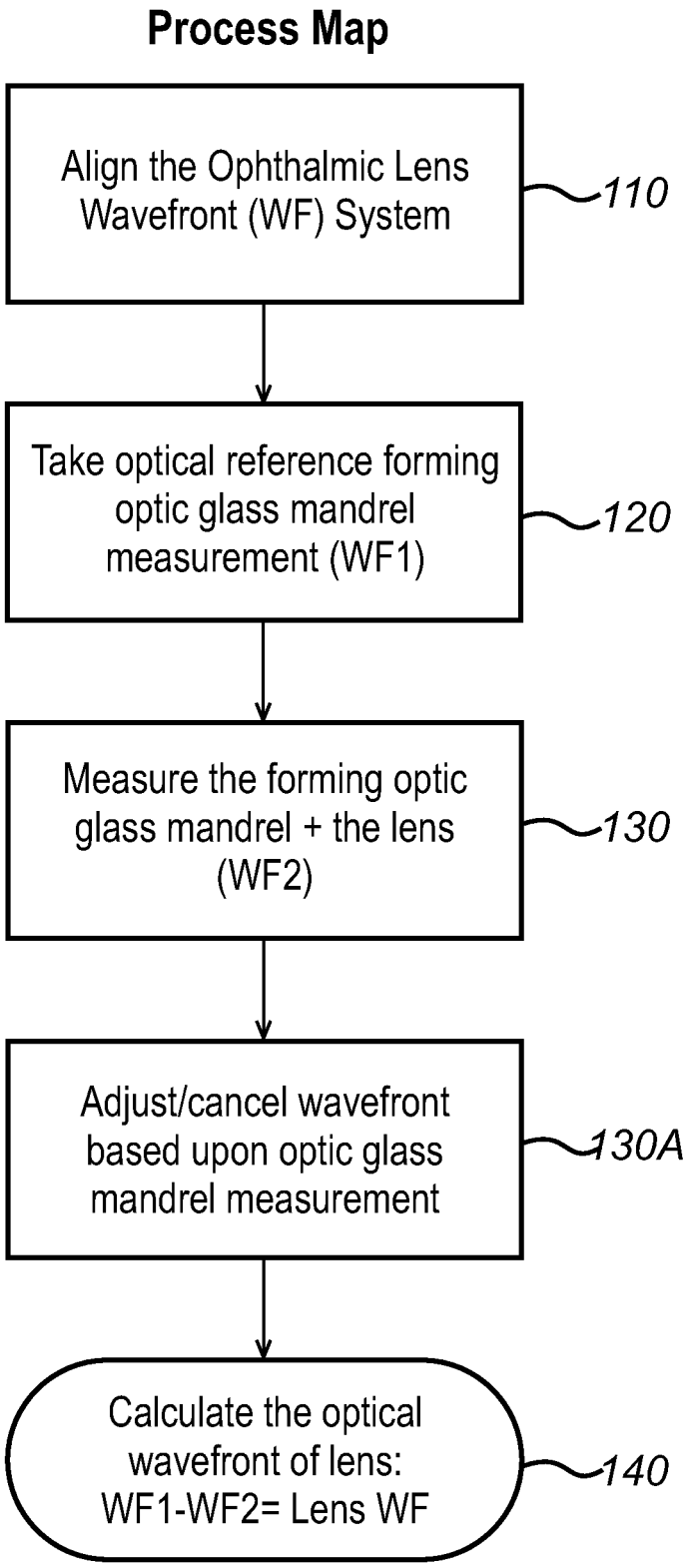
FIG. 1


Process Map
Align the Ophthalmic Lens Wavefront (WF) System
110
Take optical reference forming optic glass mandrel measurement (WF1)
120
Measure the forming optic glass mandrel + the lens (WF2)
130
Adjust/cancel wavefront based upon optic glass mandrel measurement
130A
Calculate the optical wavefront of lens: WF1-WF2= Lens WF
140

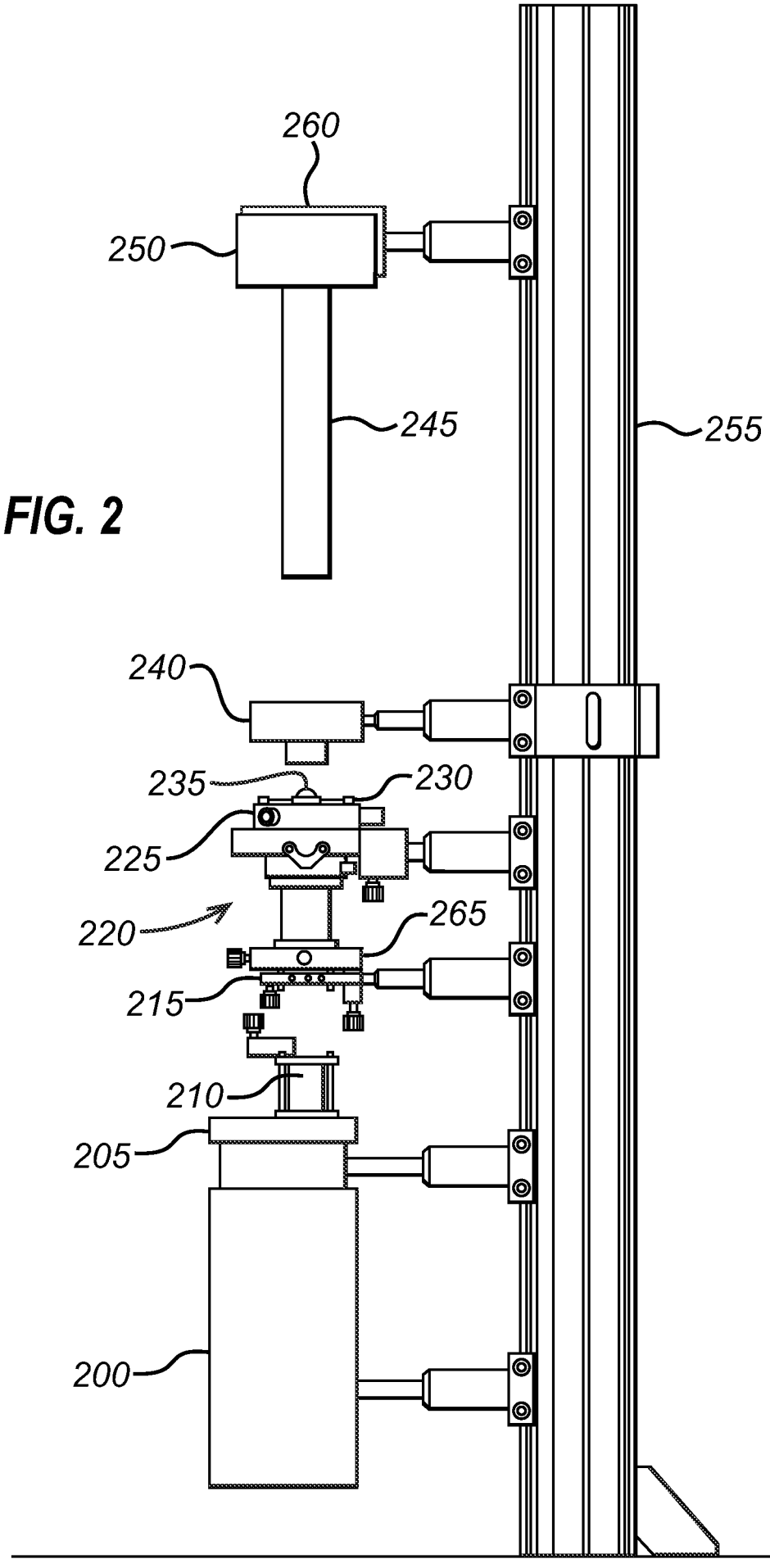


FIG. 2

FIG. 3

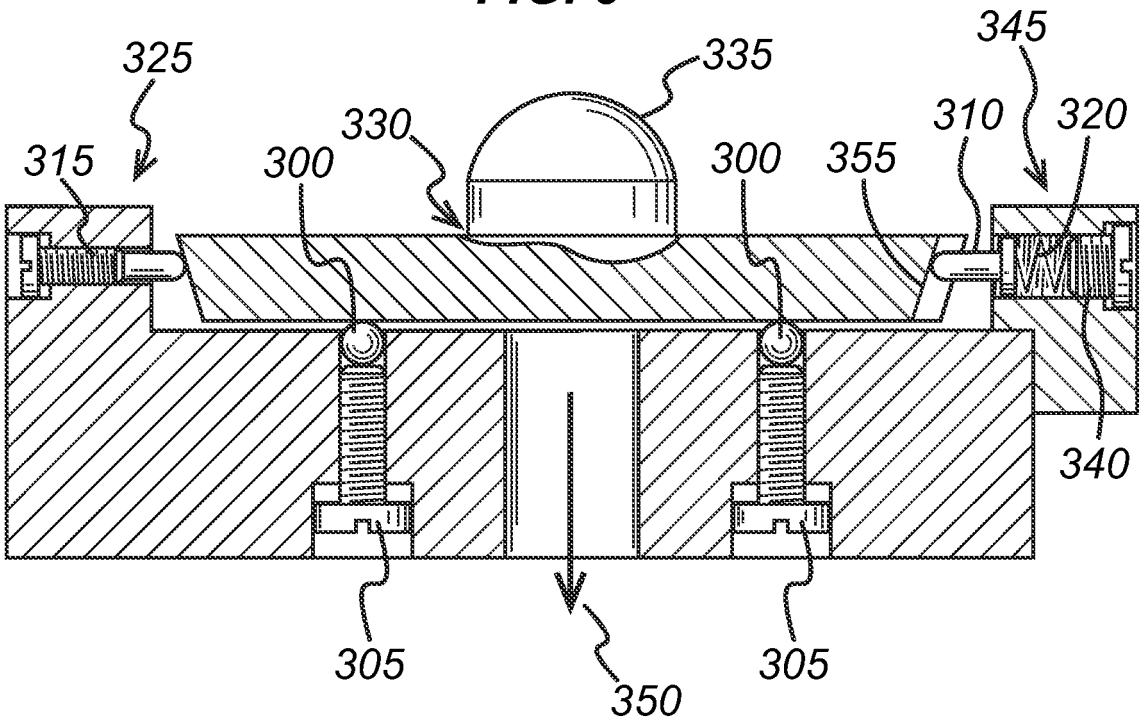
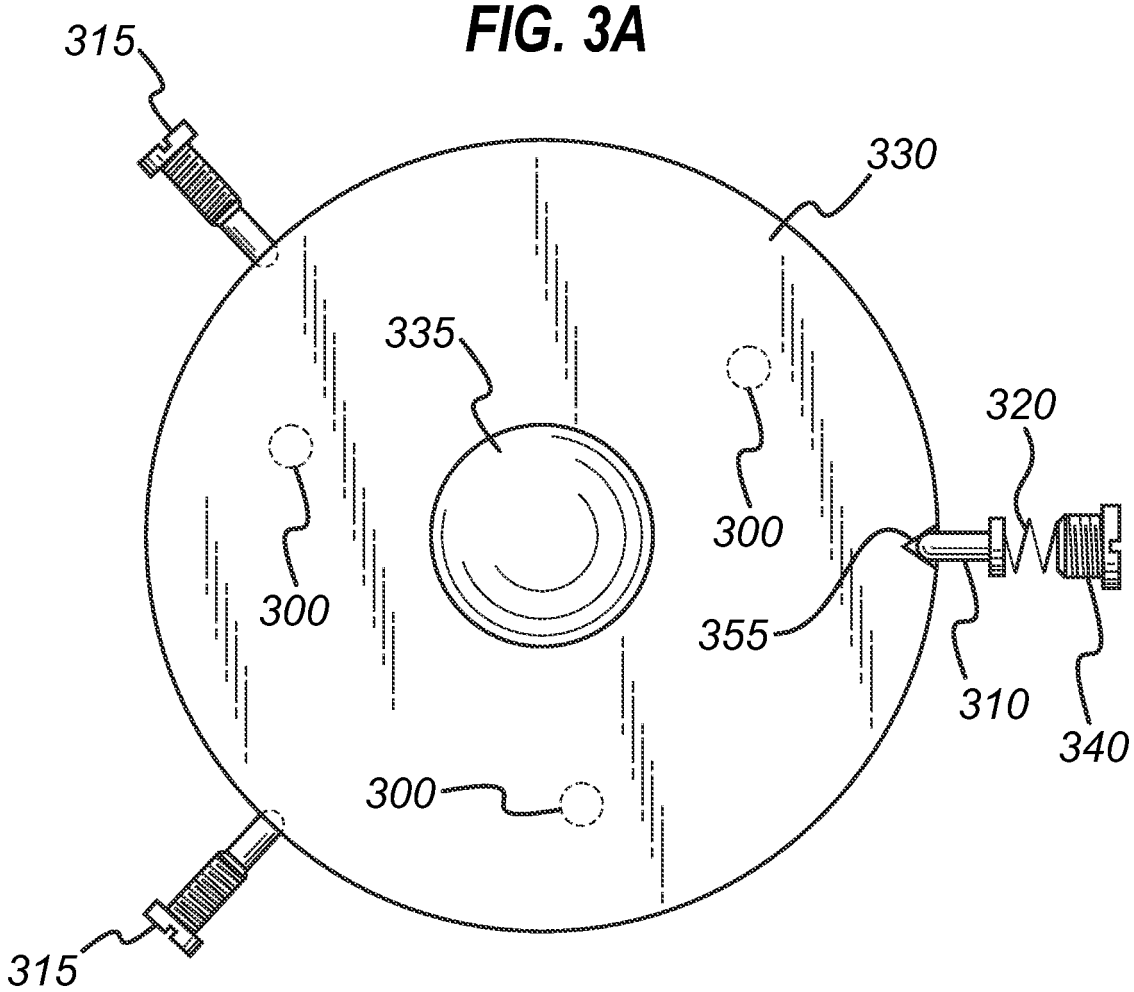

325
335
345
330
310
320
315
300
300
355
340
305
350
305

FIG. 3A


315
330
335
320
300
300
355
310
340
300
315

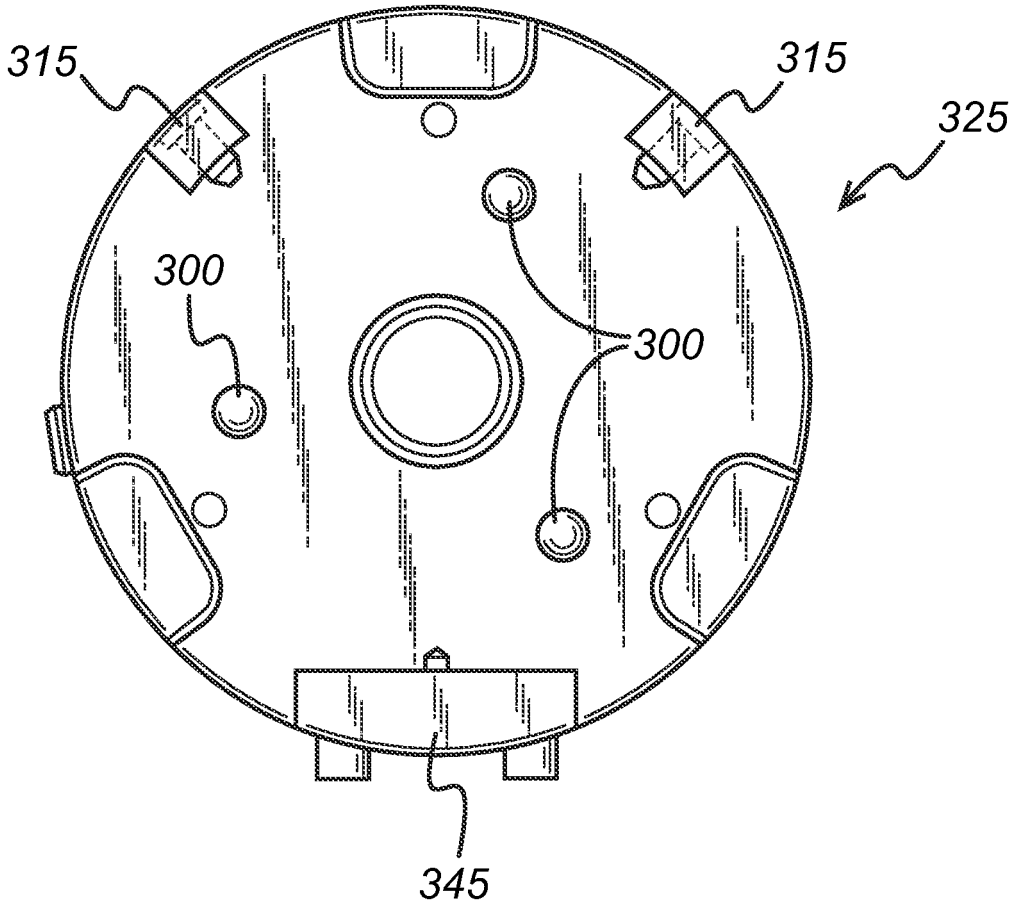
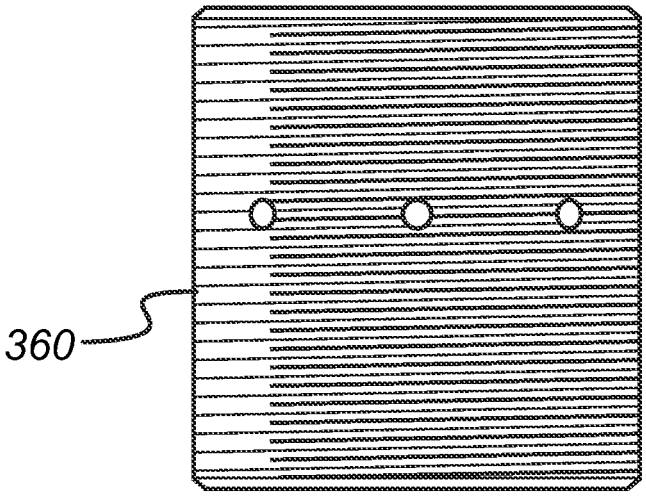


FIG. 3B



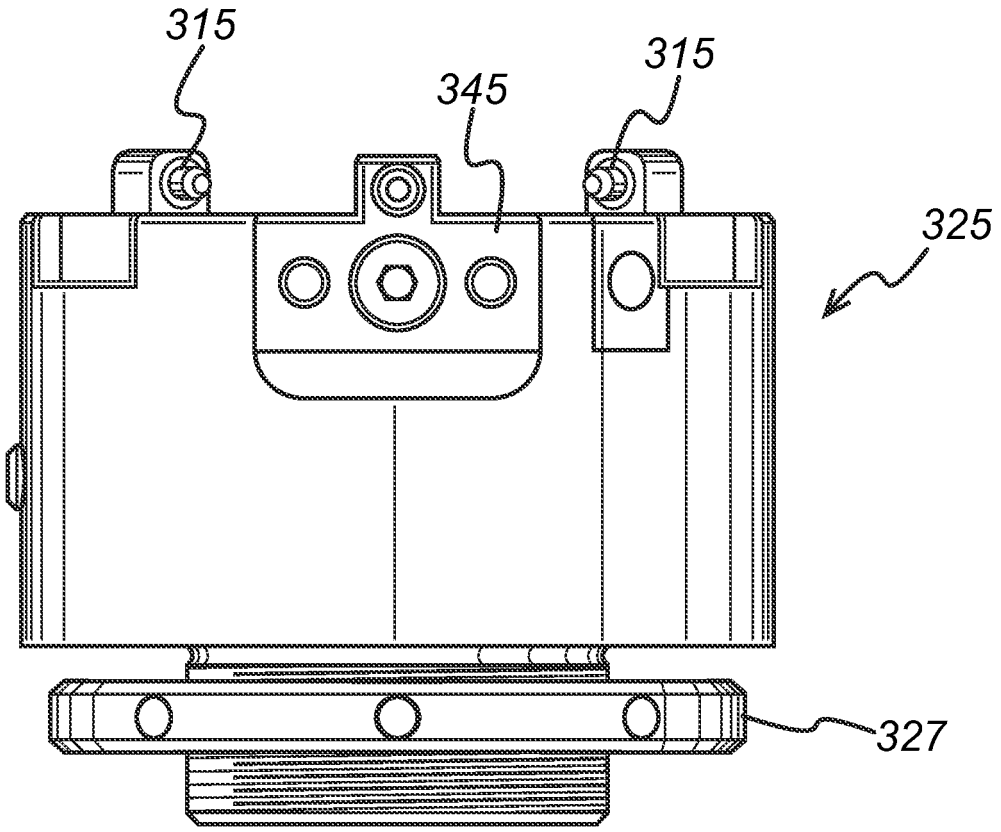


FIG. 3B(contd)

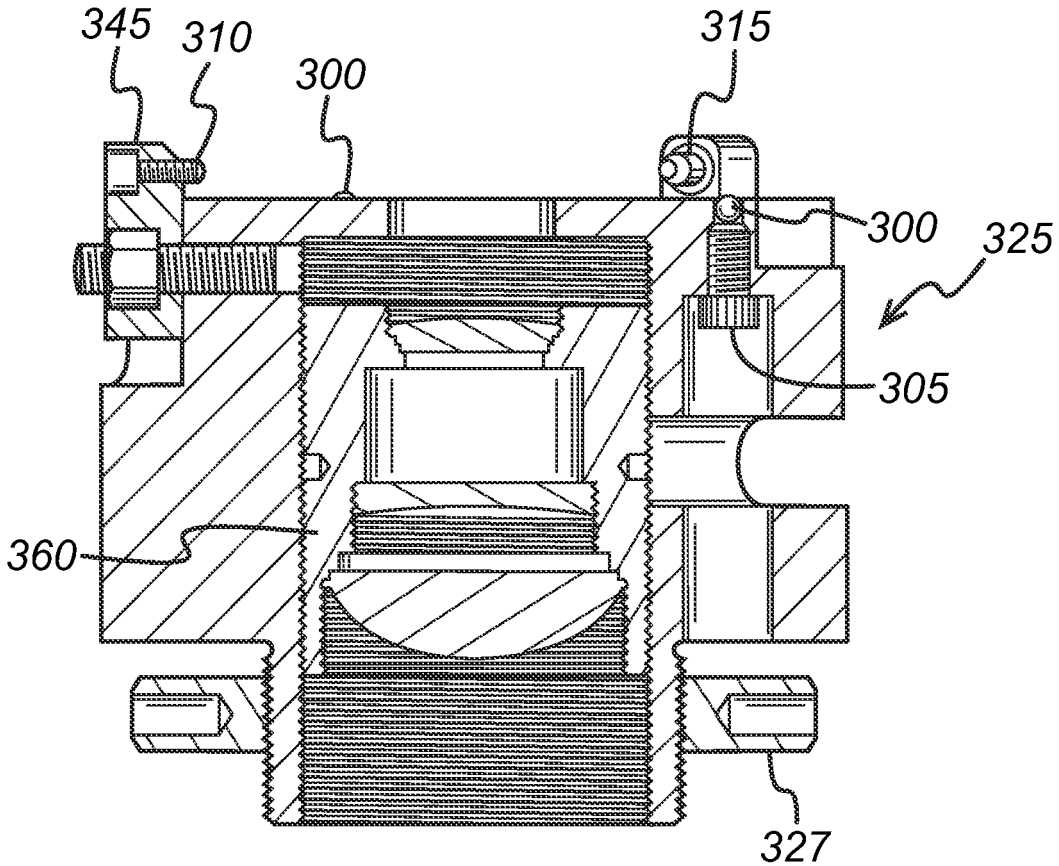


FIG. 4 Mandrel Optical Cancellation

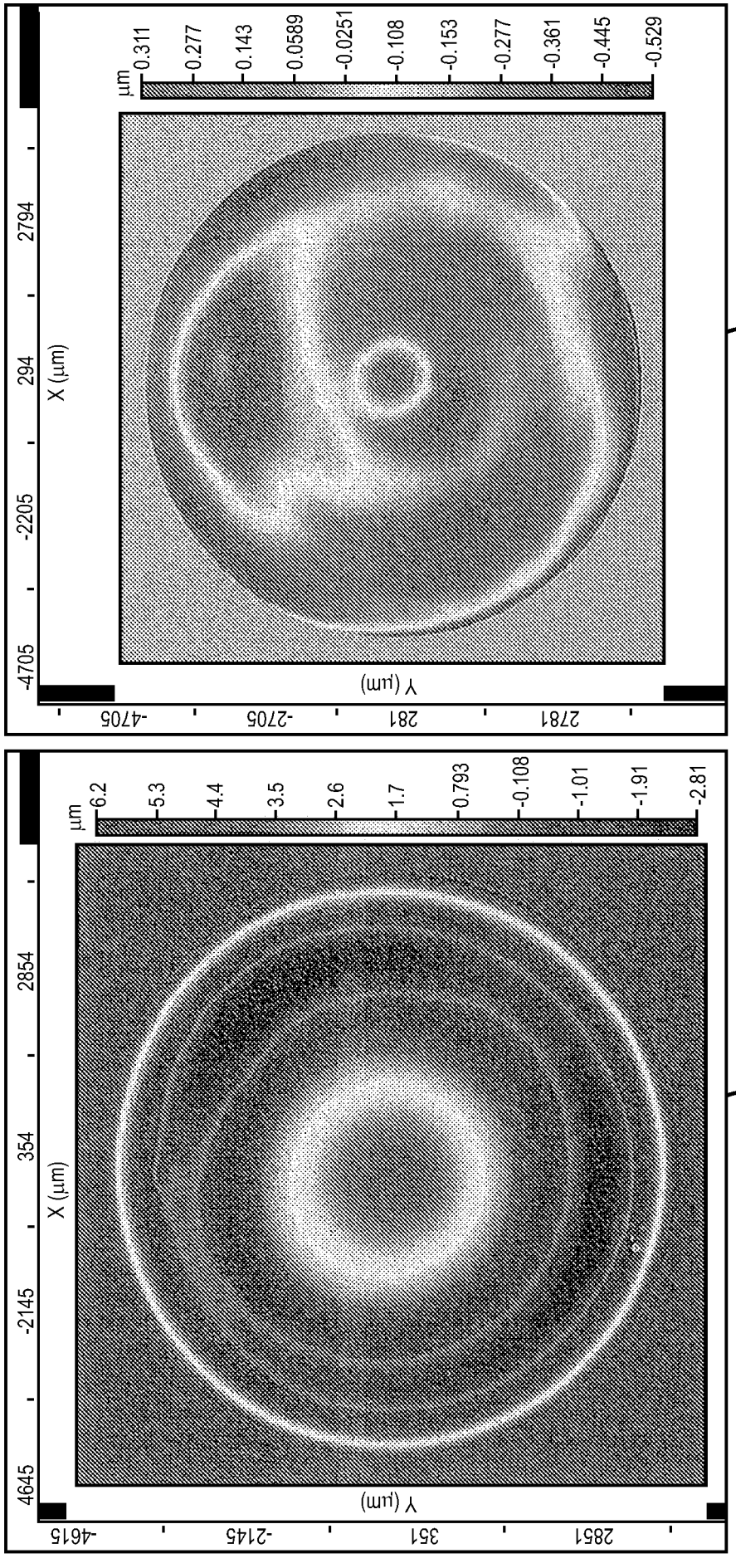
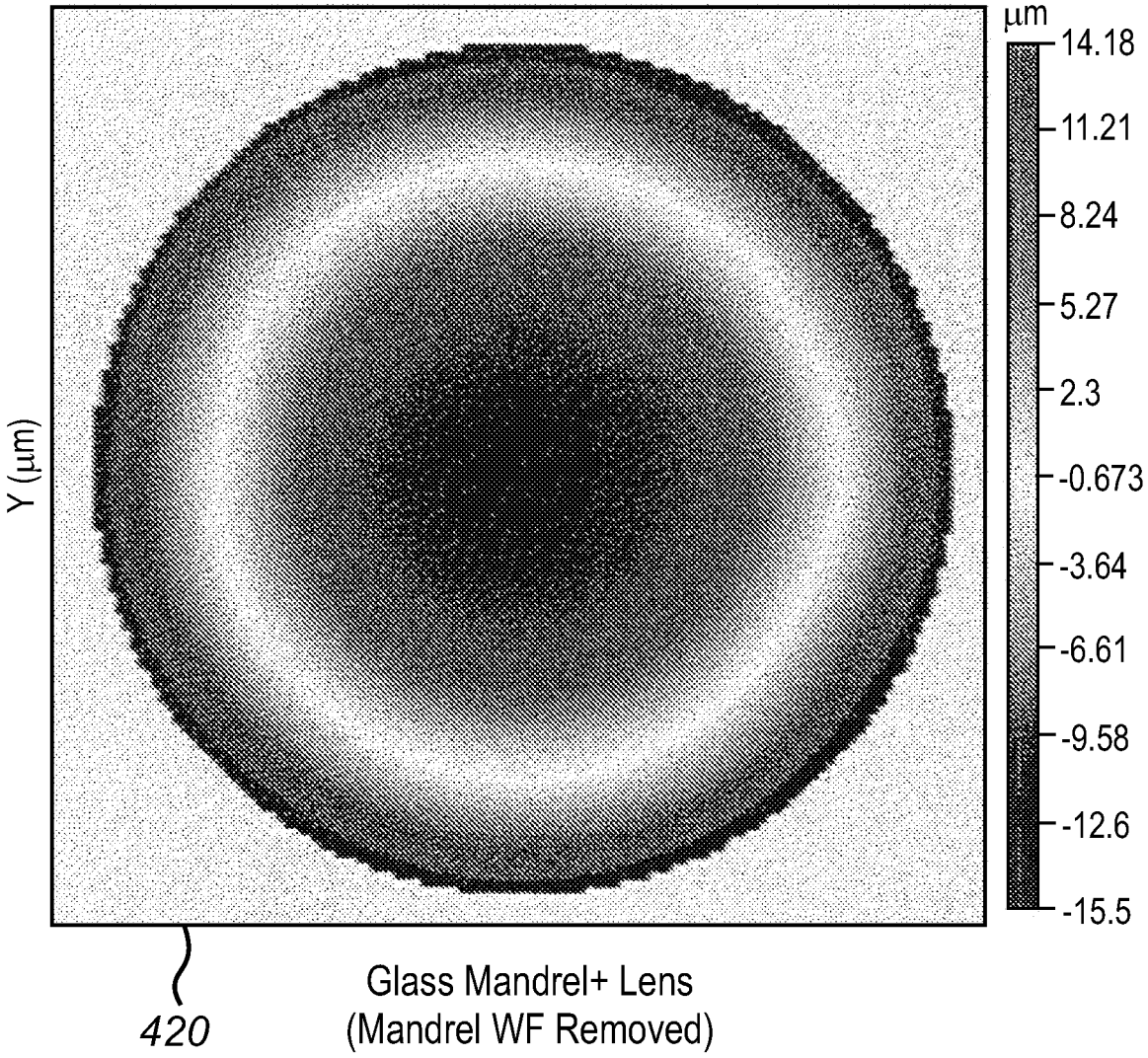


FIG. 4A

Custom Optic WF Measurement



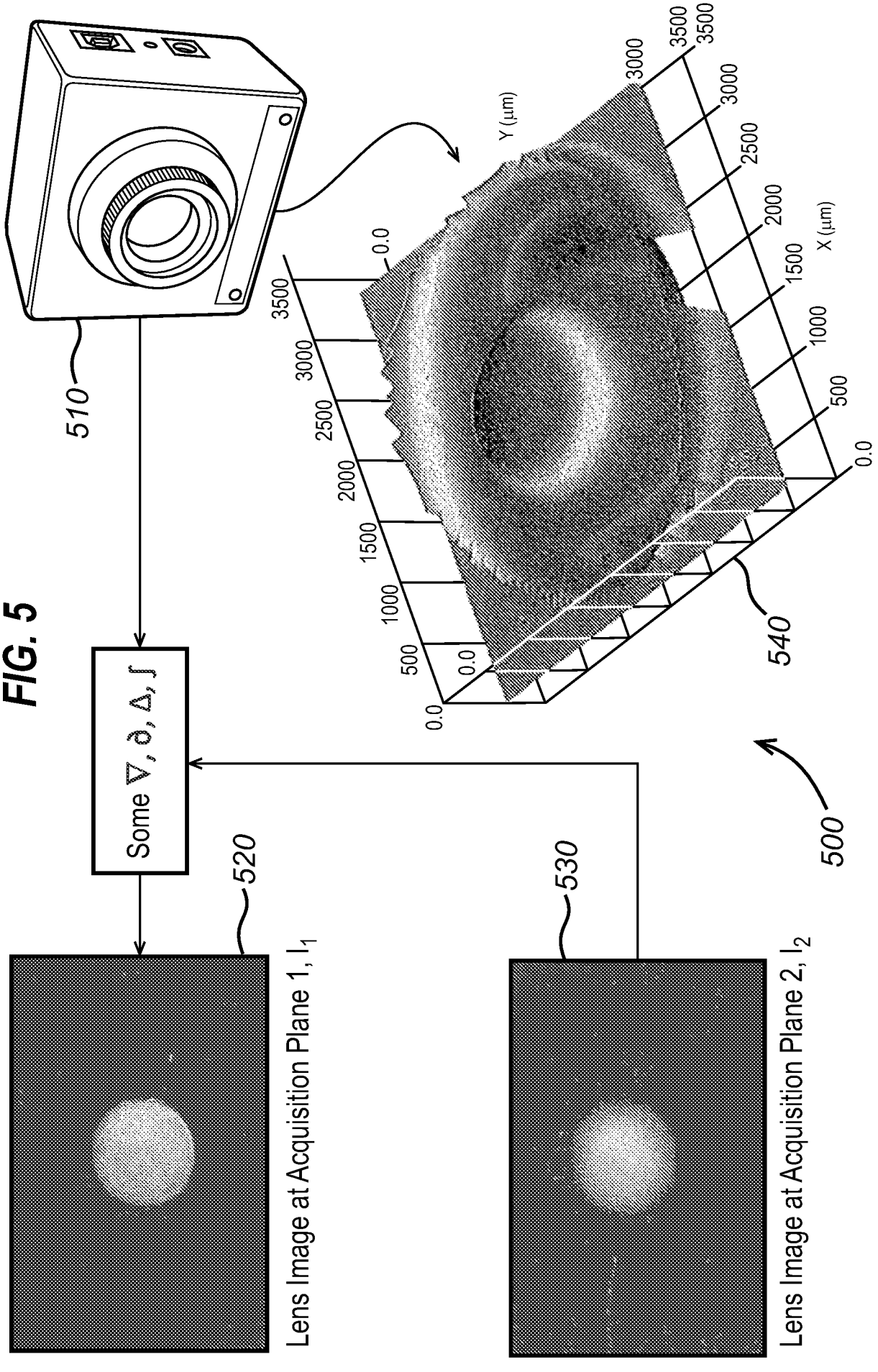

510
Y (μm)
X (μm)
0.0
500
1000
1500
2000
2500
3000
3500
540
Some ∇, ∂, Δ, ∫
520
Lens Image at Acquisition Plane 1, I_1
530
Lens Image at Acquisition Plane 2, I_2
500

FIG. 5