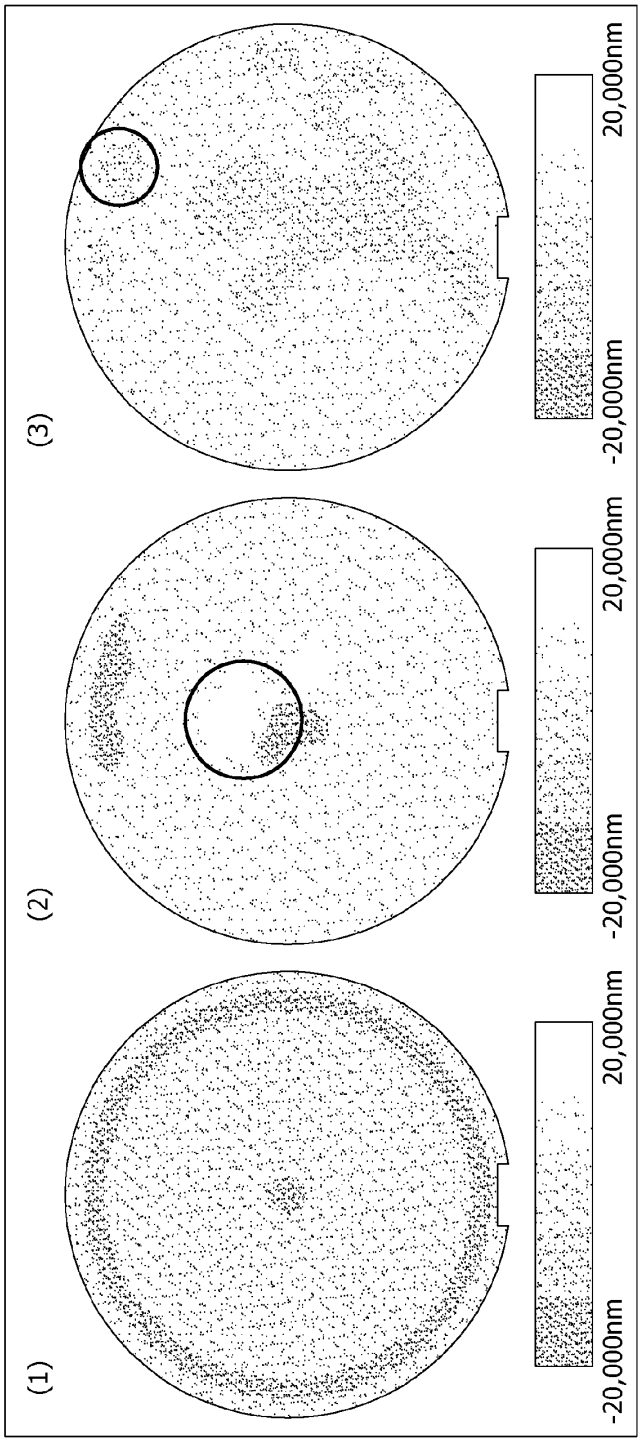
[Fig. 10]


20
20.4193
24.9825
Pentagon
Shaped
CLS
US 6,692,343
60
50
40
30
20
10

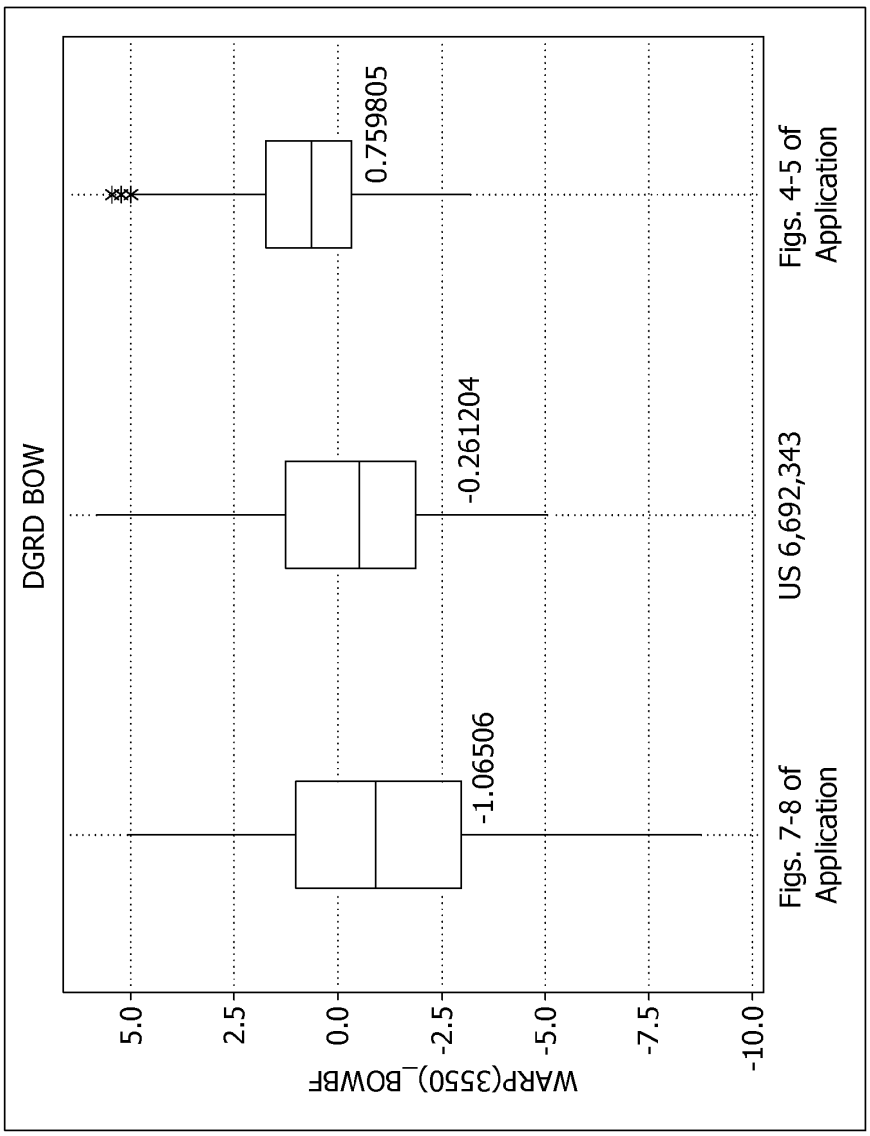
[Fig. 11]


10
10.4655
12.4134
Pentagon
Shaped
CLS
US 6,692,343
50
40
30
20
10
0

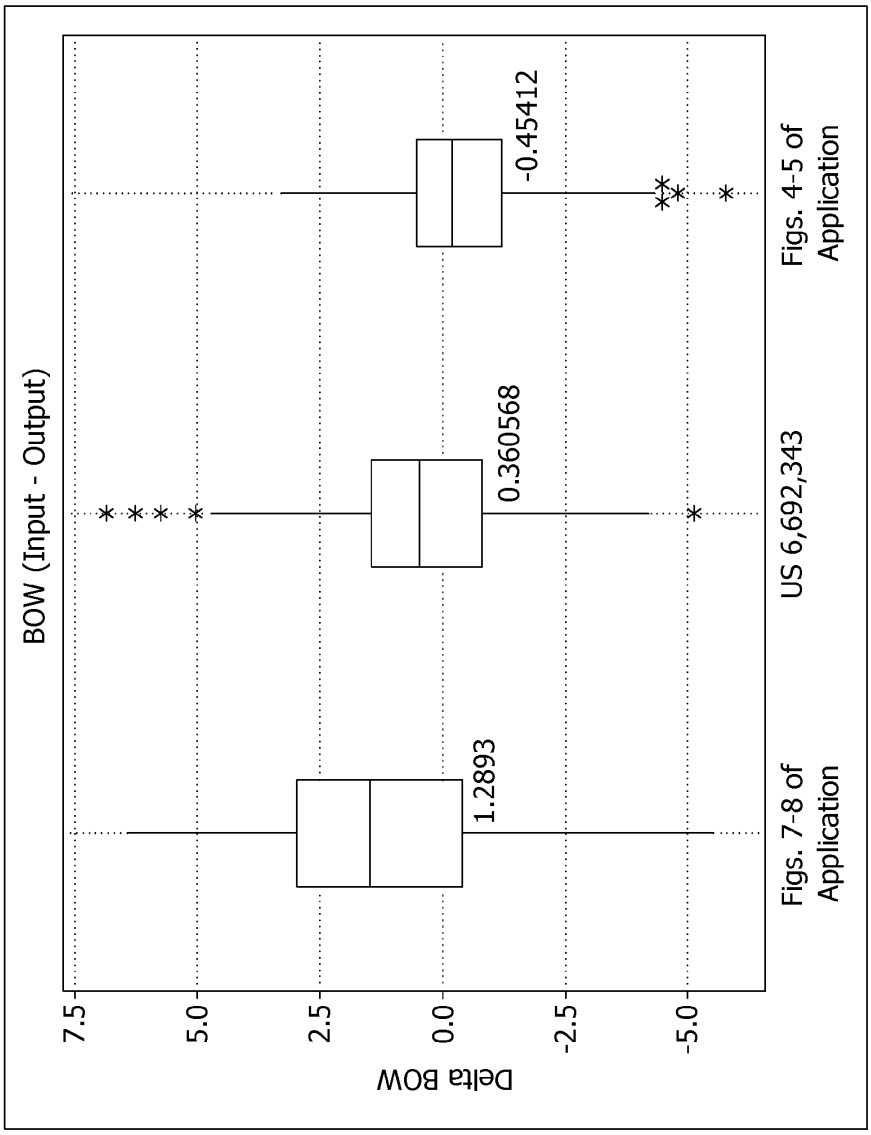
[Fig. 12]



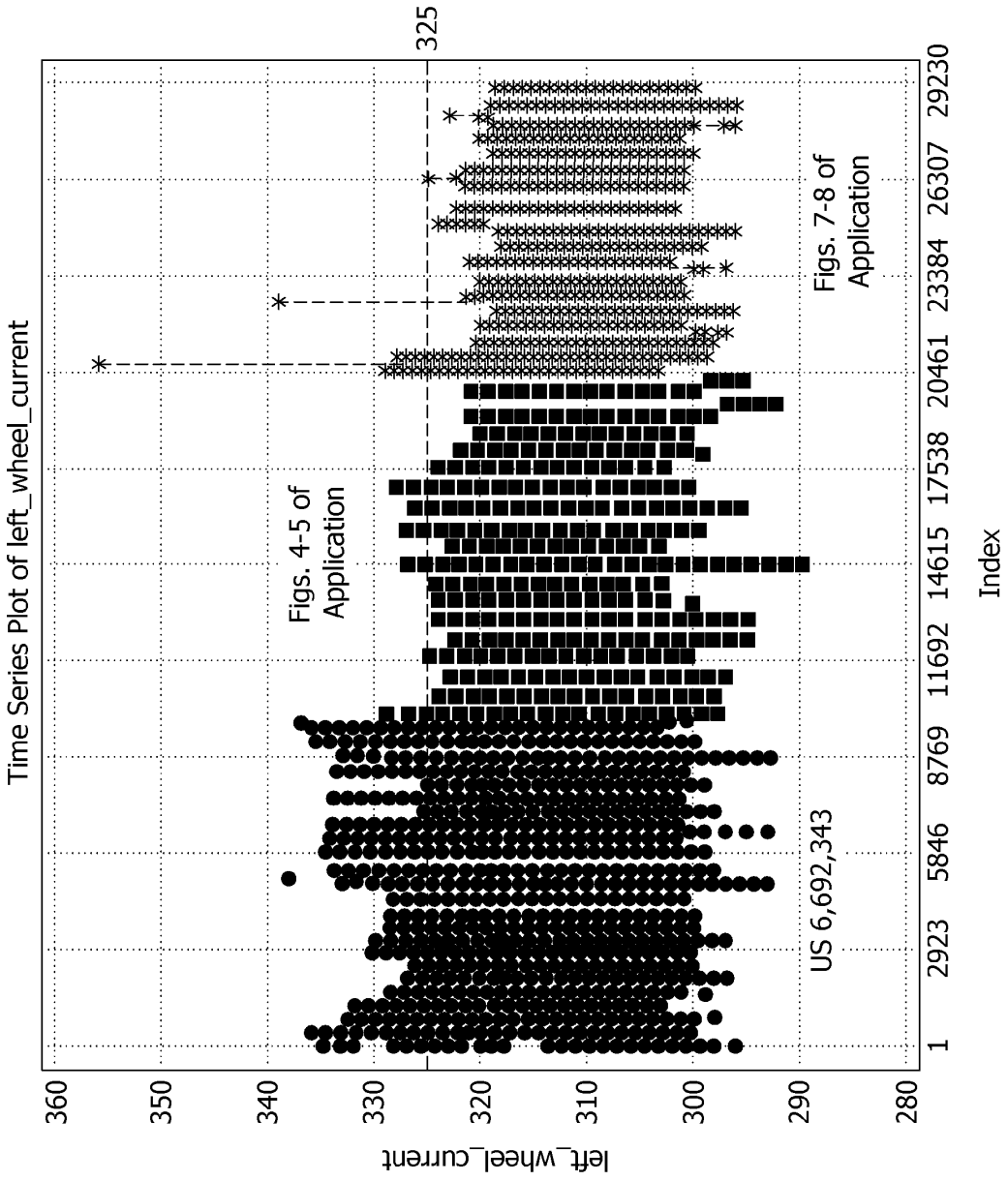
[Fig. 13]


DGRD BOW
WARP(3550)_BOWBF
5.0
2.5
0.0
-2.5
-5.0
-7.5
-10.0
0.759805
-0.261204
-1.06506
Figs. 4-5 of Application
US 6,692,343
Figs. 7-8 of Application

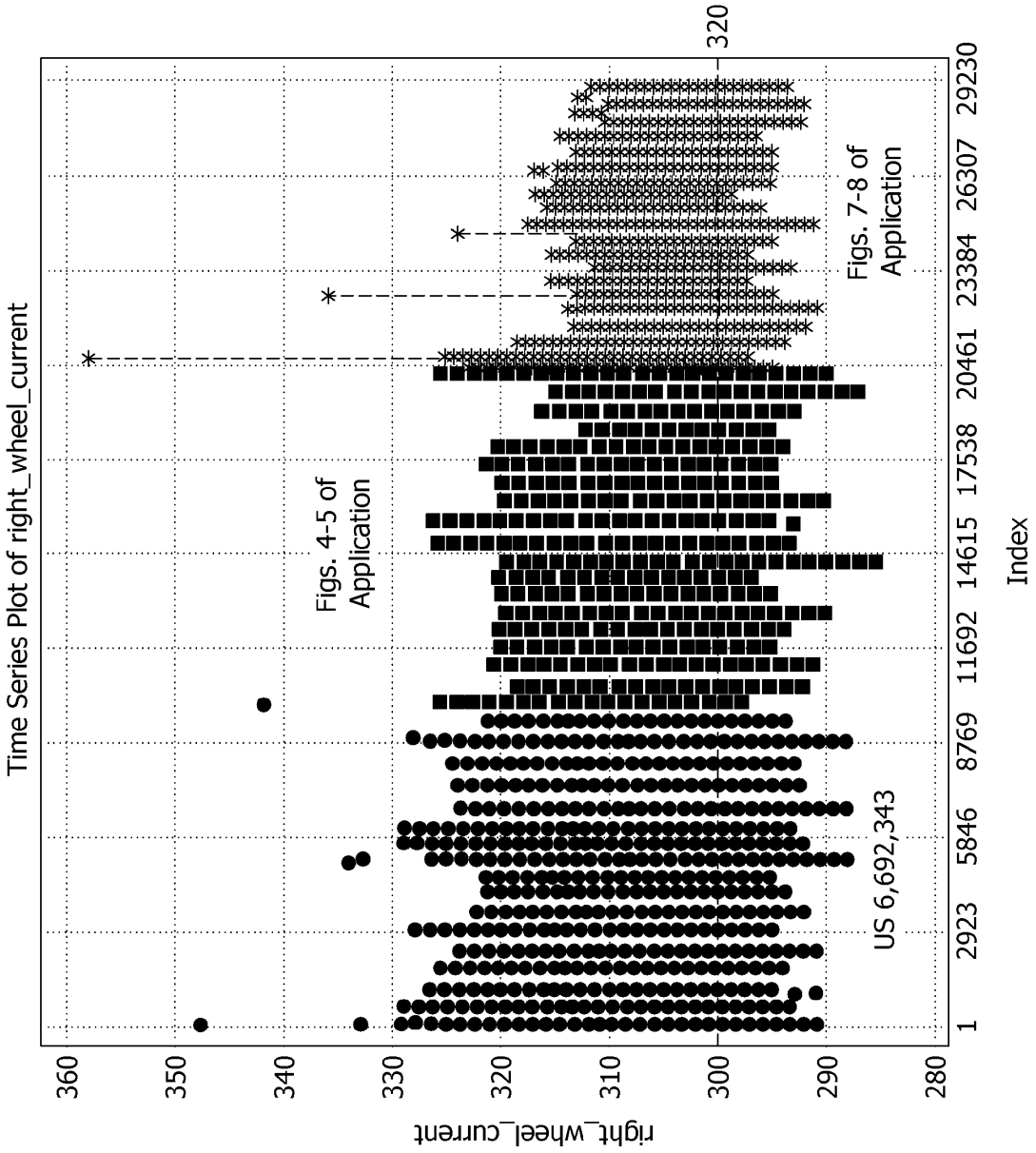
[Fig. 14]


BOW (Input - Output)
Delta BOW
7.5
5.0
2.5
0.0
-2.5
-5.0
-0.45412
0.360568
1.2893
Figs. 4-5 of Application
US 6,692,343
Figs. 7-8 of Application

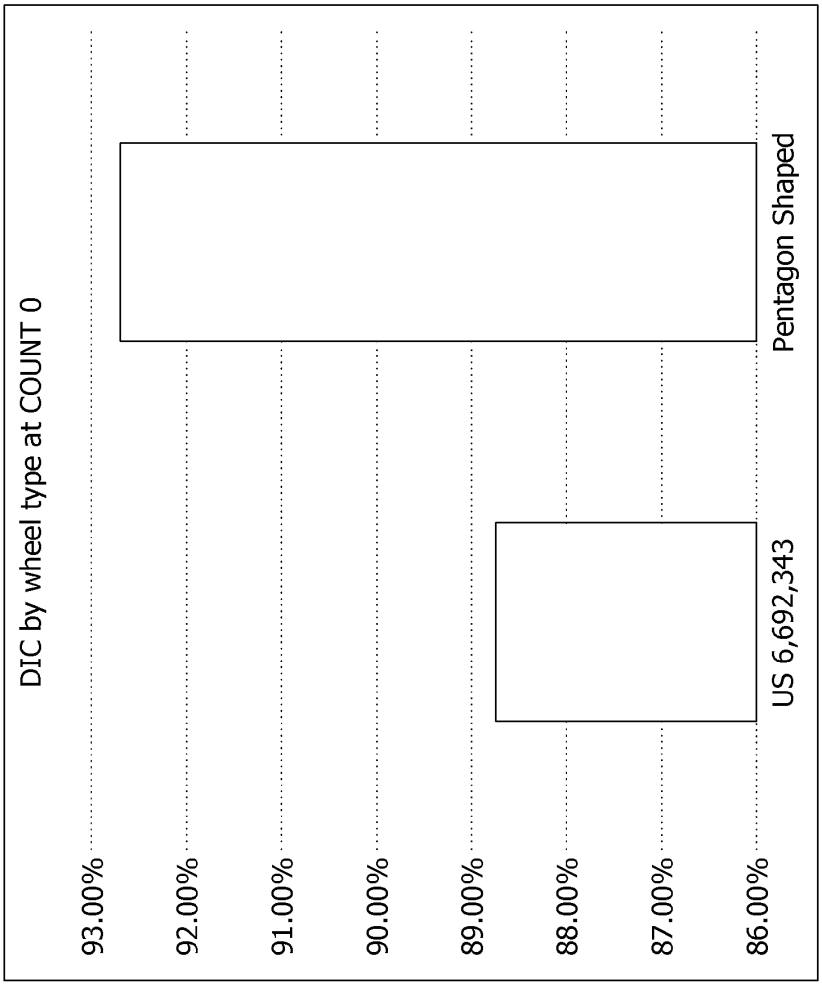
[Fig. 15]


Time Series Plot of left_wheel_current
325
Figs. 4-5 of Application
Figs. 7-8 of Application
US 6,692,343
left_wheel_current
Index
360
350
340
330
320
310
300
290
280
1
2923
5846
8769
11692
14615
17538
20461
23384
26307
29230

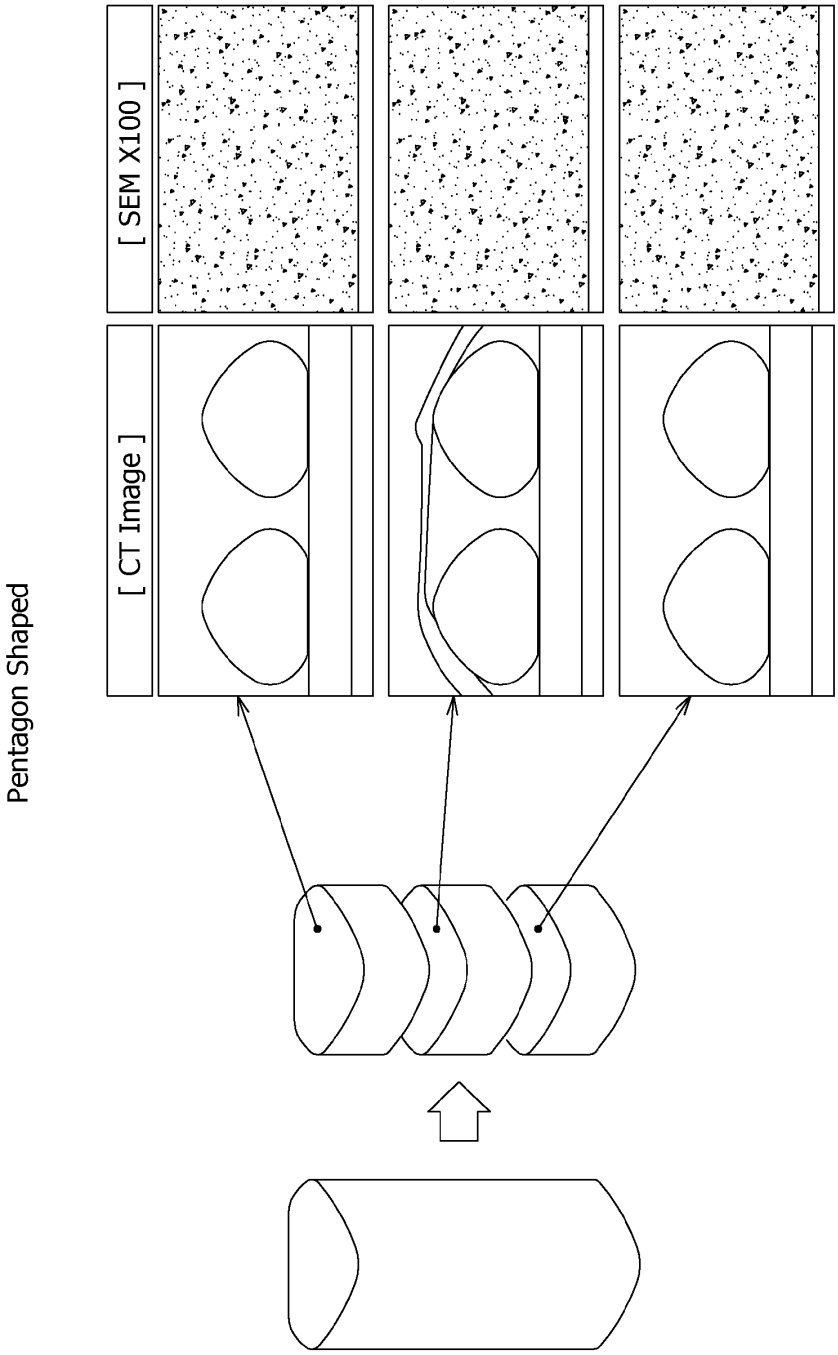
[Fig. 16]


Time Series Plot of right_wheel_current
right_wheel_current
Index
Figs. 4-5 of Application
Figs. 7-8 of Application
US 6,692,343
360
350
340
330
320
310
300
290
280
1
2923
5846
8769
11692
14615
17538
20461
23384
26307
29230

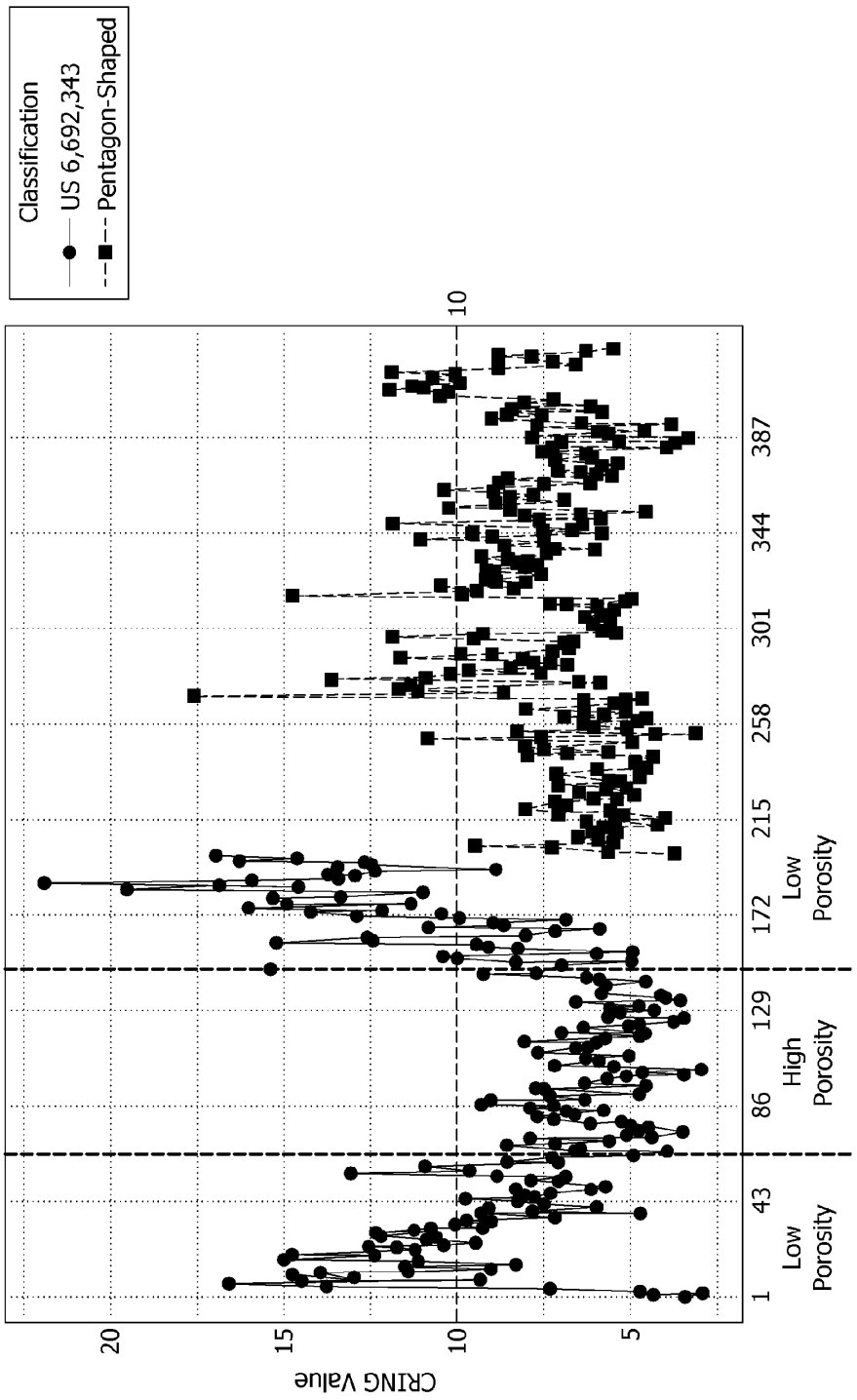
[Fig. 17]


DIC by wheel type at COUNT 0
93.00%
92.00%
91.00%
90.00%
89.00%
88.00%
87.00%
86.00%
Pentagon Shaped
US 6,692,343

[Fig. 18]



[Fig. 19]


Classification
US 6,692,343
Pentagon-Shaped
CRING Value
20
15
10
5
10
1
43
86
129
172
215
258
301
344
387
Low Porosity
High Porosity
Low Porosity