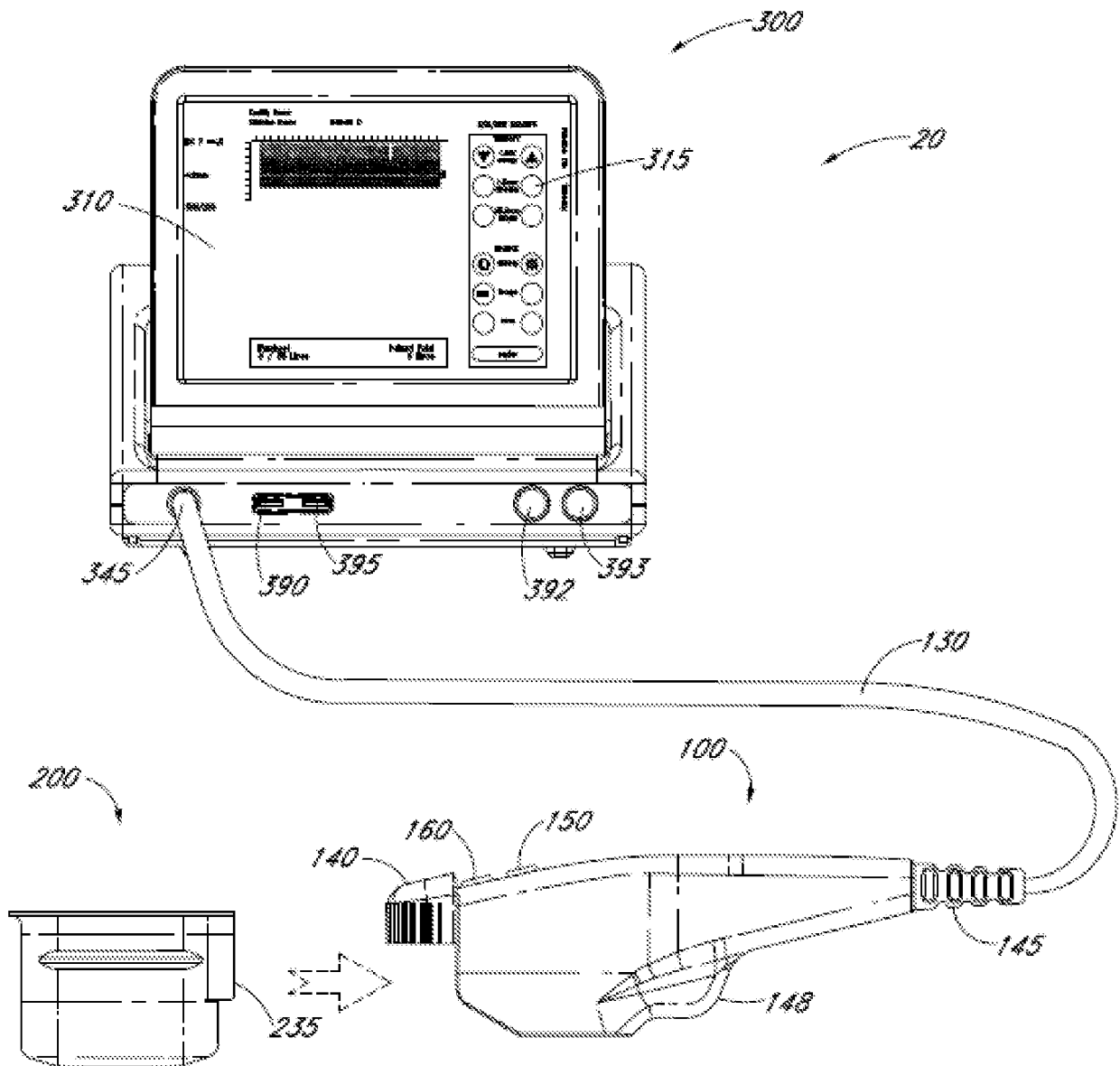


**FIG. 1**

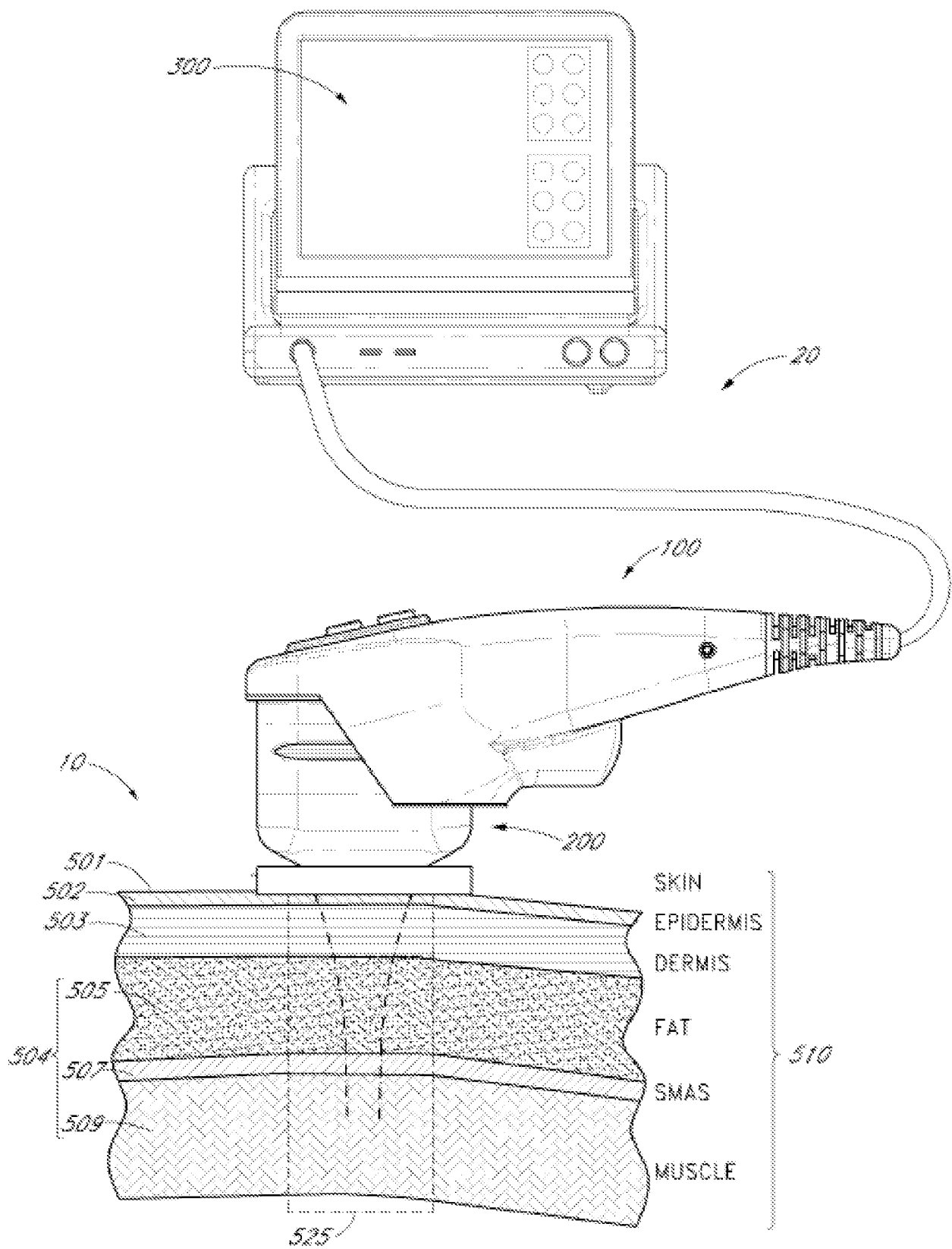
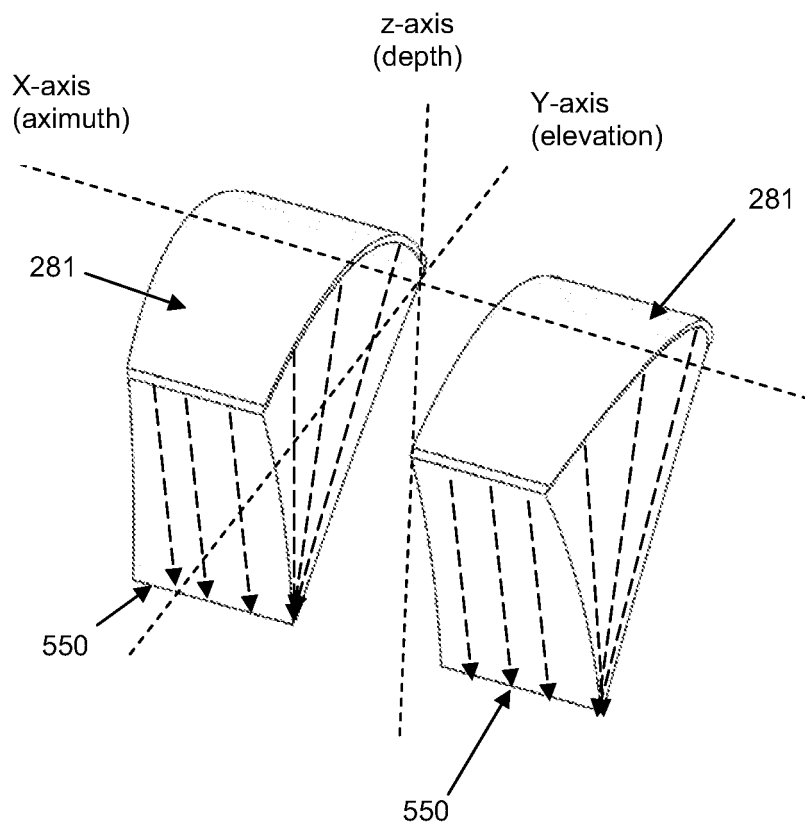
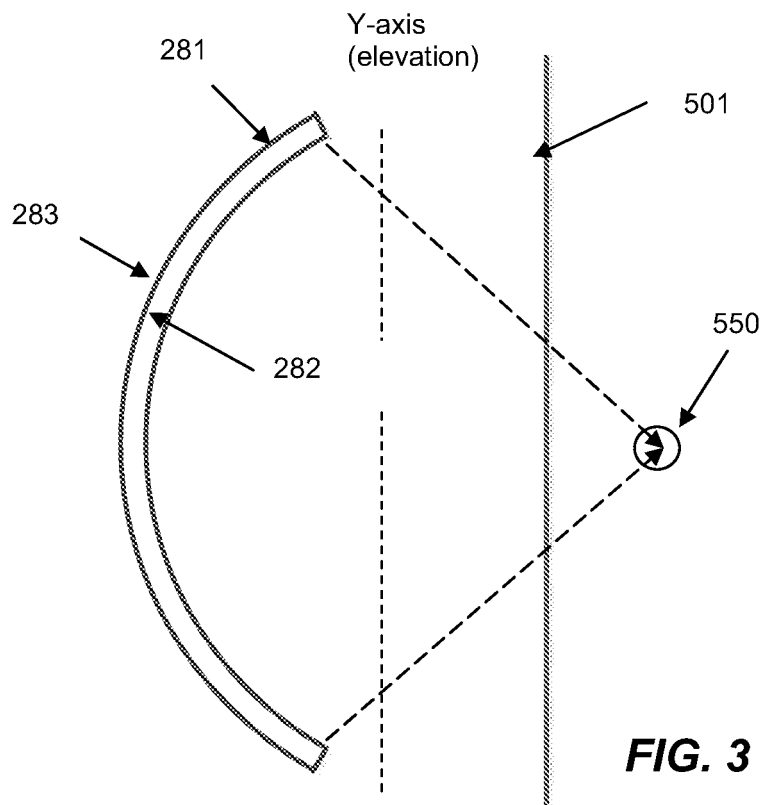


FIG. 2



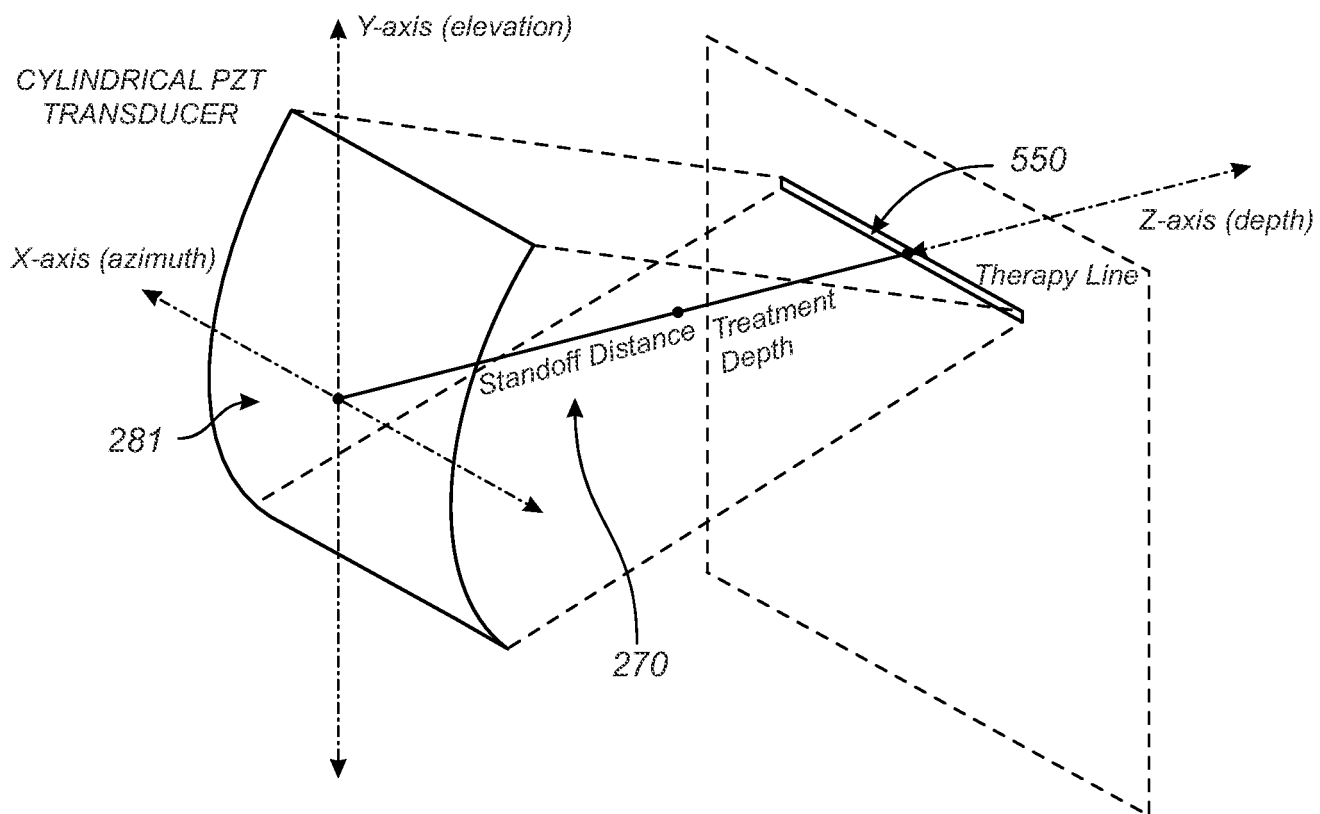


FIG. 5A

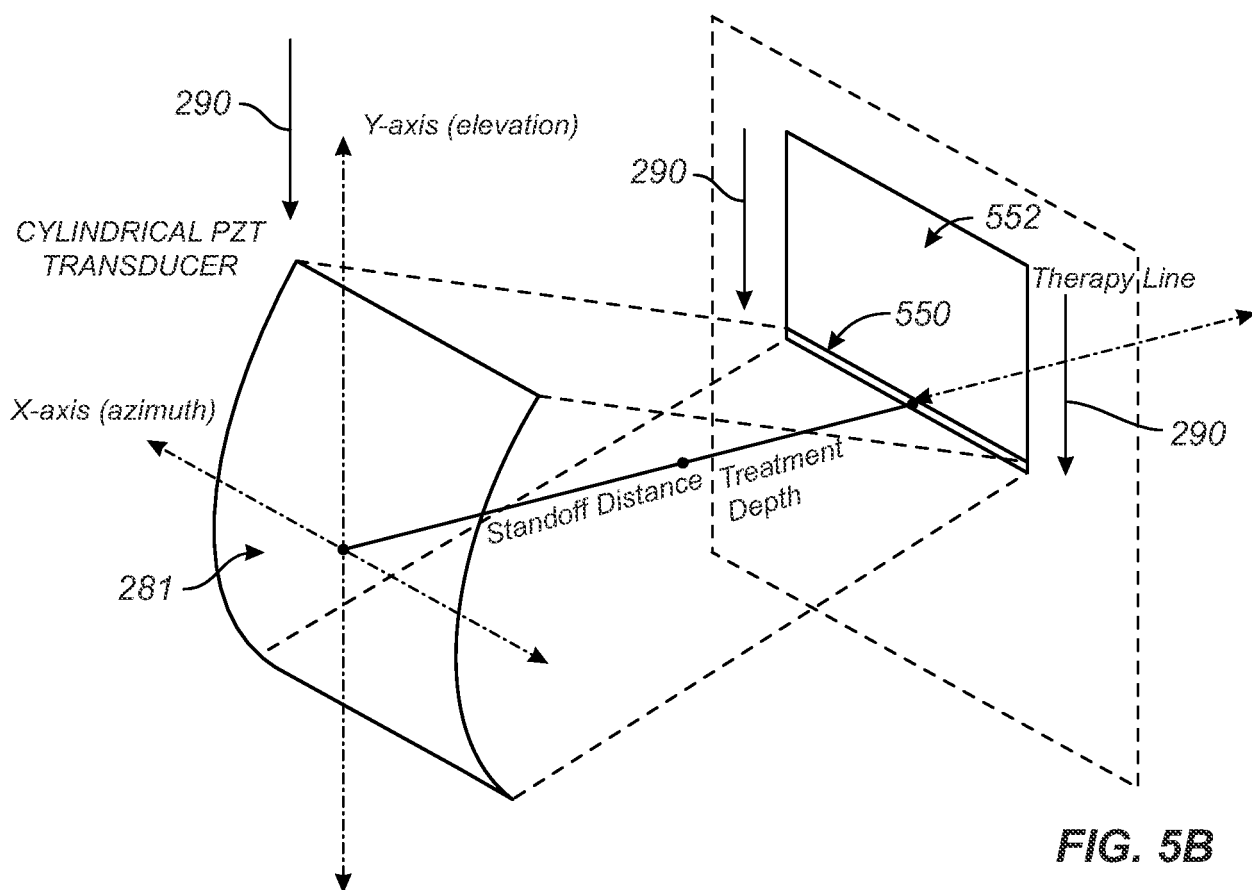


FIG. 5B

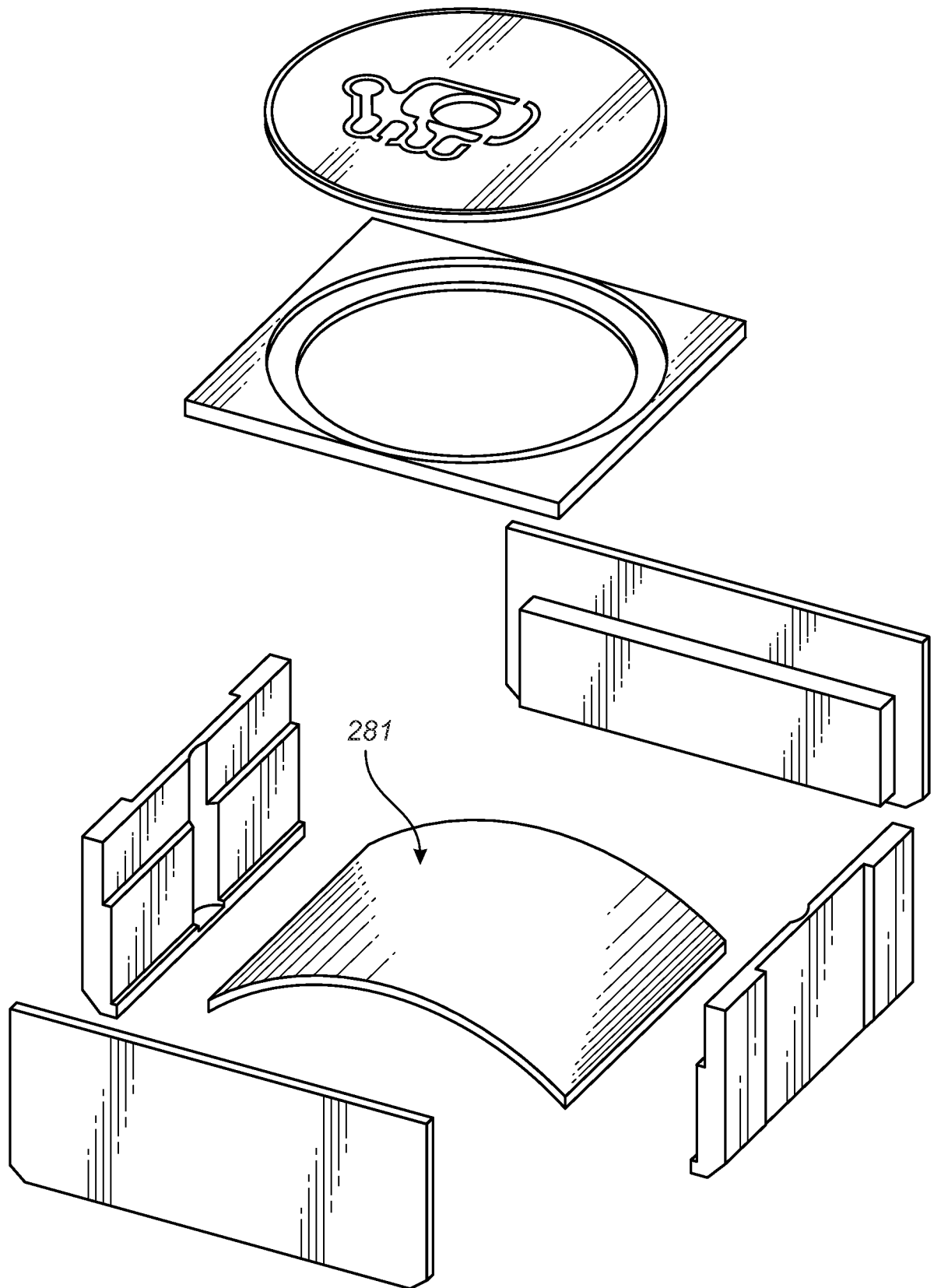


FIG. 6

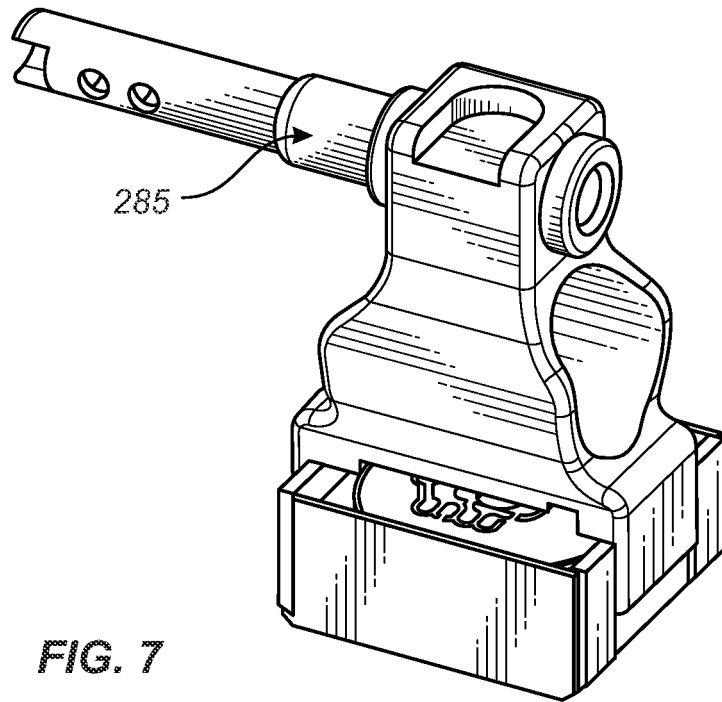


FIG. 7

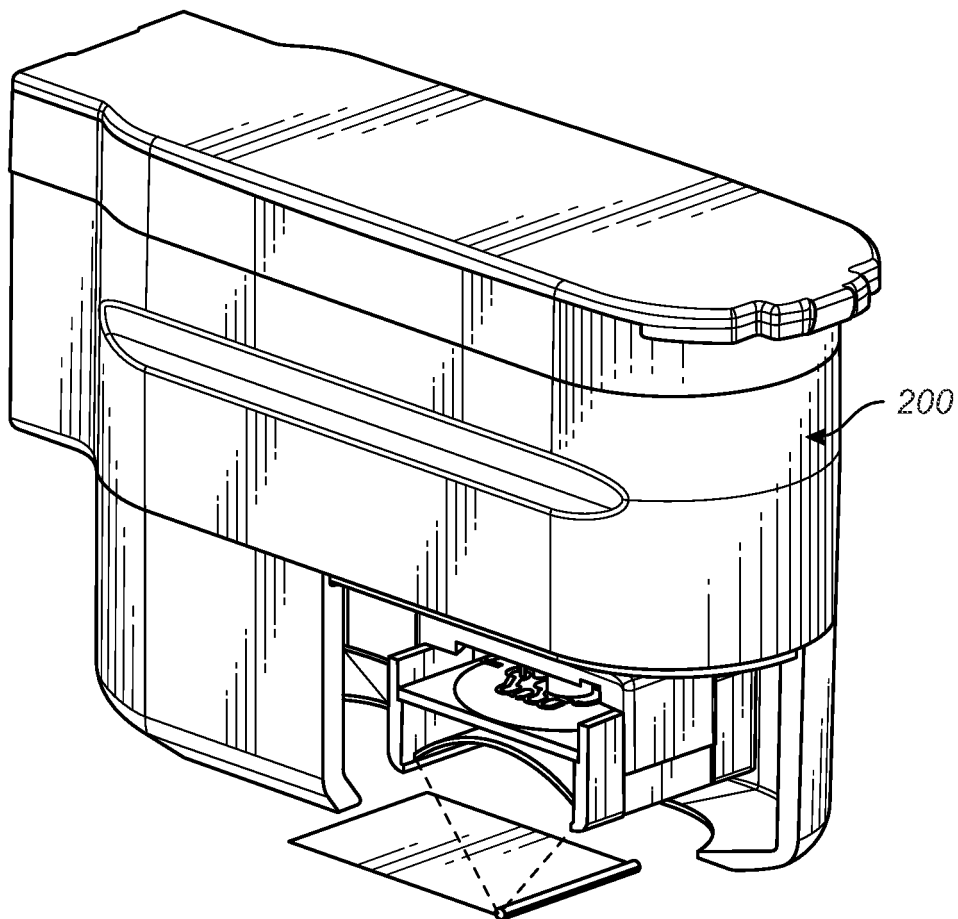


FIG. 8

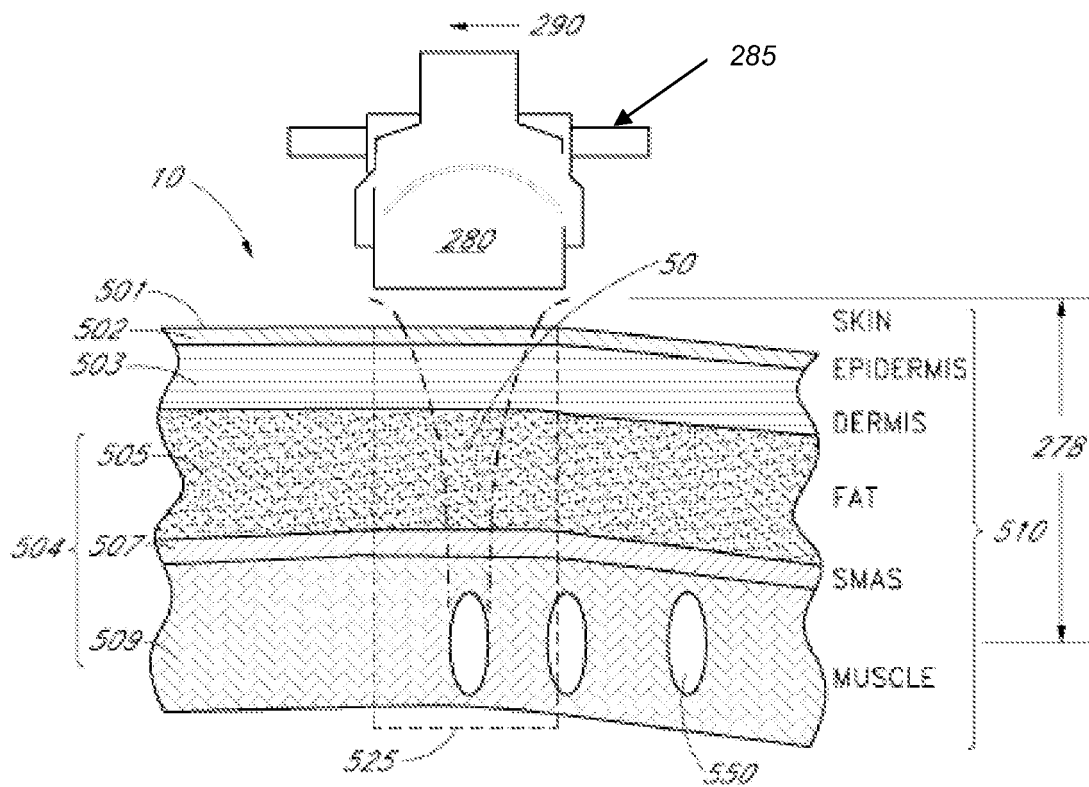


FIG. 9

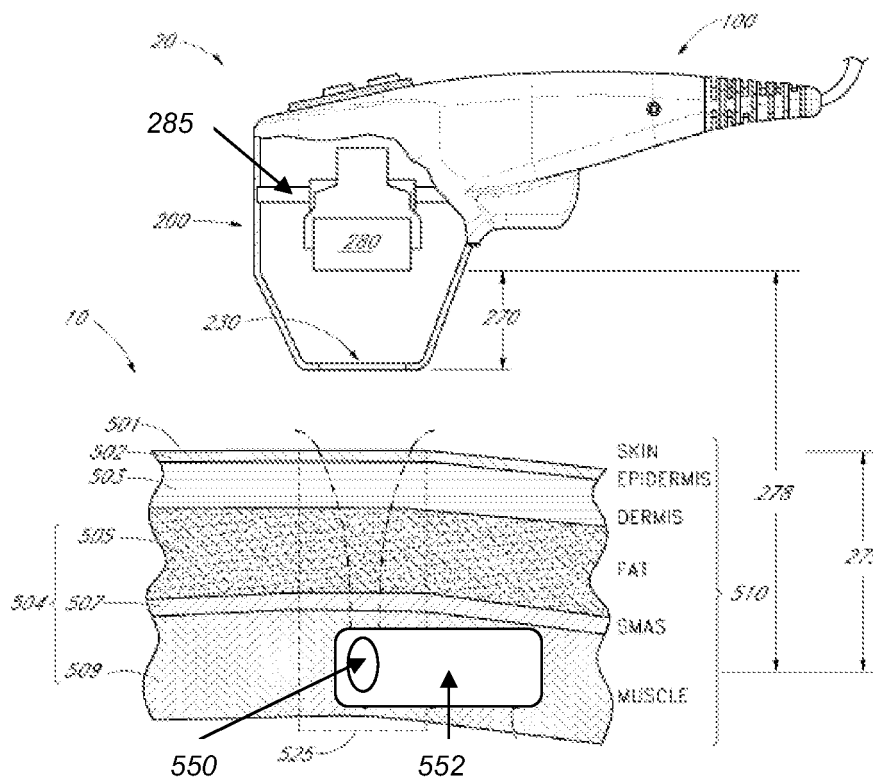
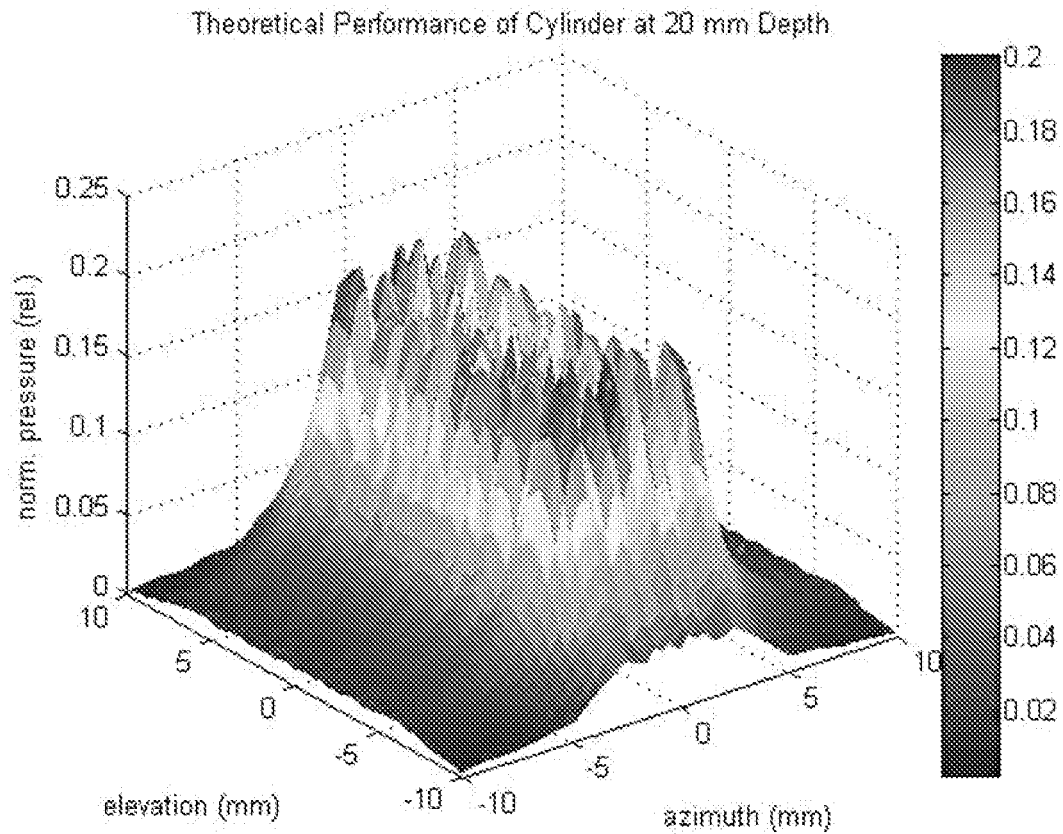
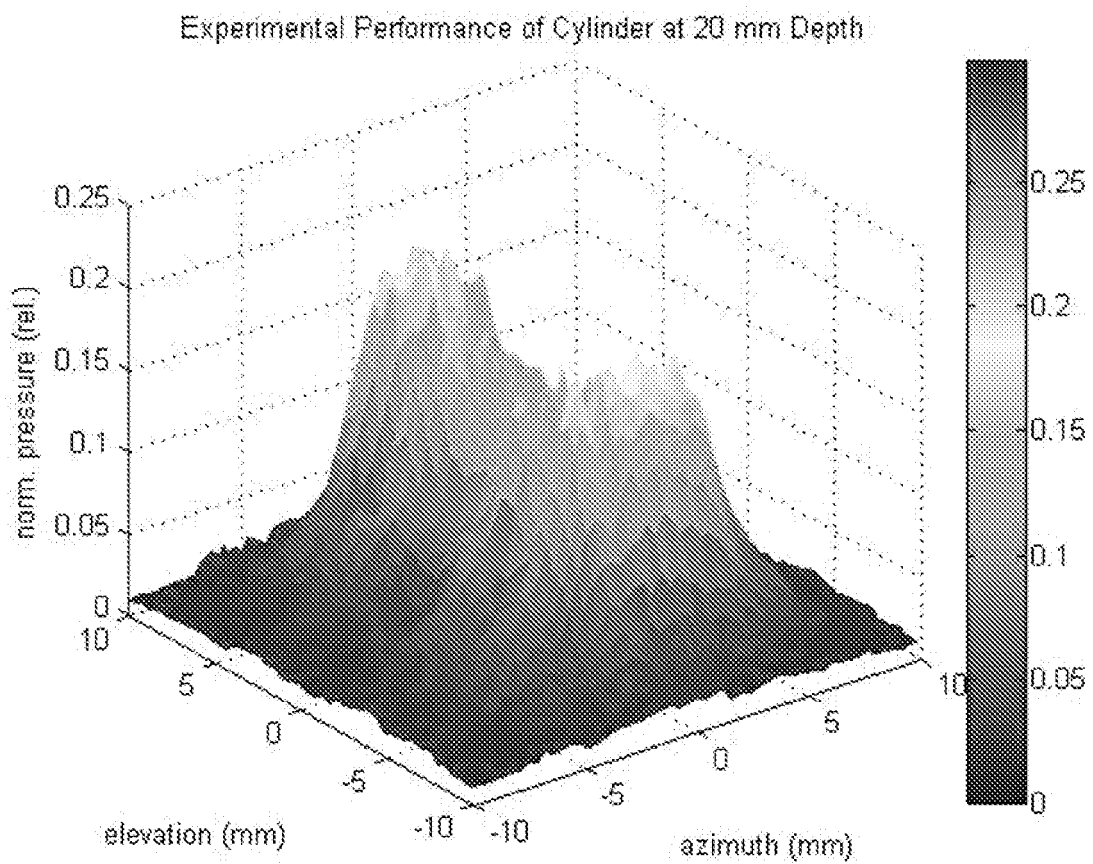
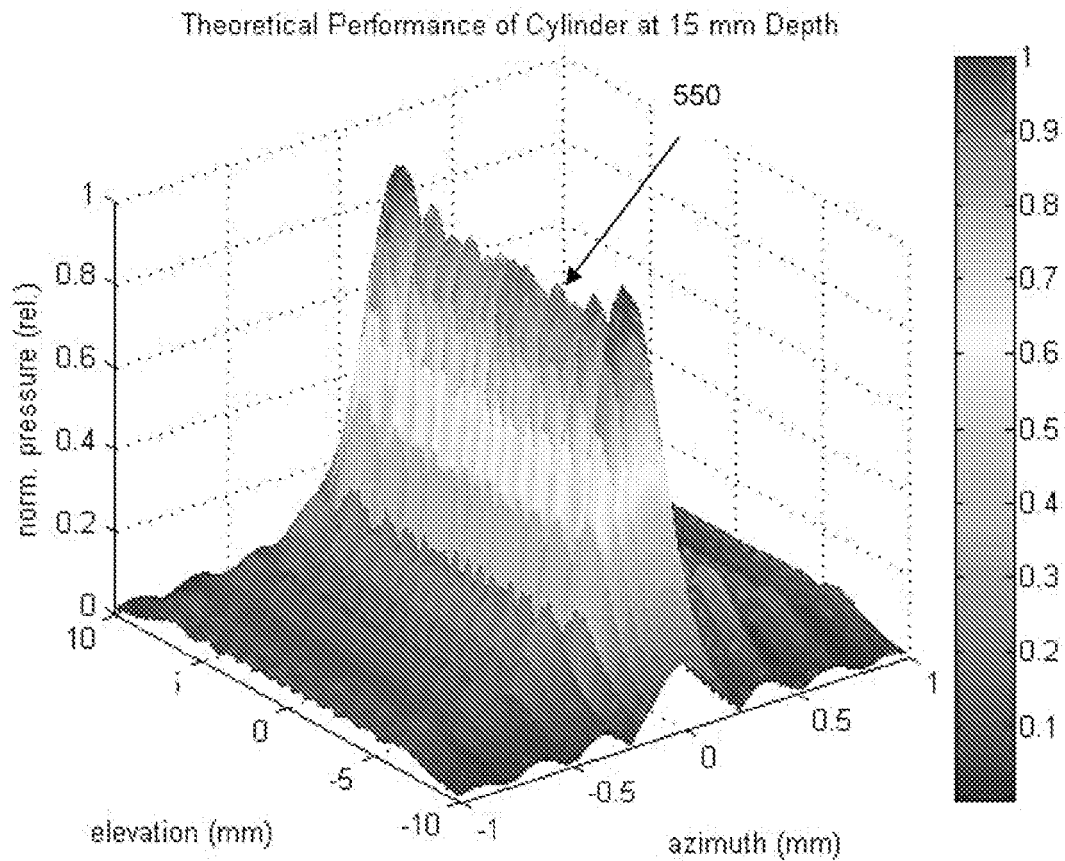
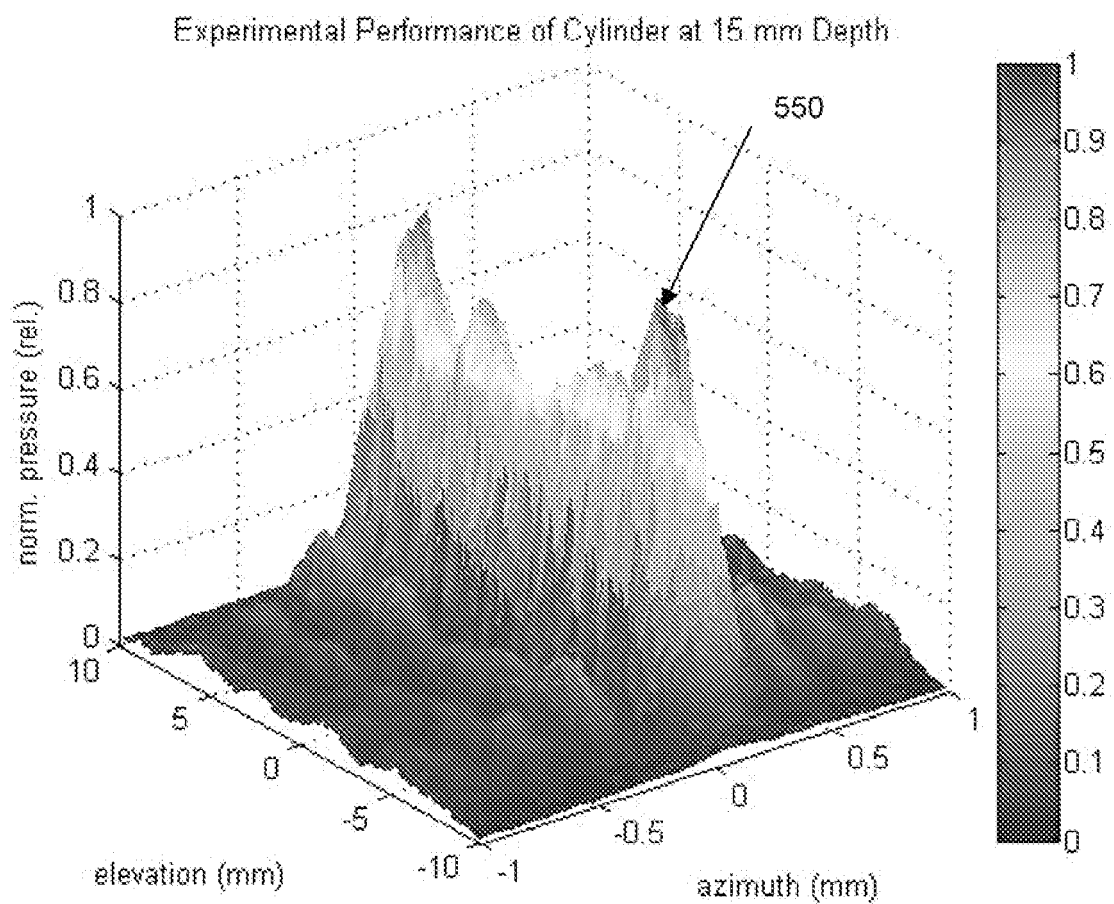
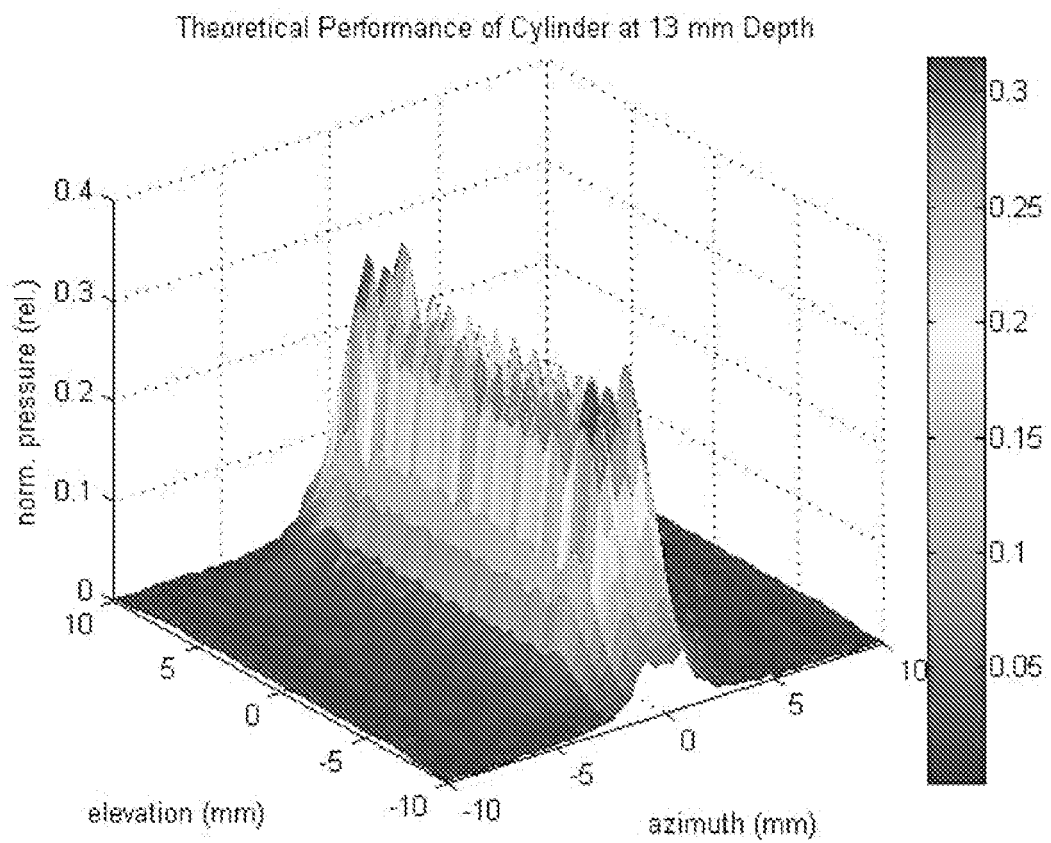
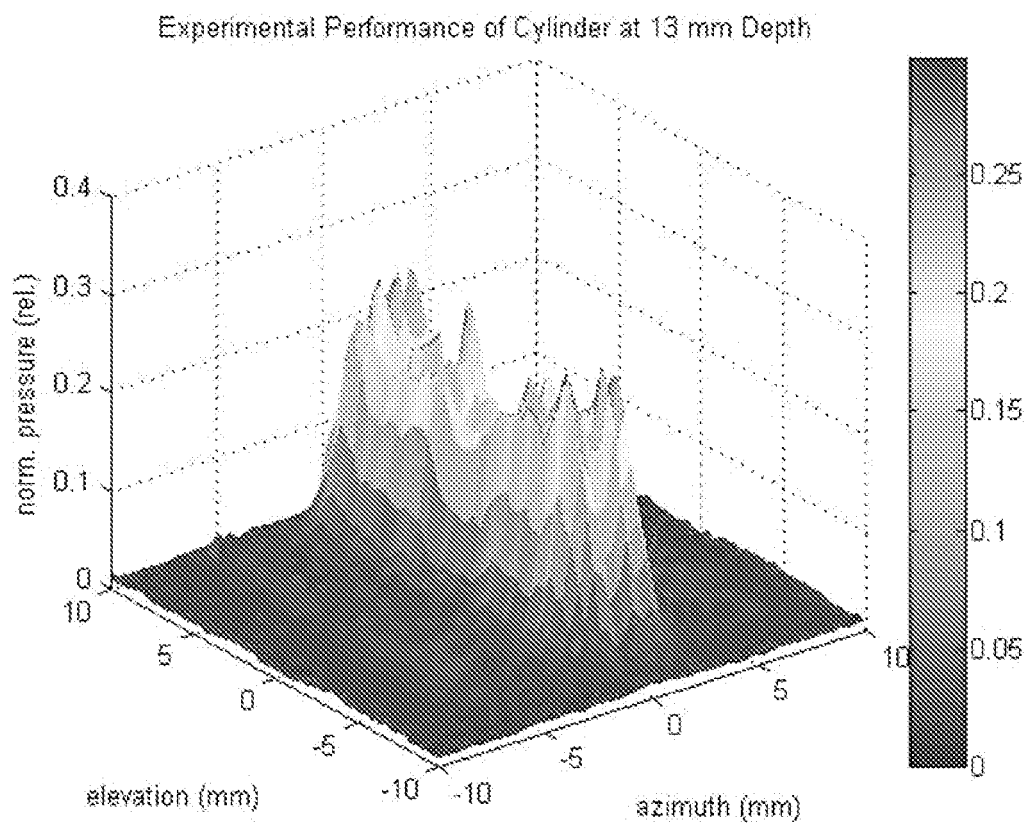


FIG. 10

**FIG. 11A****FIG. 11B**

**FIG. 12A****FIG. 12B**

**FIG. 13A****FIG. 13B**

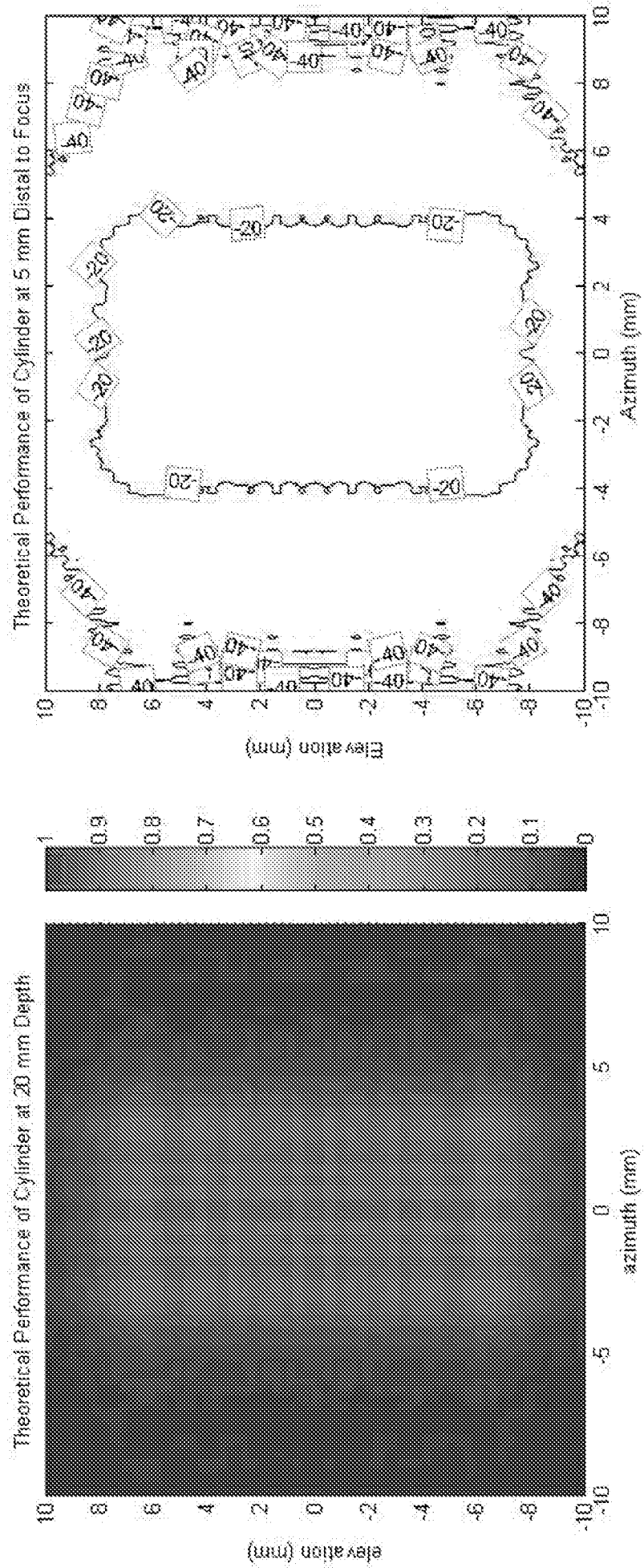


FIG. 14A

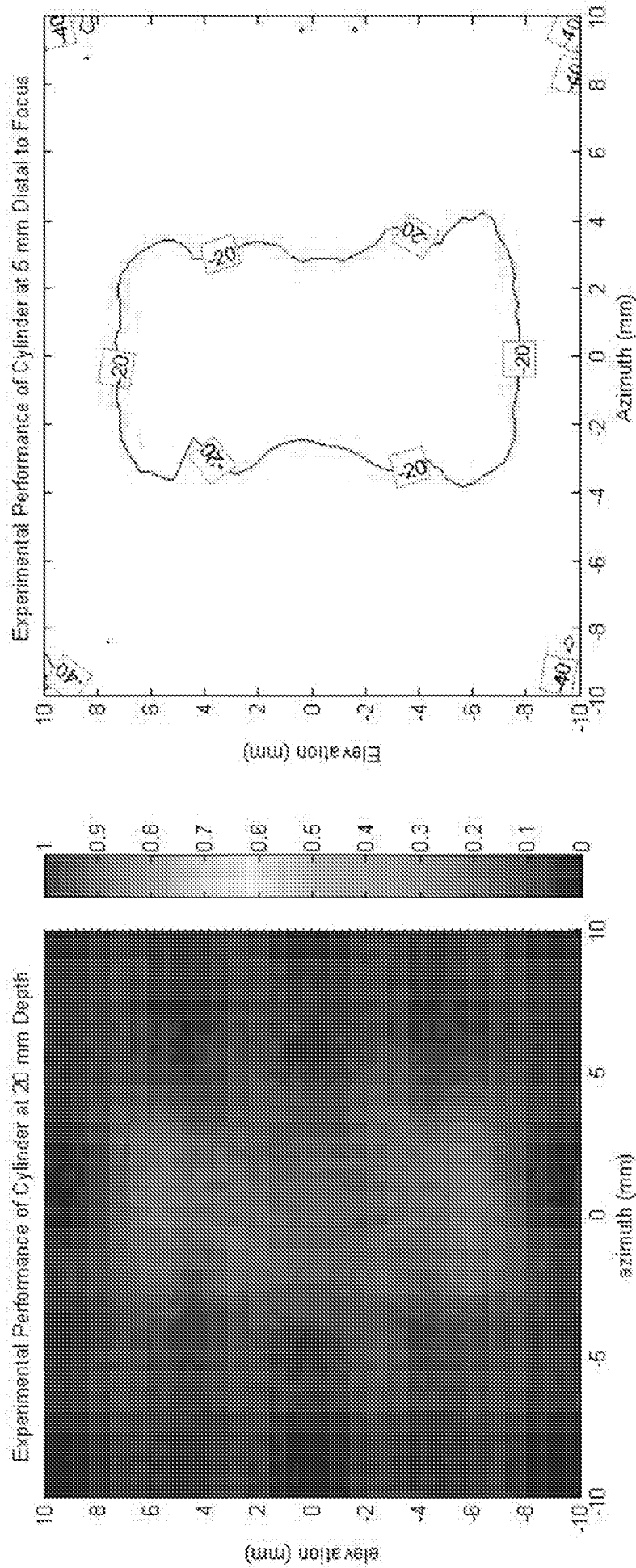


FIG. 14B

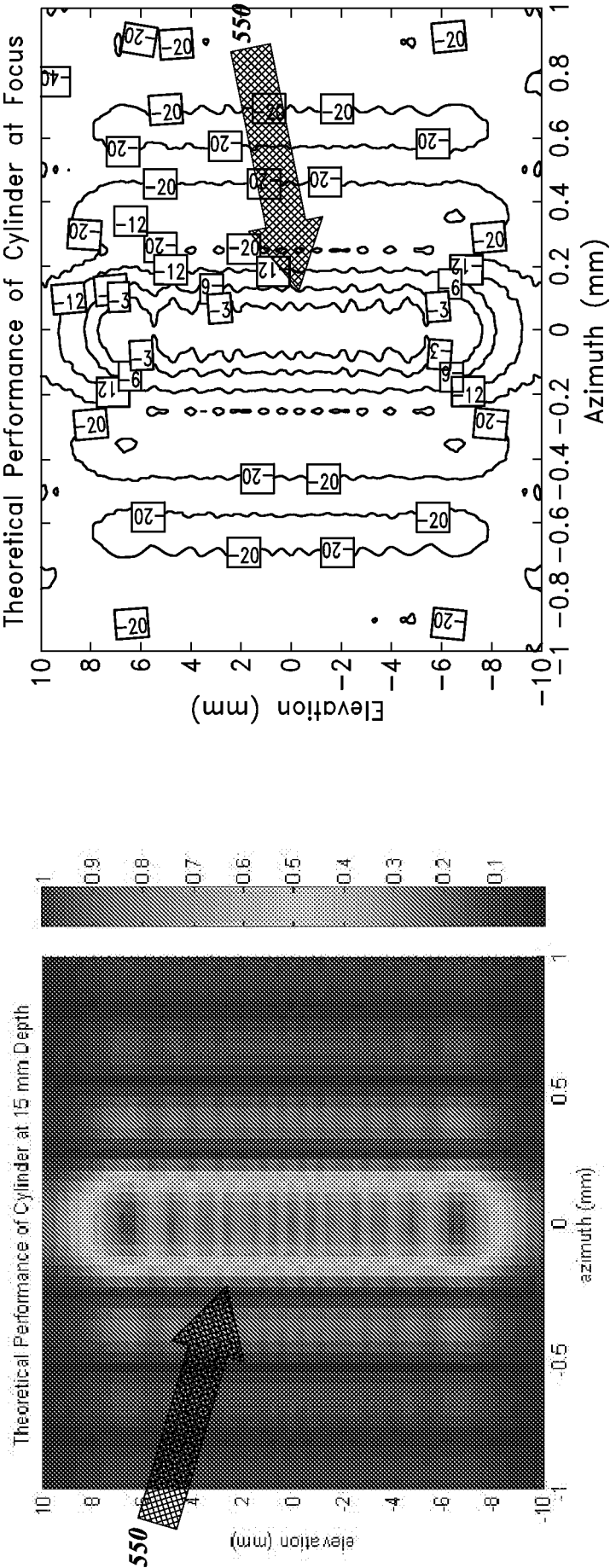


FIG. 15A

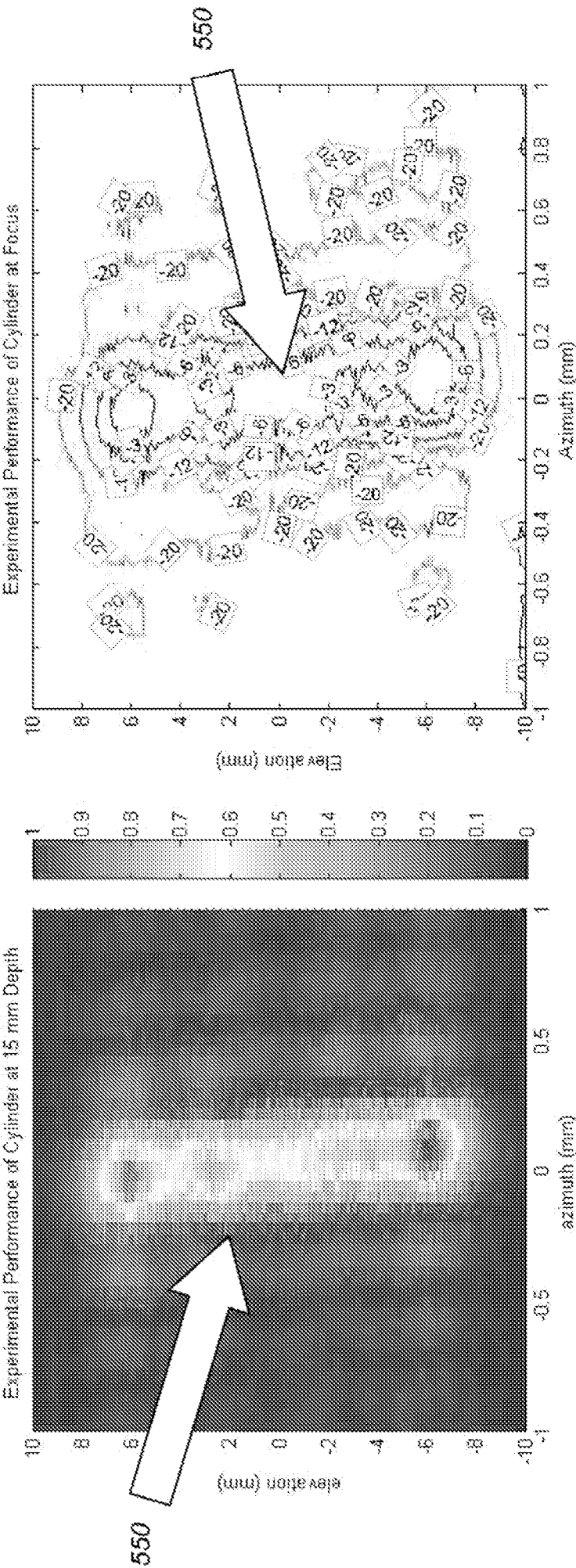


FIG. 15B

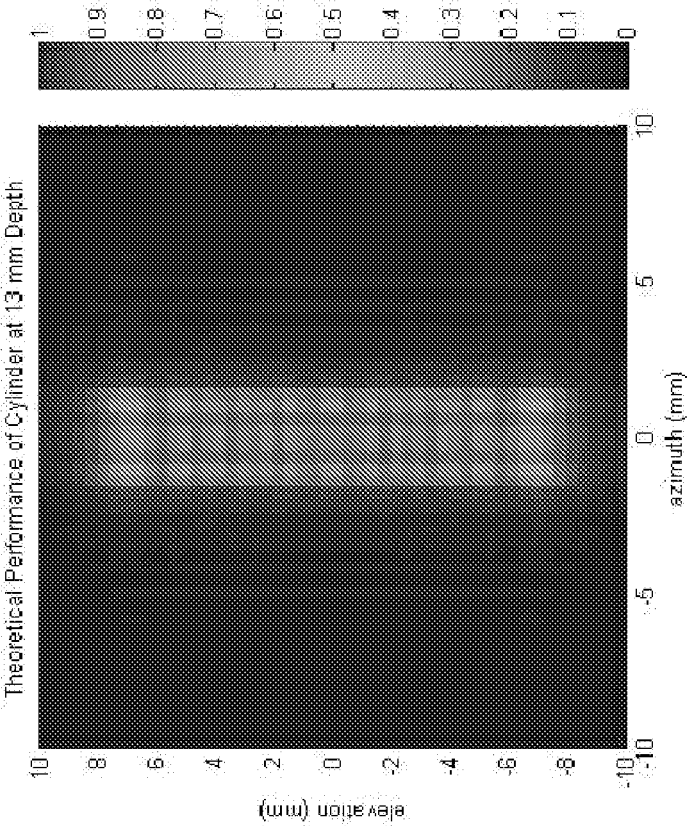
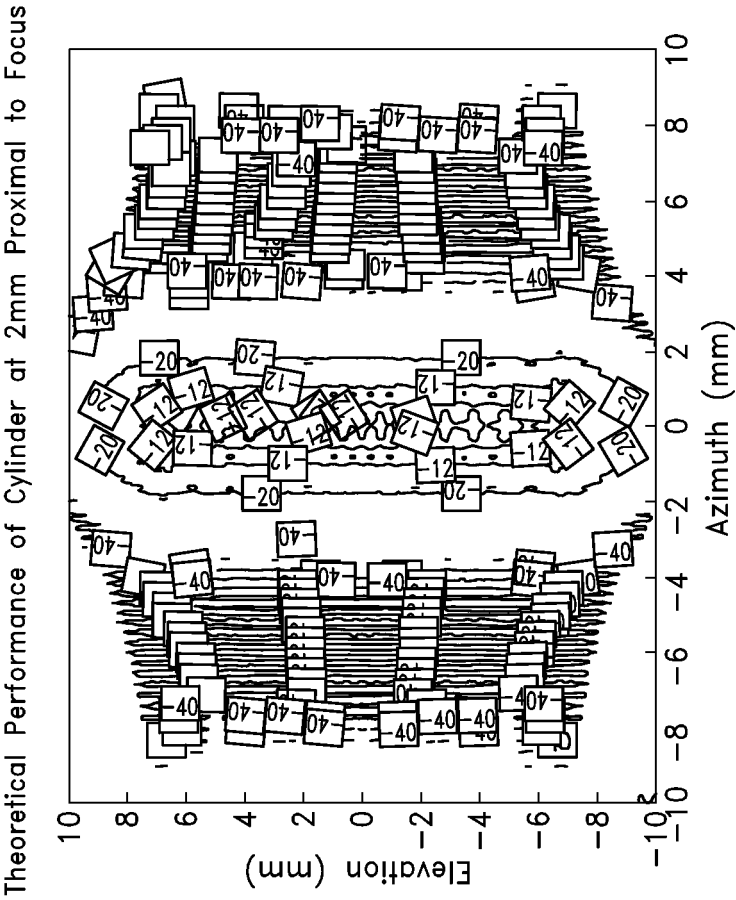


FIG. 16A

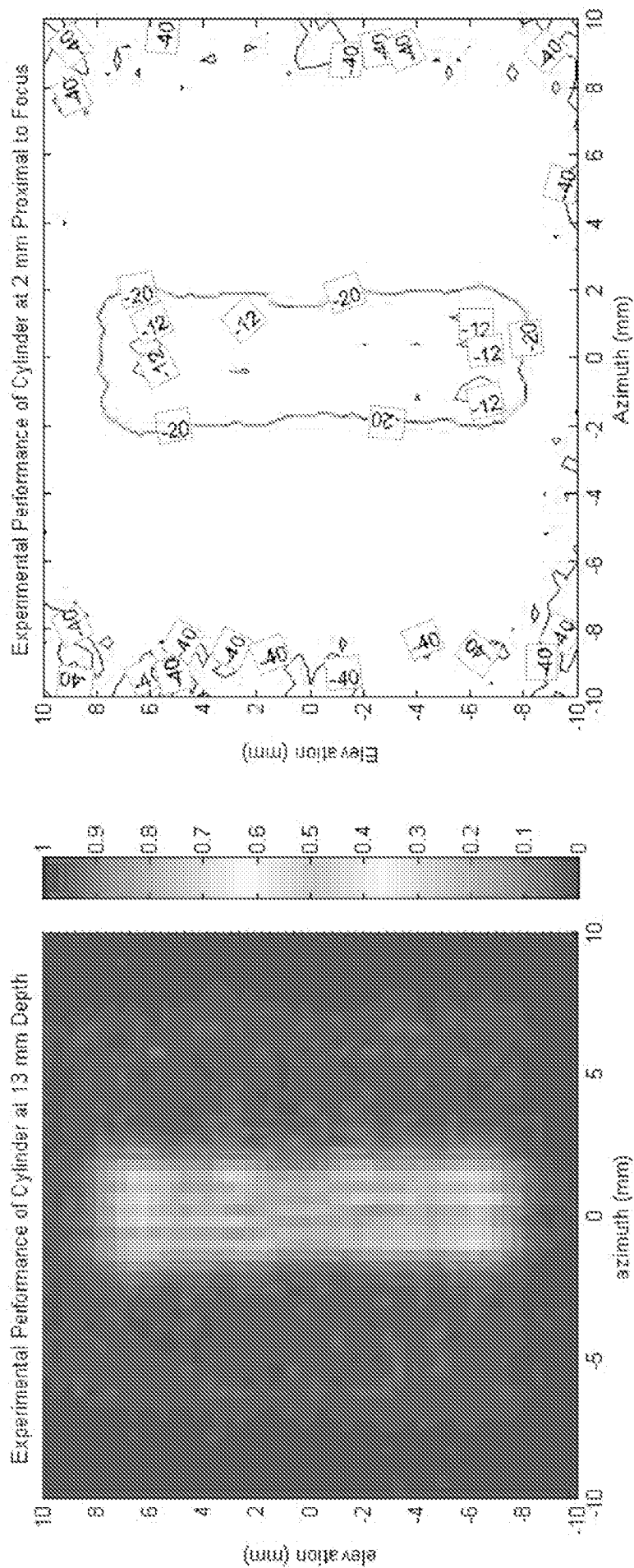
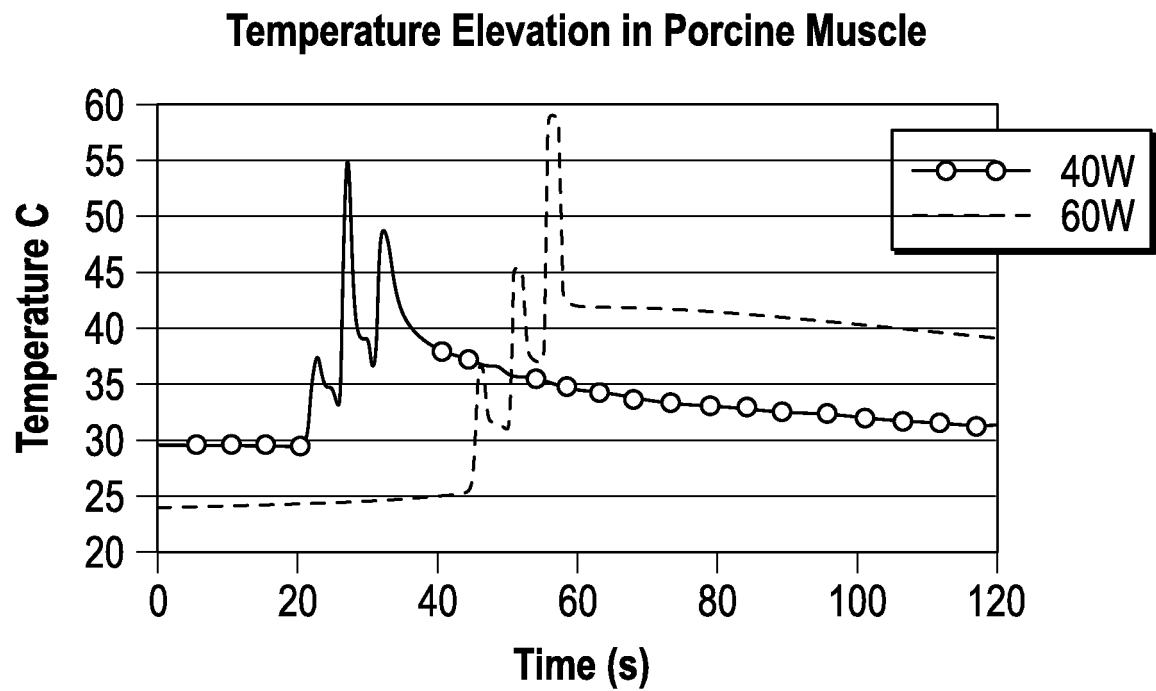
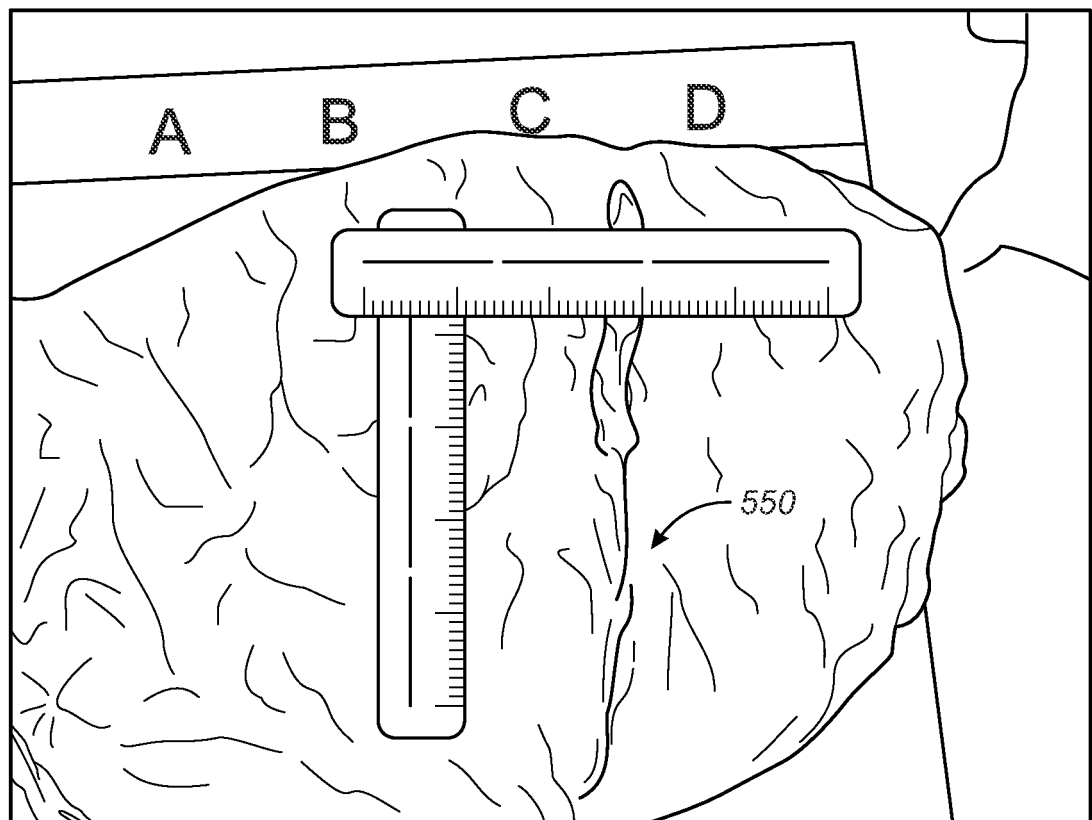


FIG. 16B

**FIG. 17****FIG. 18**

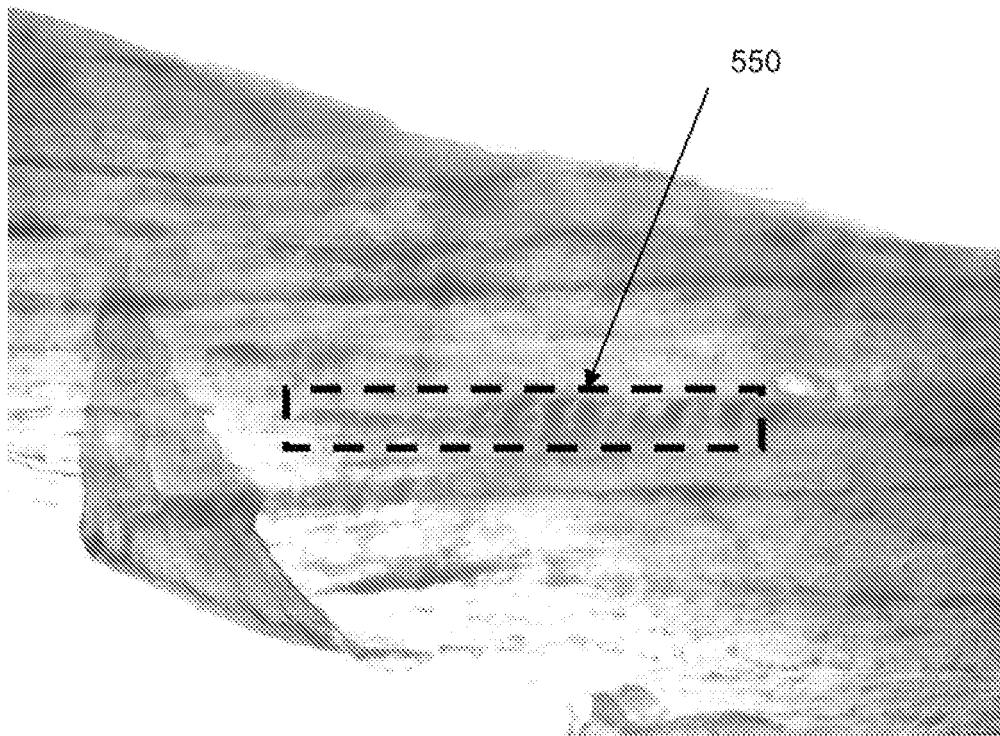


FIG. 19

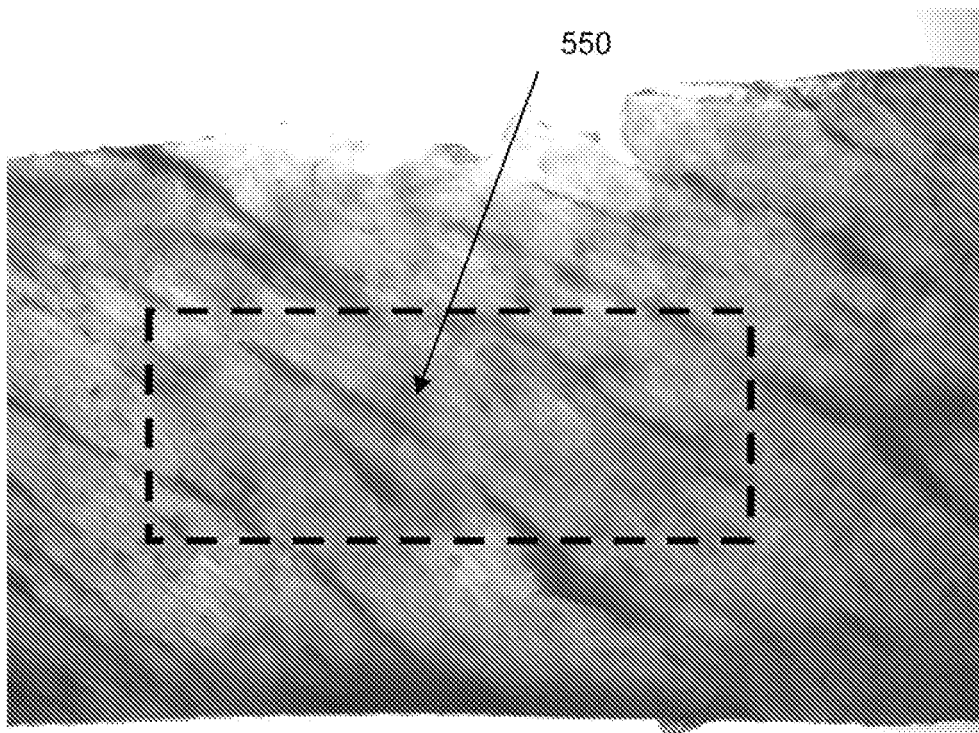


FIG. 20

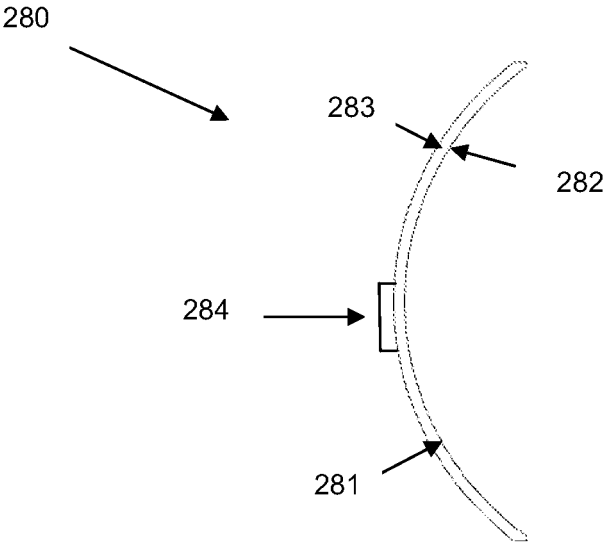


FIG. 21

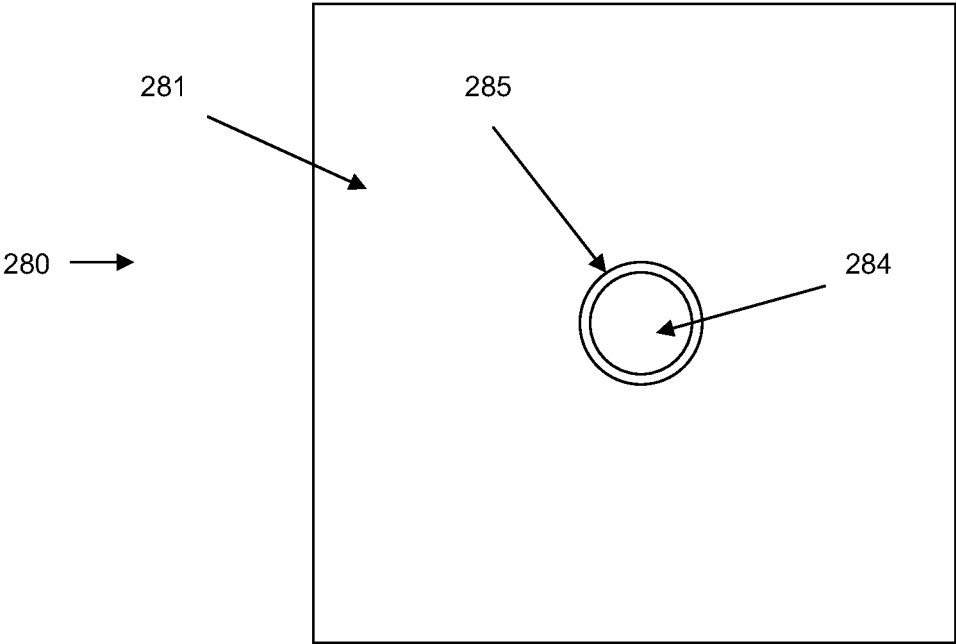
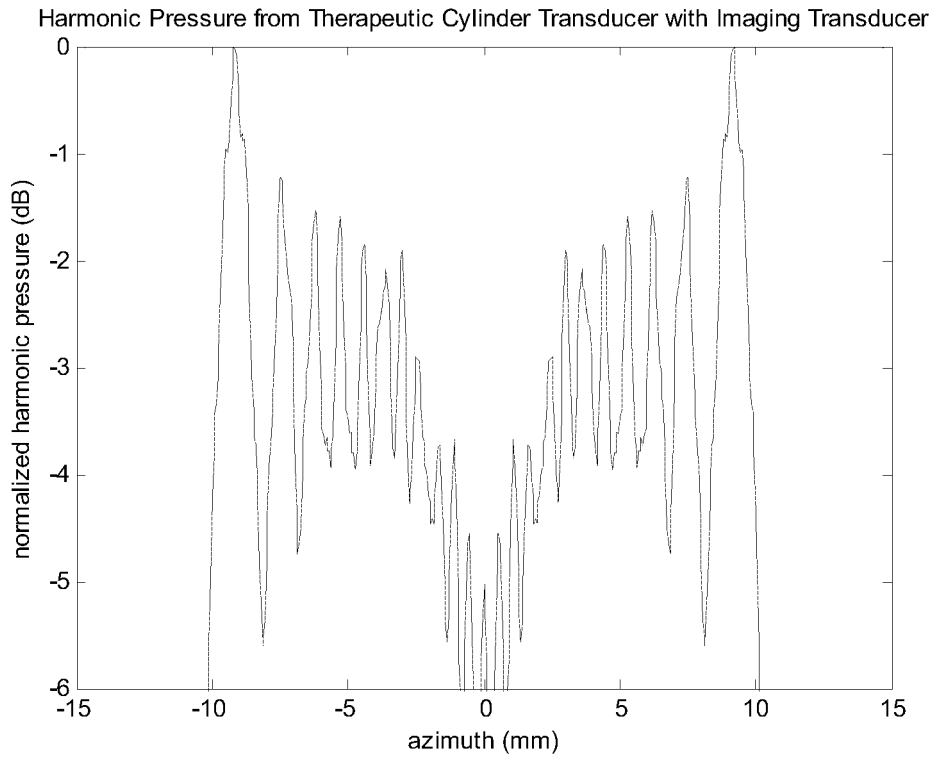
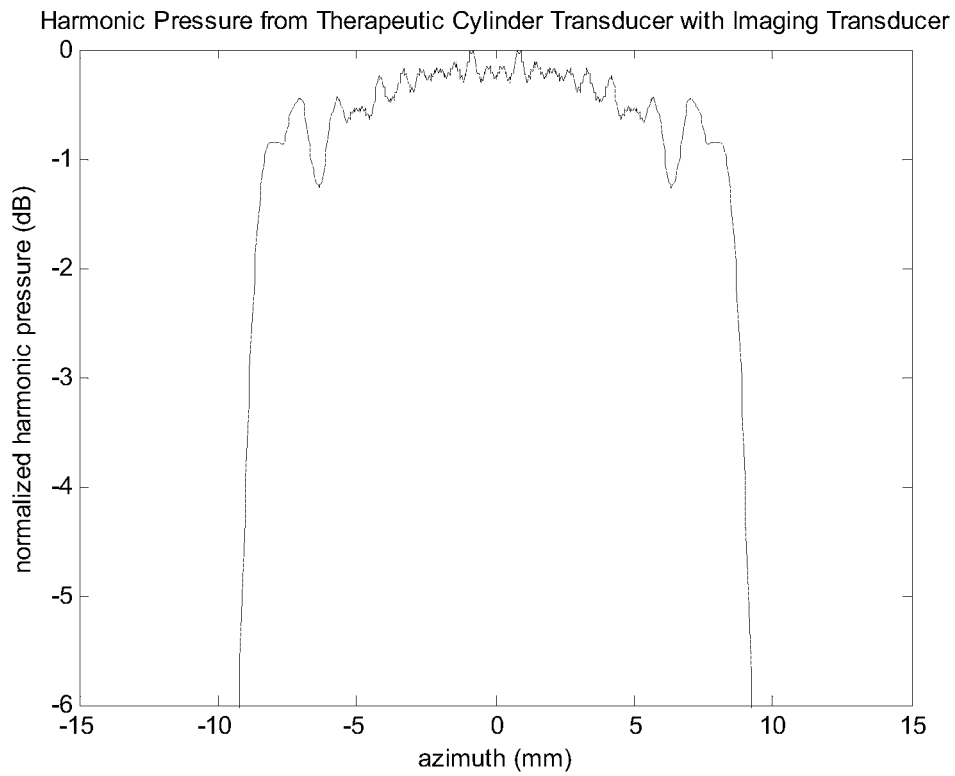
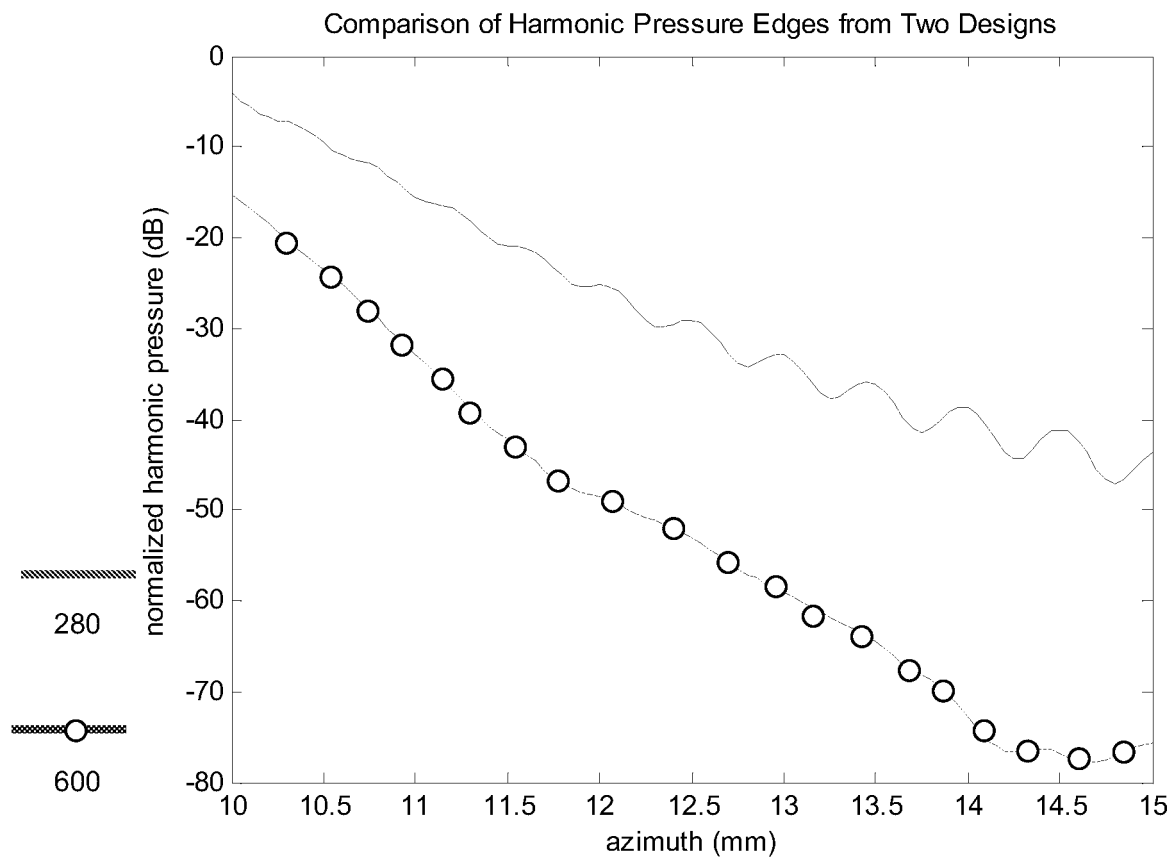
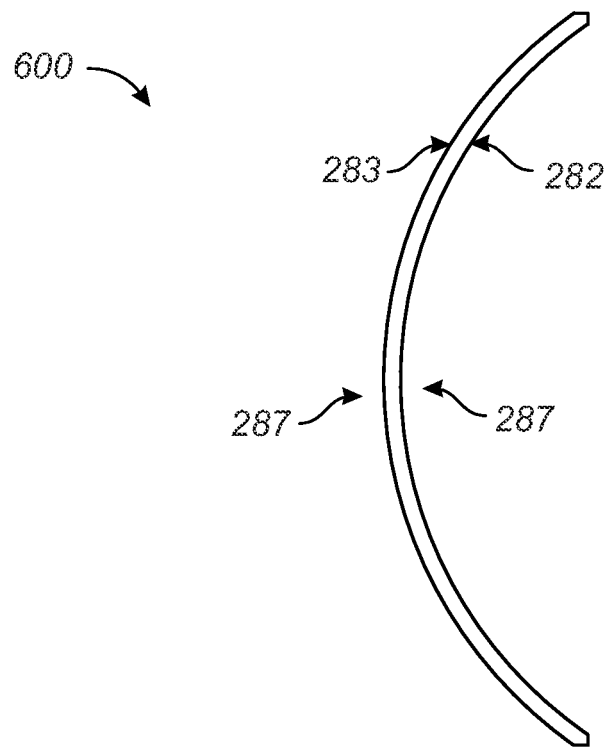
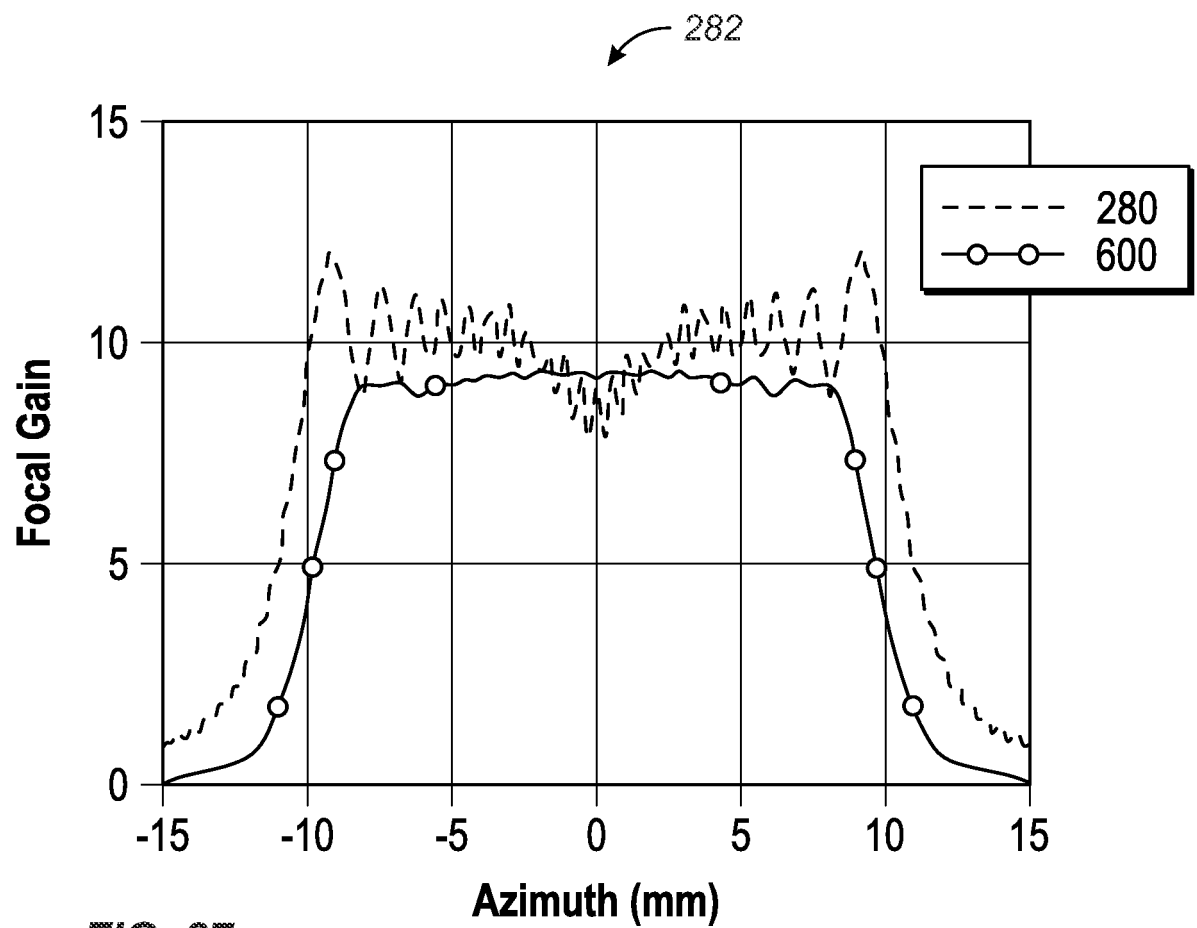
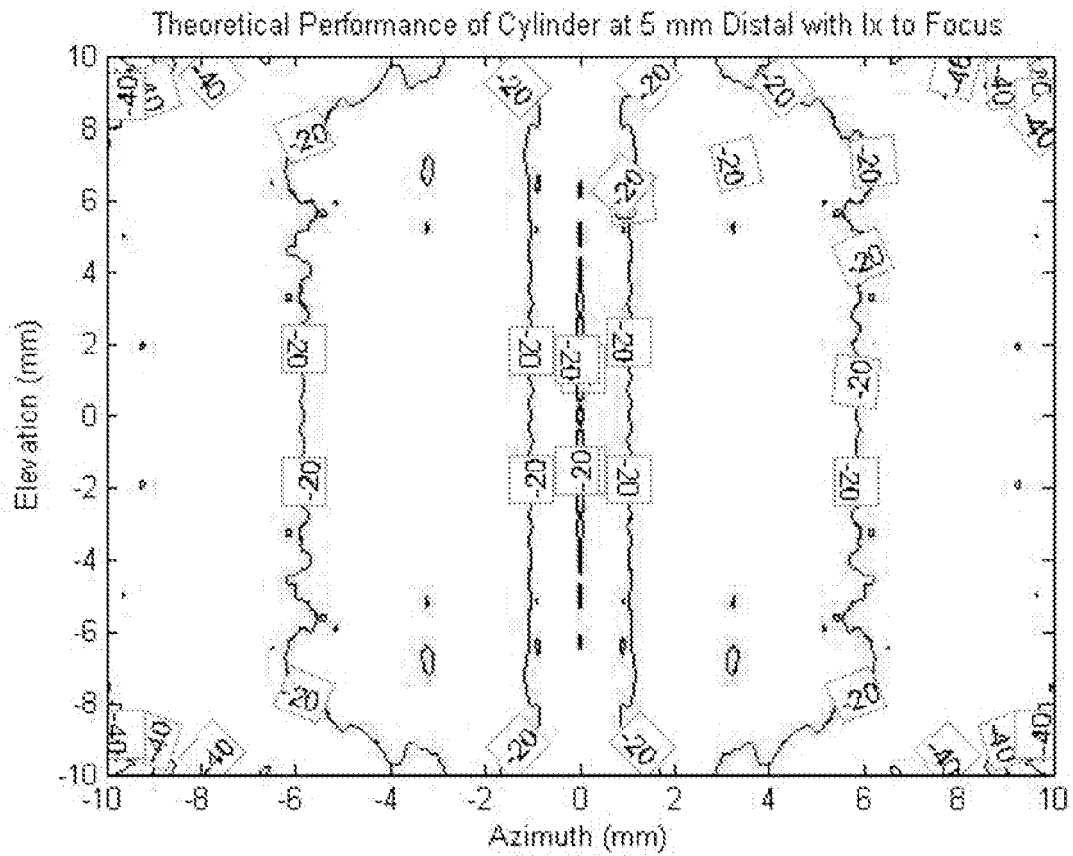
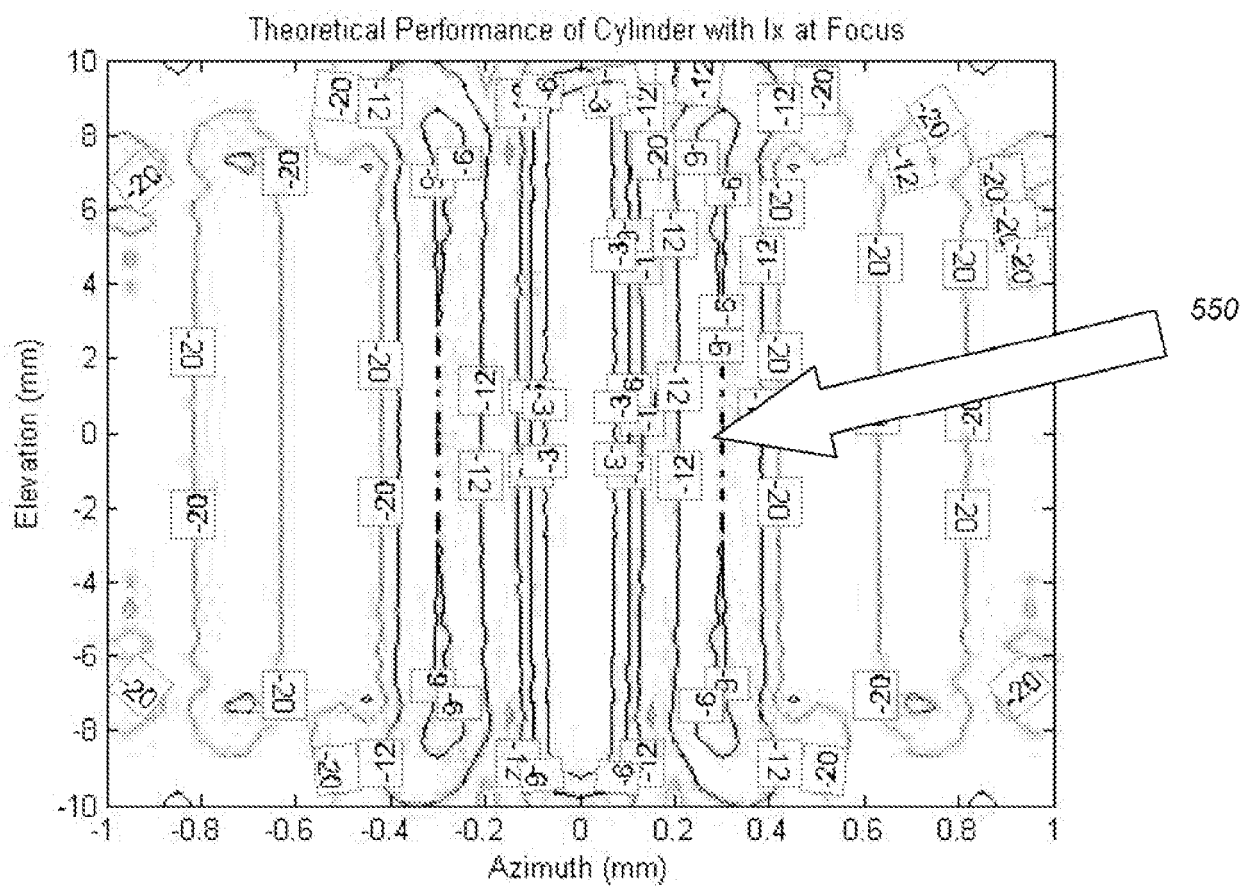


FIG. 22

**FIG. 23****FIG. 24**

**FIG. 25**

**FIG. 26****FIG. 27**

**FIG. 28****FIG. 29**

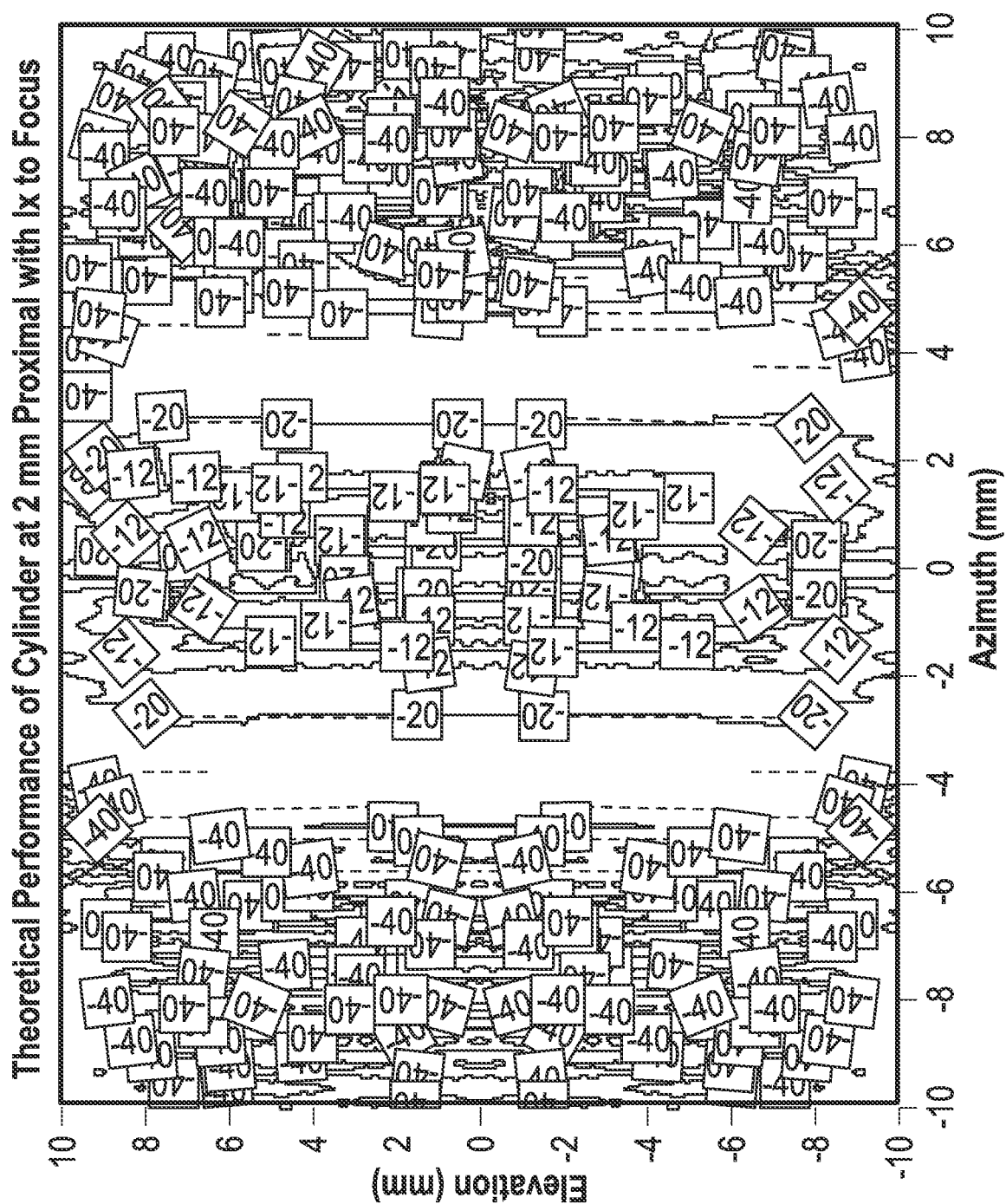


FIG. 30

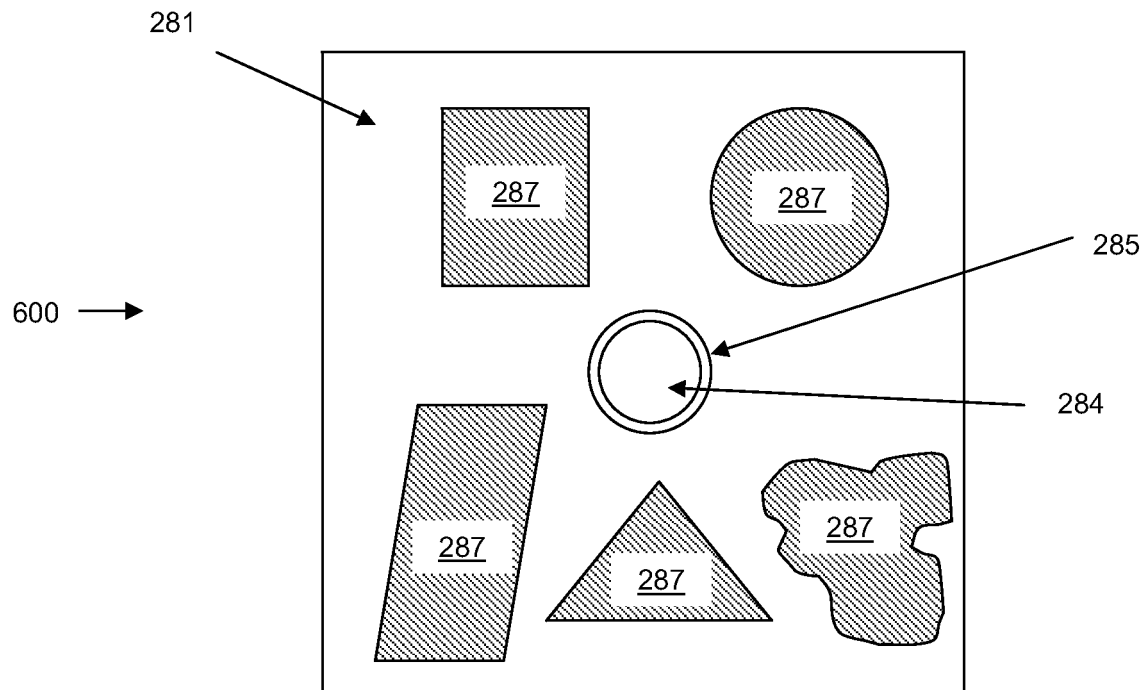


FIG. 31

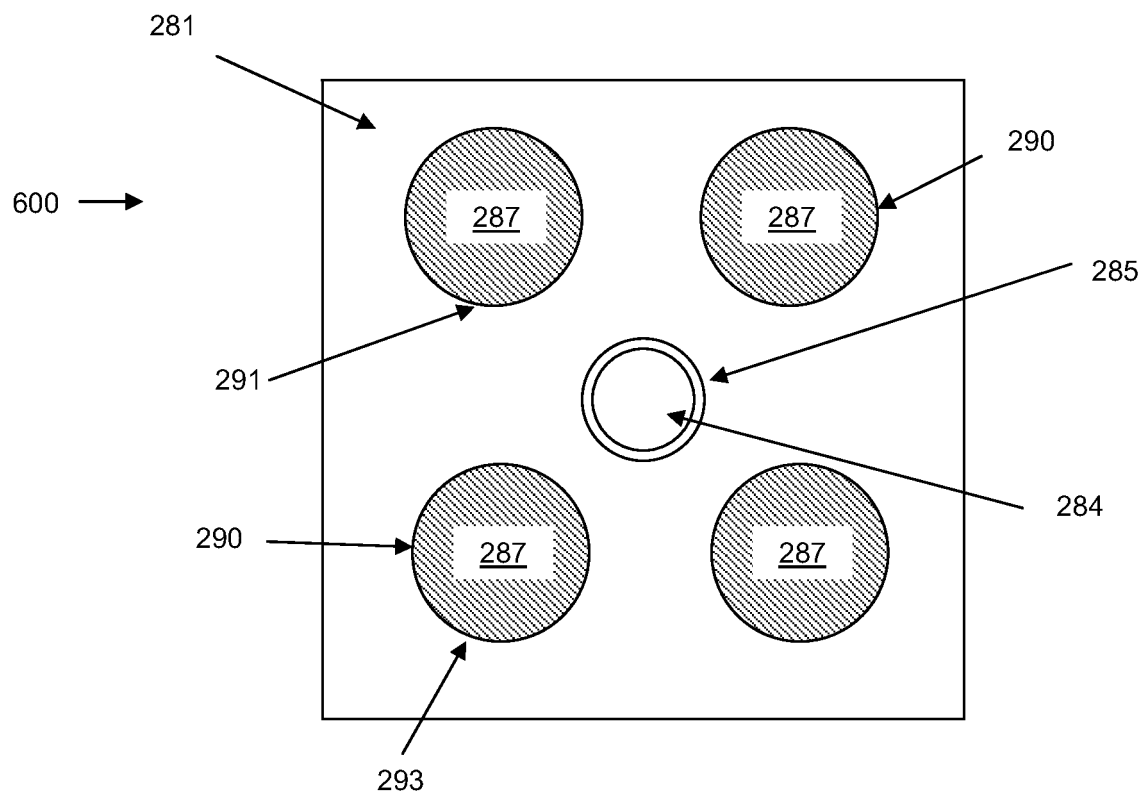


FIG. 32

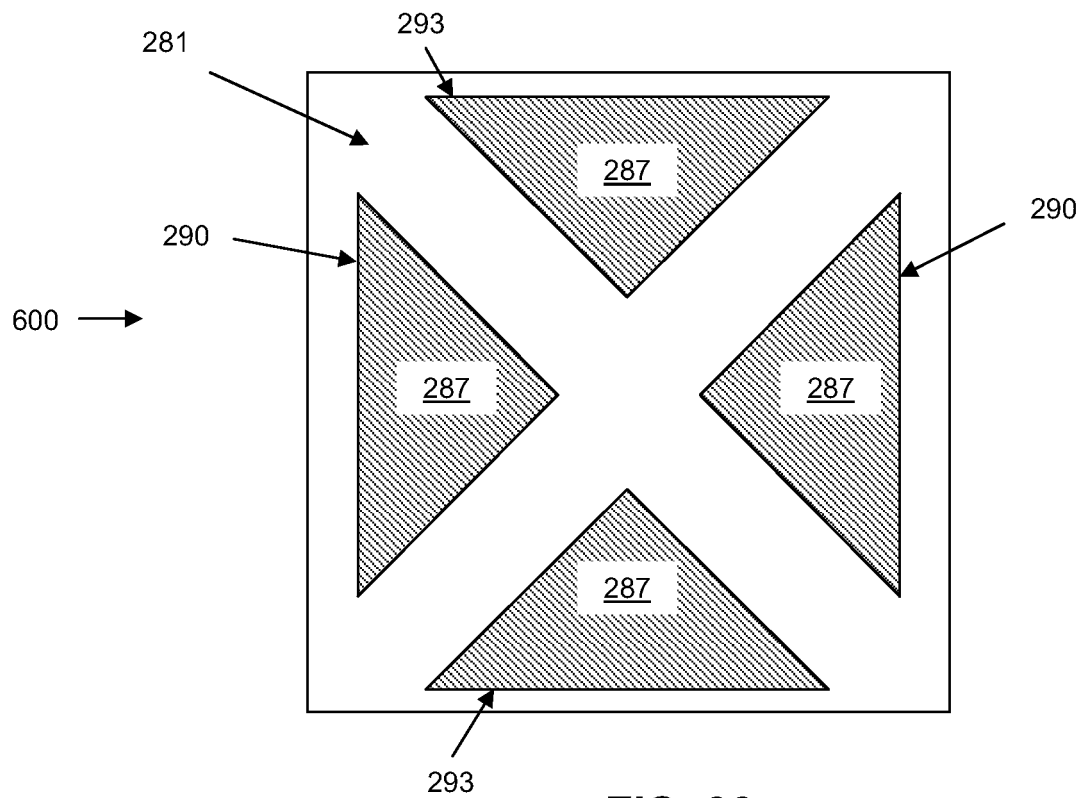


FIG. 33

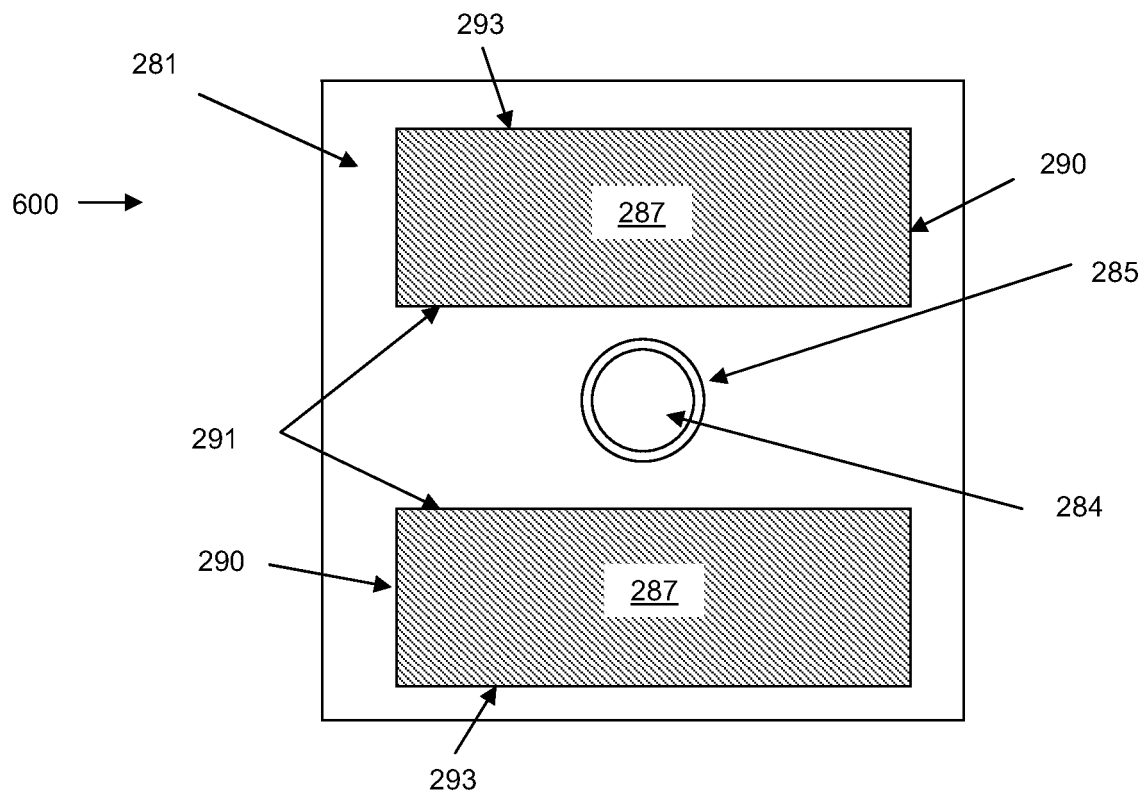


FIG. 34

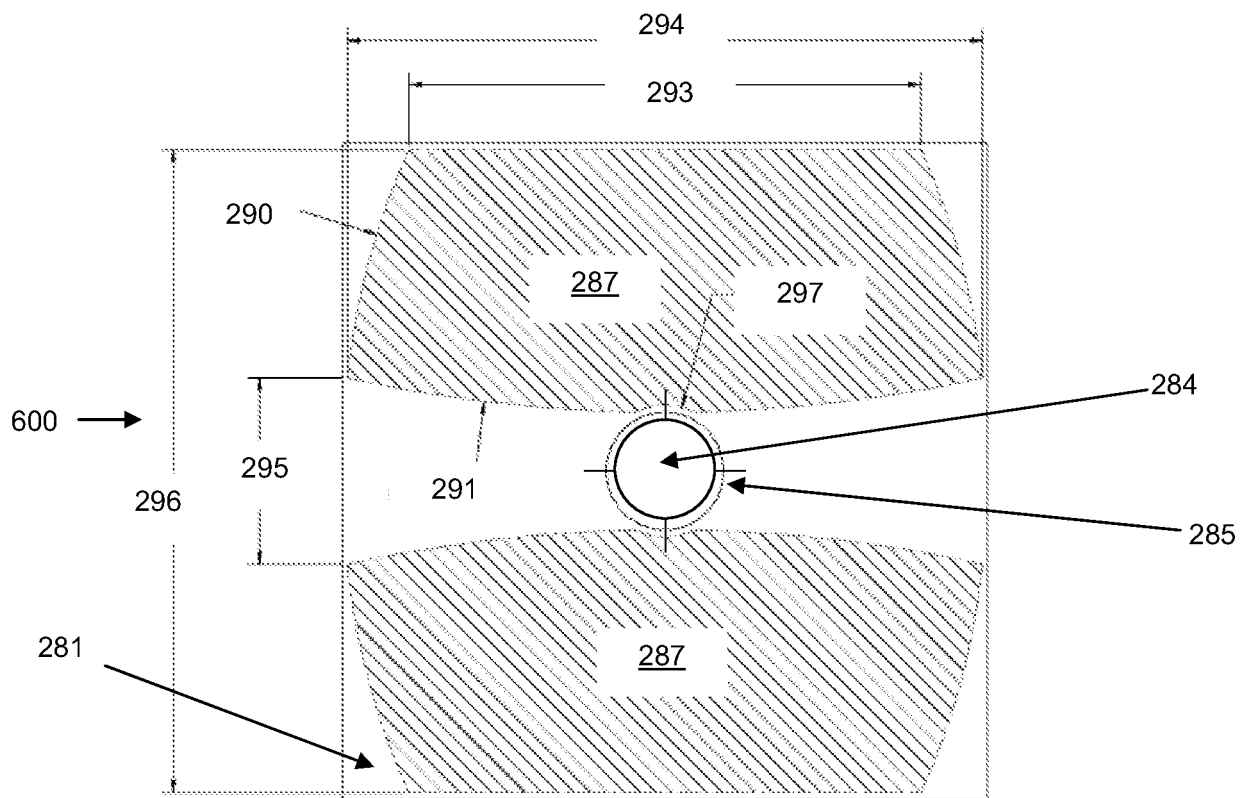


FIG. 35

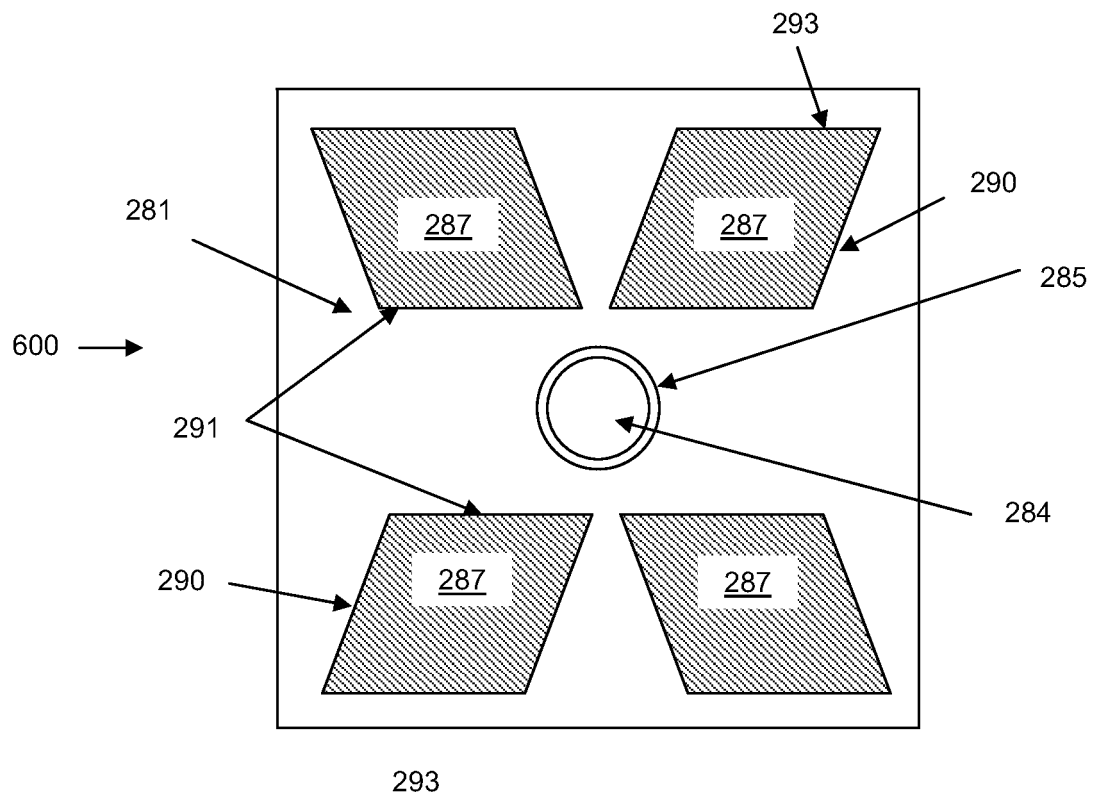


FIG. 36

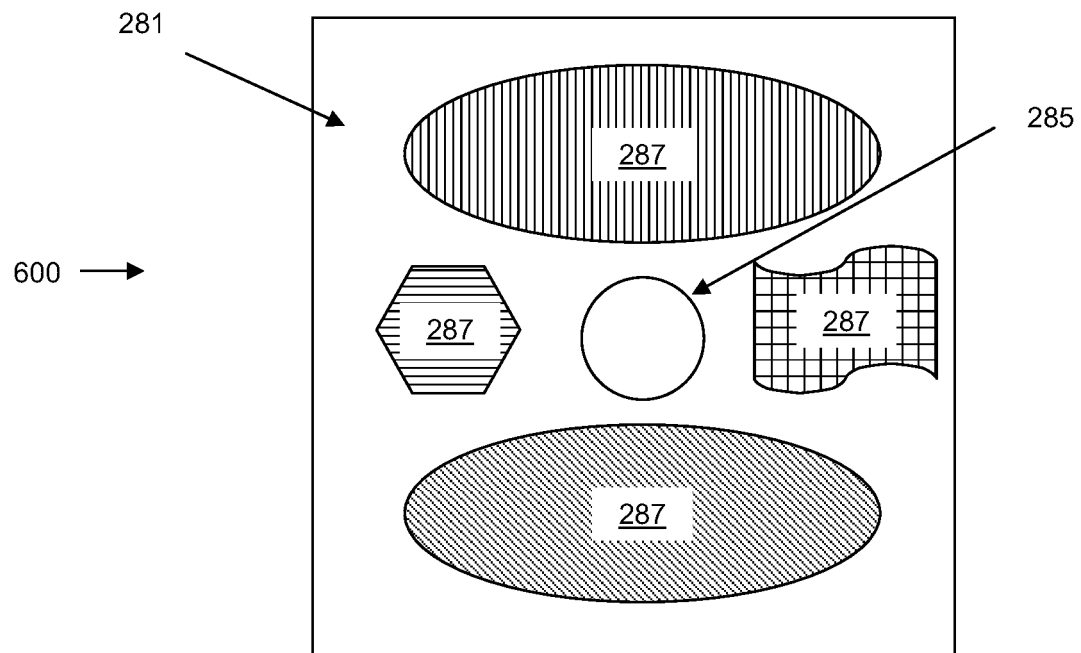


FIG. 37

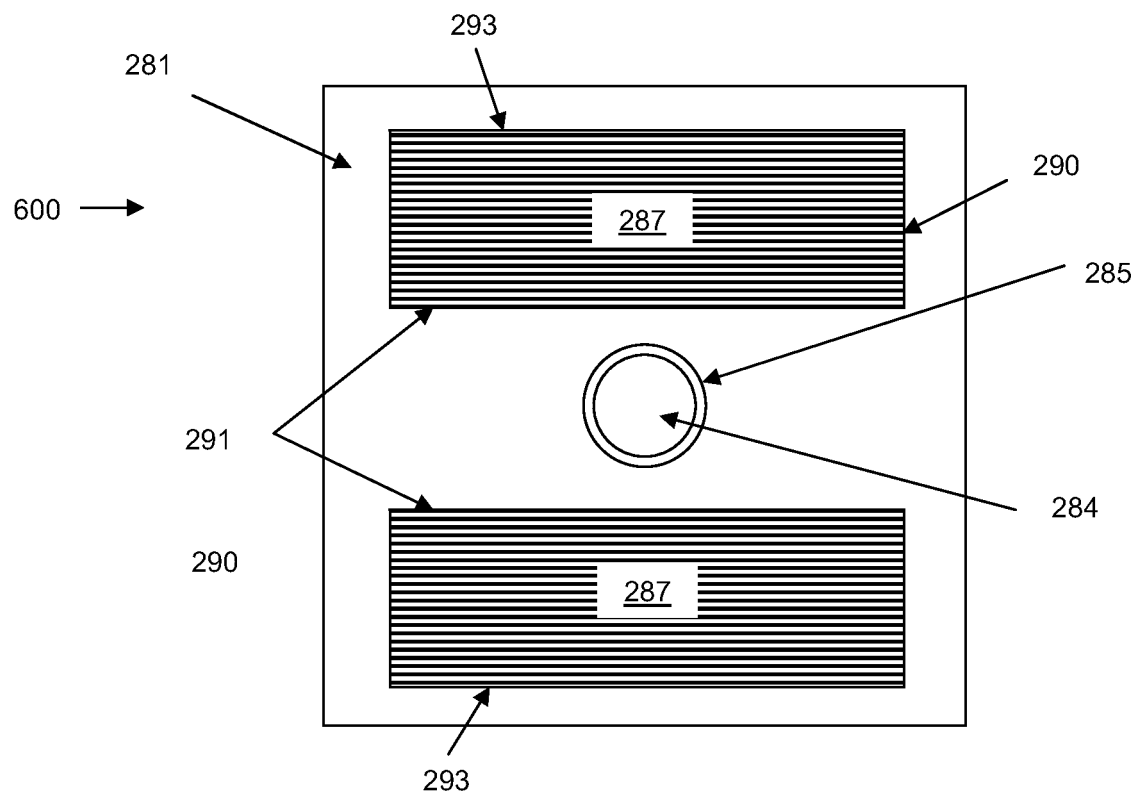
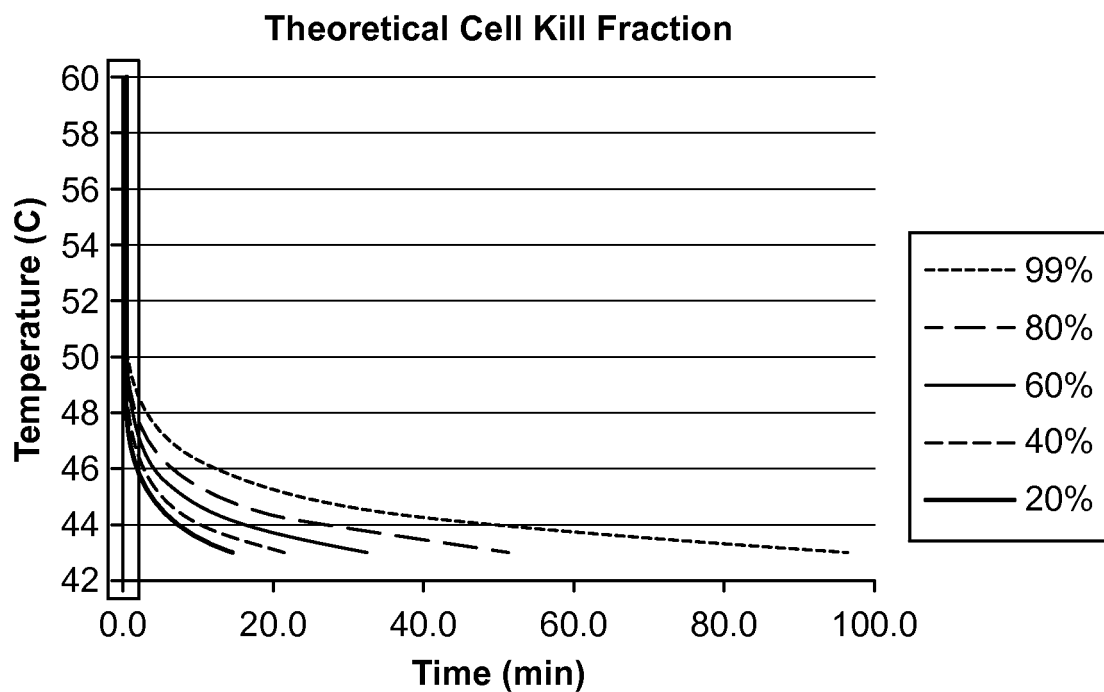
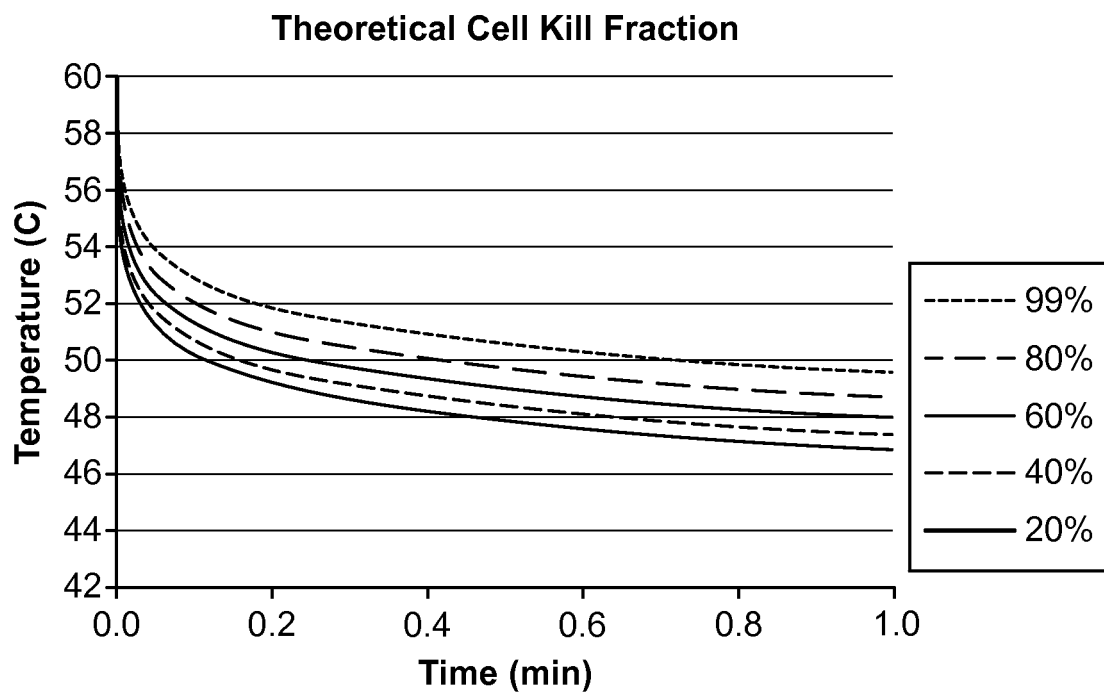


FIG. 38

**FIG. 39****FIG. 40**

Isoeffective Dosages To Theoretically Achieve 1% Survival Fraction

Temperature (°C)	Exposure time (min)	Exposure Time (sec)
43	100.00	6000
44	50.00	3000
45	25.00	1500
46	12.50	750
47	6.25	375
48	3.13	188
49	1.56	94
50	0.78	47
51	0.39	23
52	0.20	12
53	0.10	6
54	0.05	3
55	0.02	1

FIG. 41

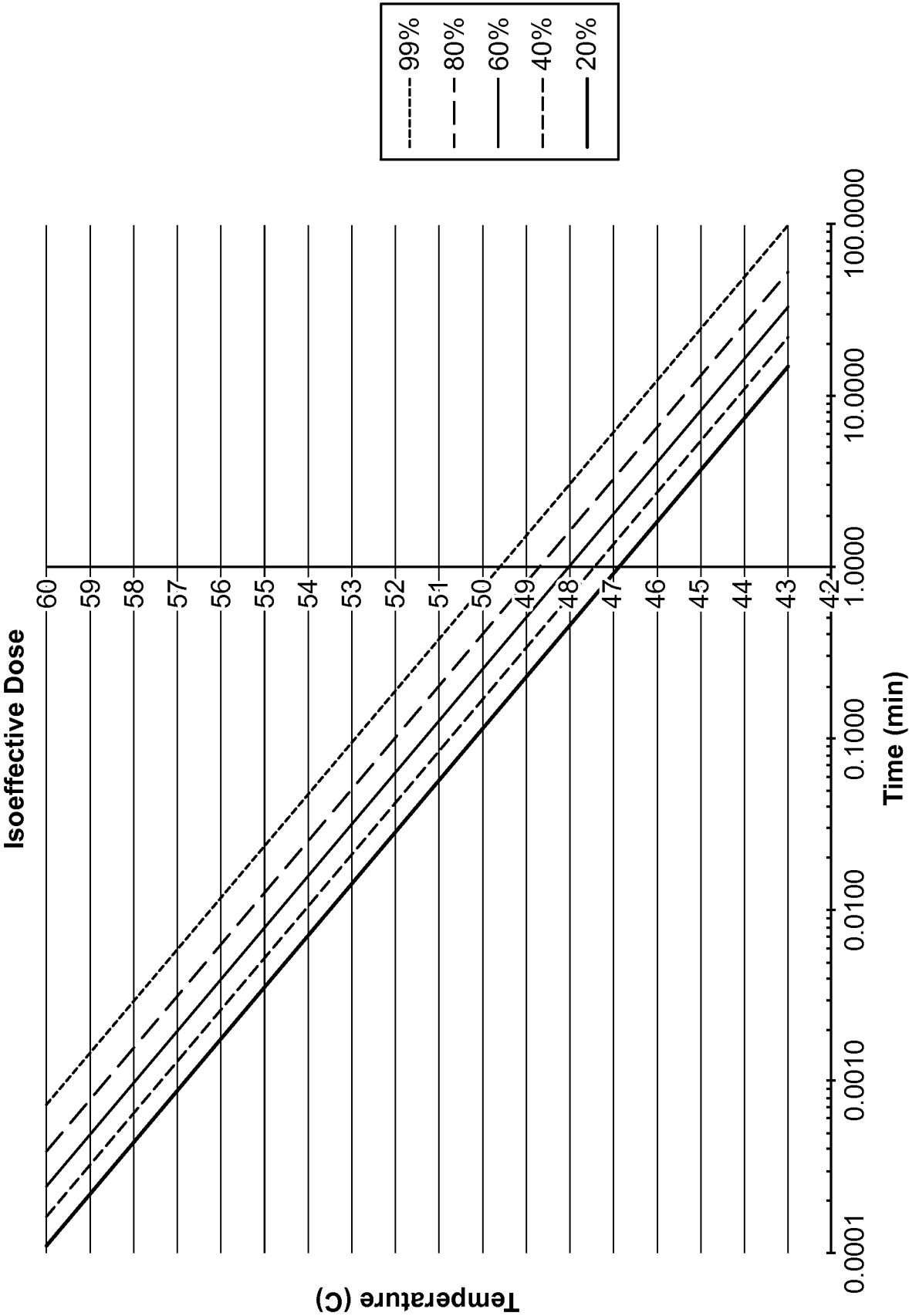


FIG. 42

KZK Simulation of Cylindrical Transducer Output showing Linear Superposition of Multiple Pulse

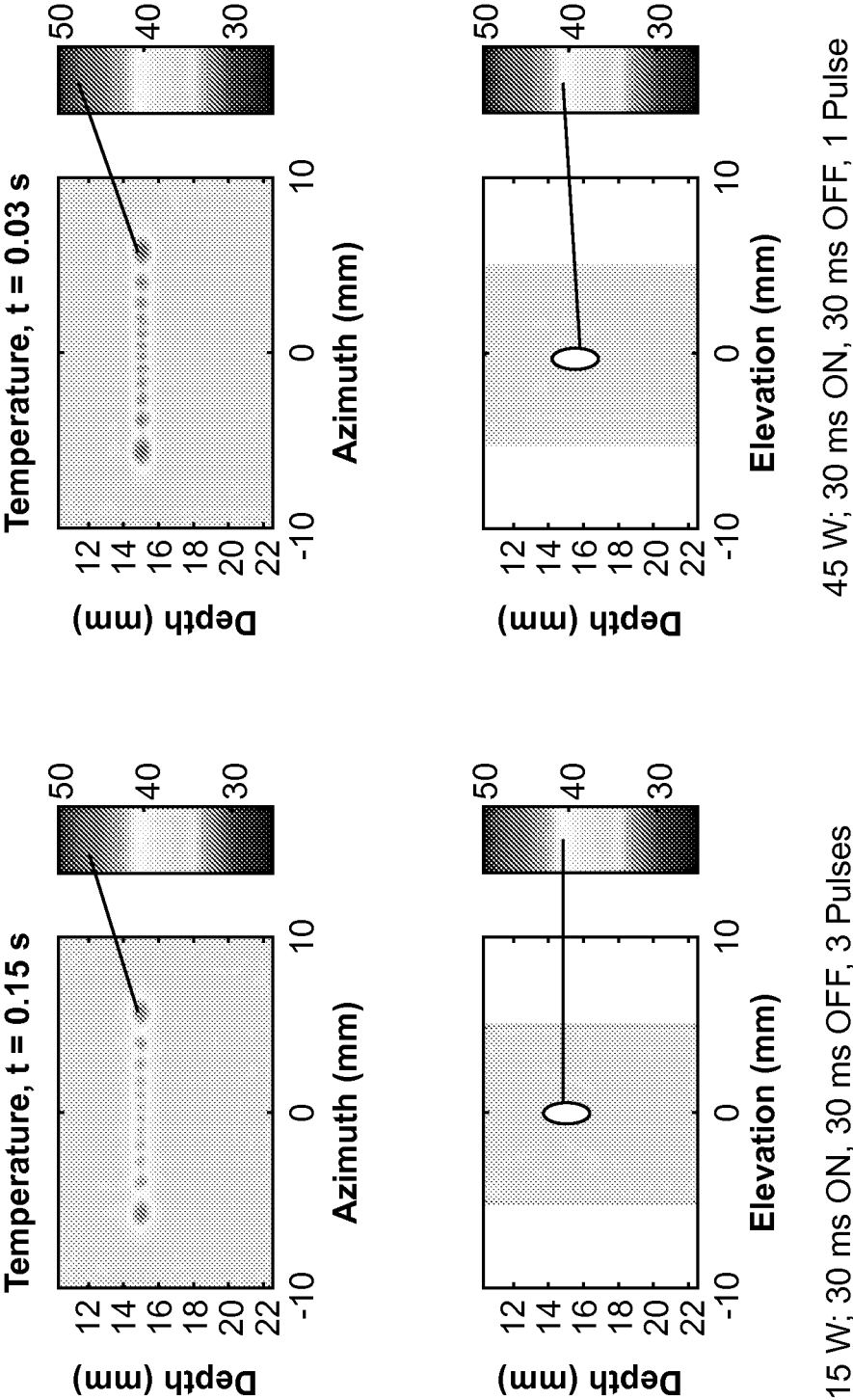
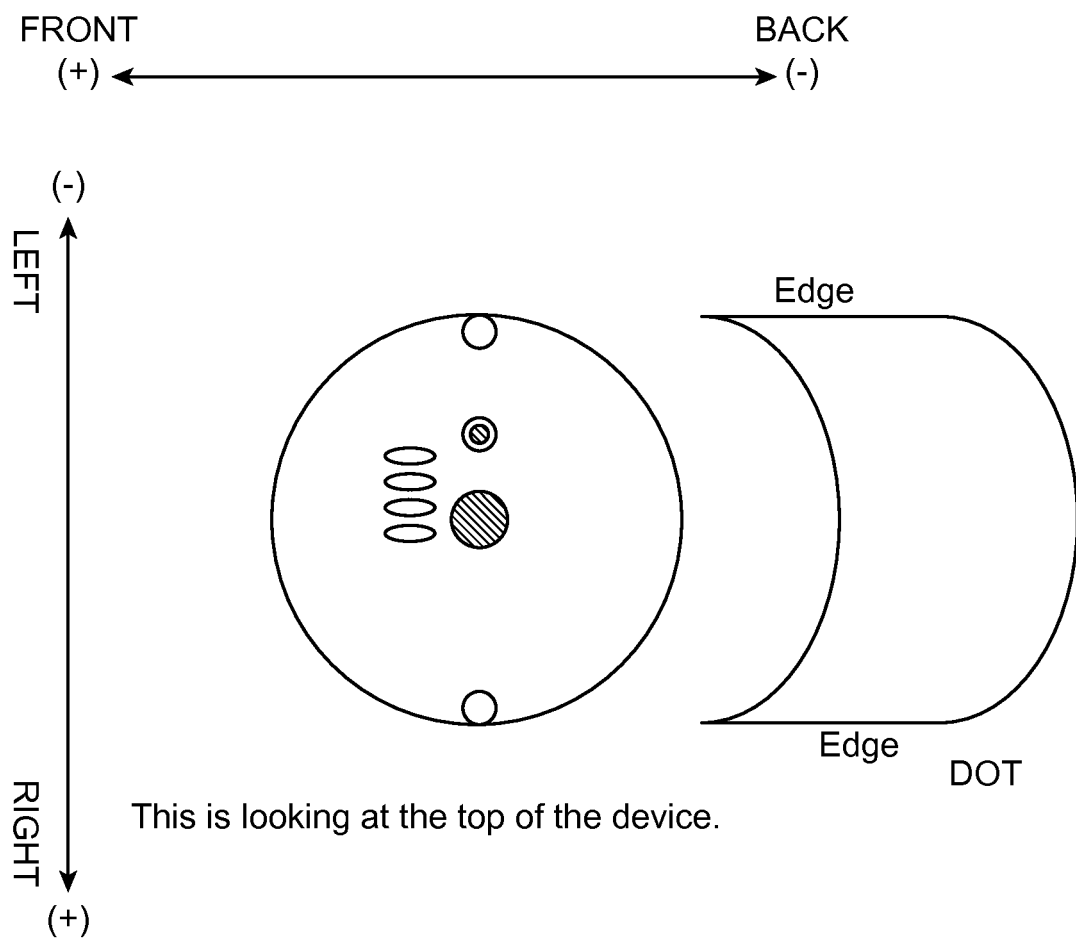


FIG. 43

**FIG. 44**

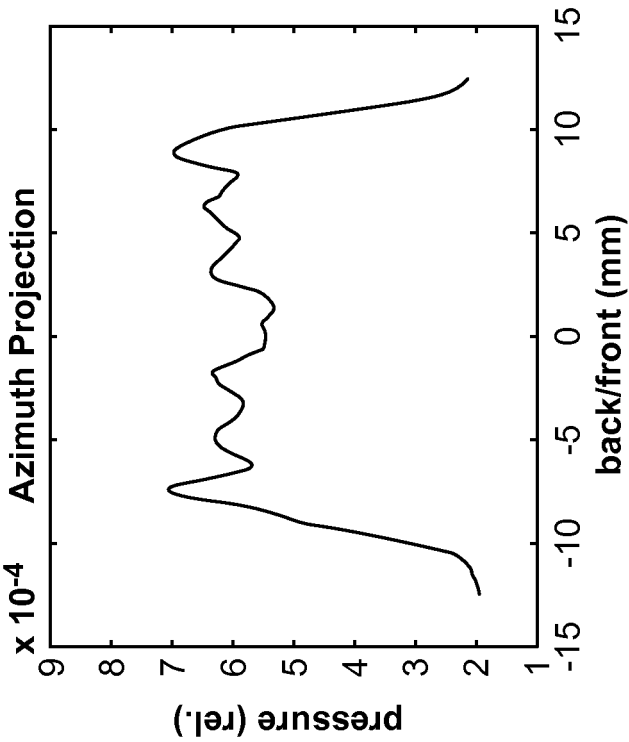
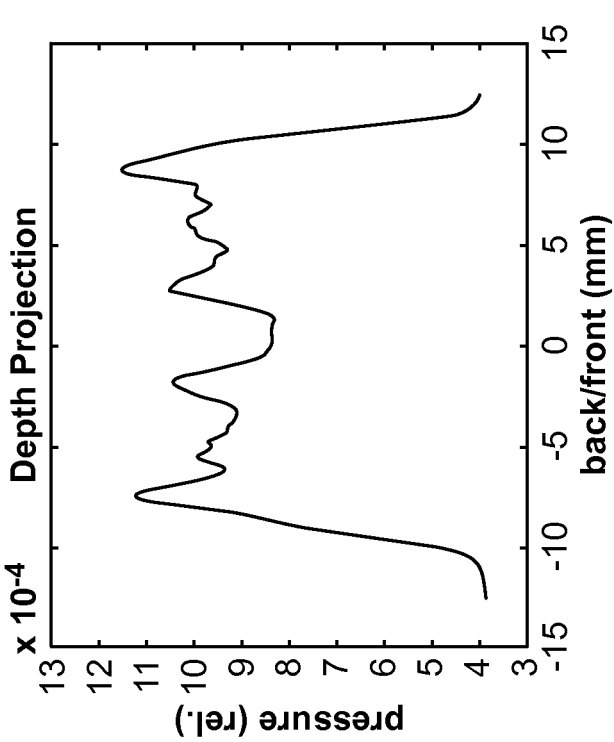
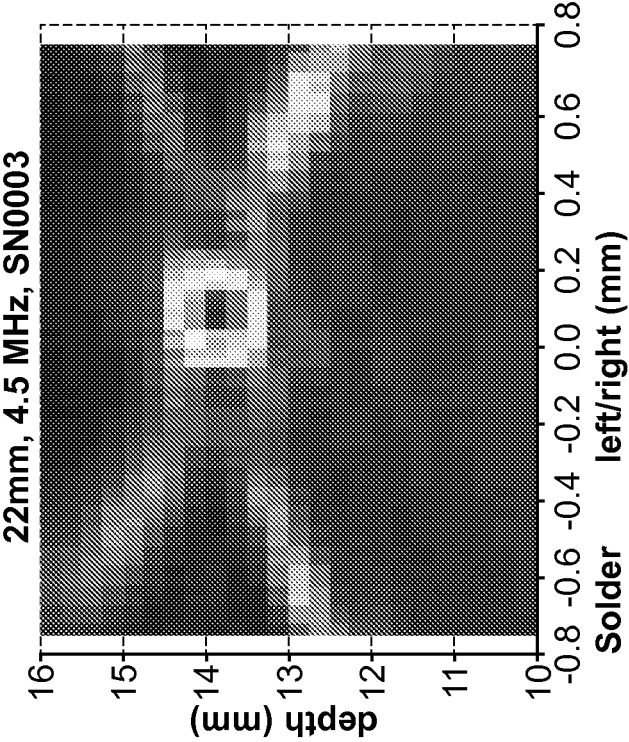
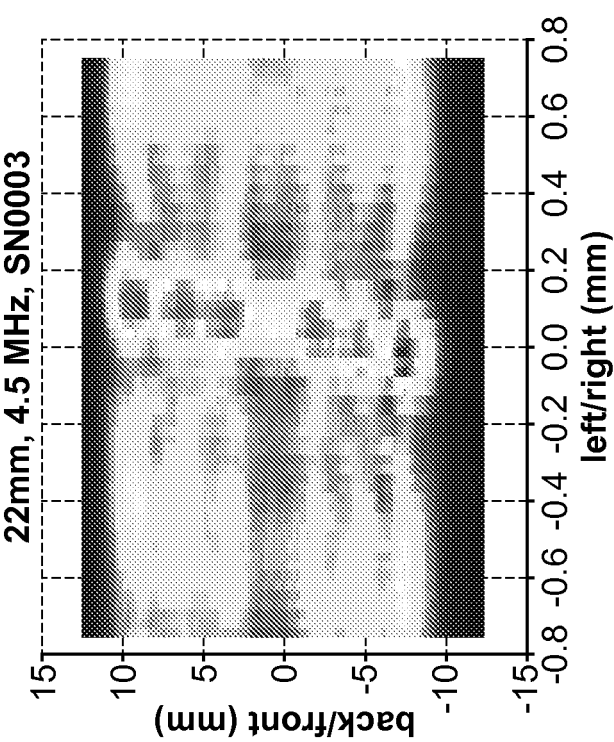


FIG. 45

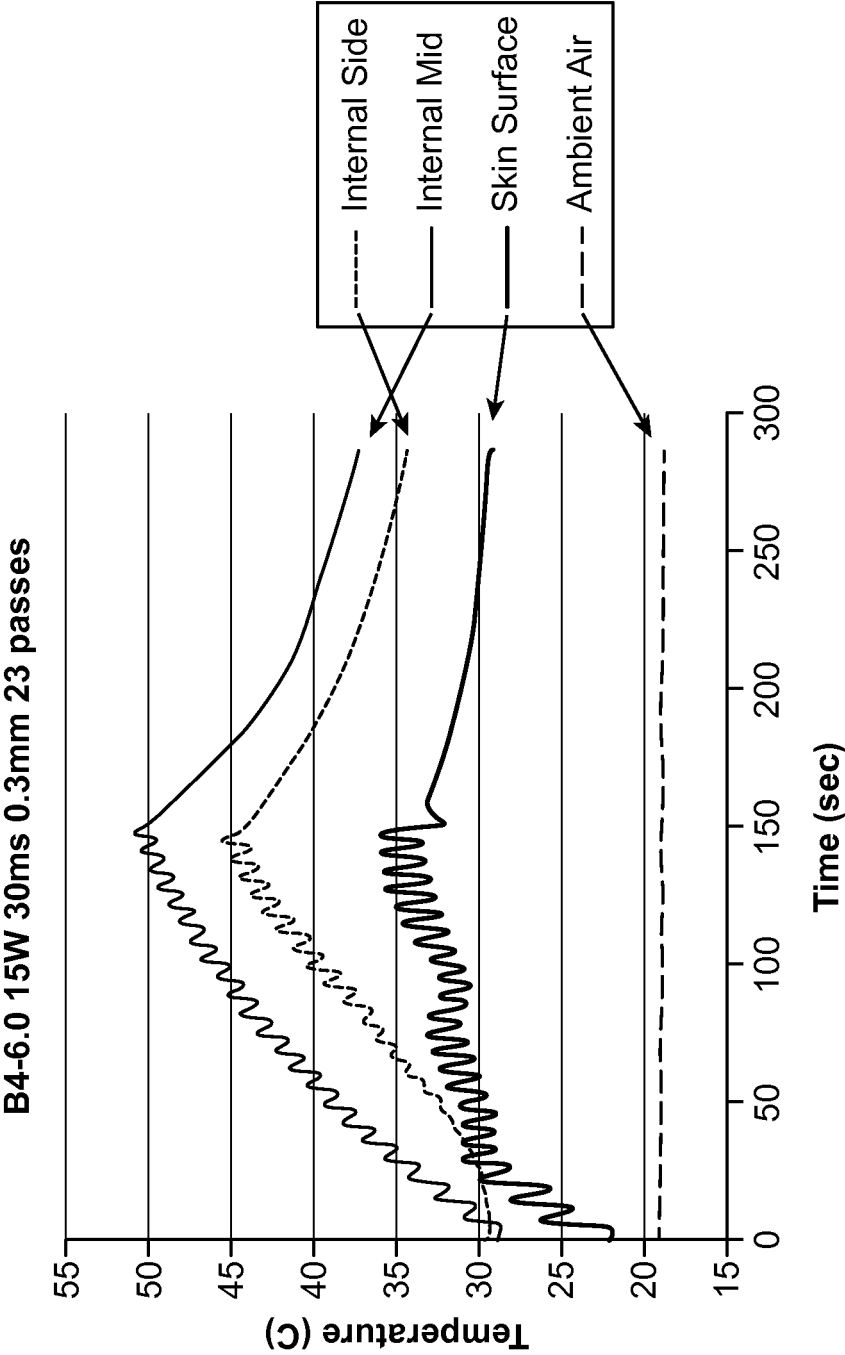
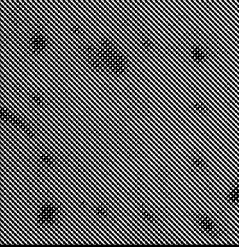
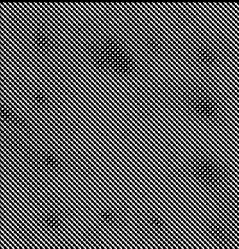
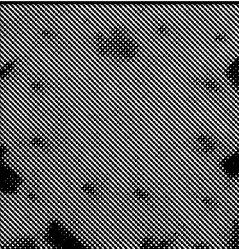


FIG. 46

3-Factor 3-Level DOE to Determine Settings for an Isoeffective Dosage Study

Power	Time-on	Time-off	Spacing	#"TCPs"	Energy/Line	Energy/Pass
[W]	[ms]	[ms]	[mm]	[#]	[J]	[J]
10	30	34	0.3	84	0.3	25.2
15	20	34	0.3	84	0.3	25.2
15	30	34	0.2	125	0.45	56.3
15	30	34	0.3	84	0.45	37.8
15	40	34	0.3	84	0.6	50.4
20	30	34	0.3	84	0.6	50.4
15	30	34	0.1	250	0.45	112.5

FIG. 47

Site	Transducer	SN	Power	Time-on	Spacing	Passes	Pretreatment	Post-treatment	Day 7
30.1	C4.5-22-6.0	SN0002	15	40	0.3	31			

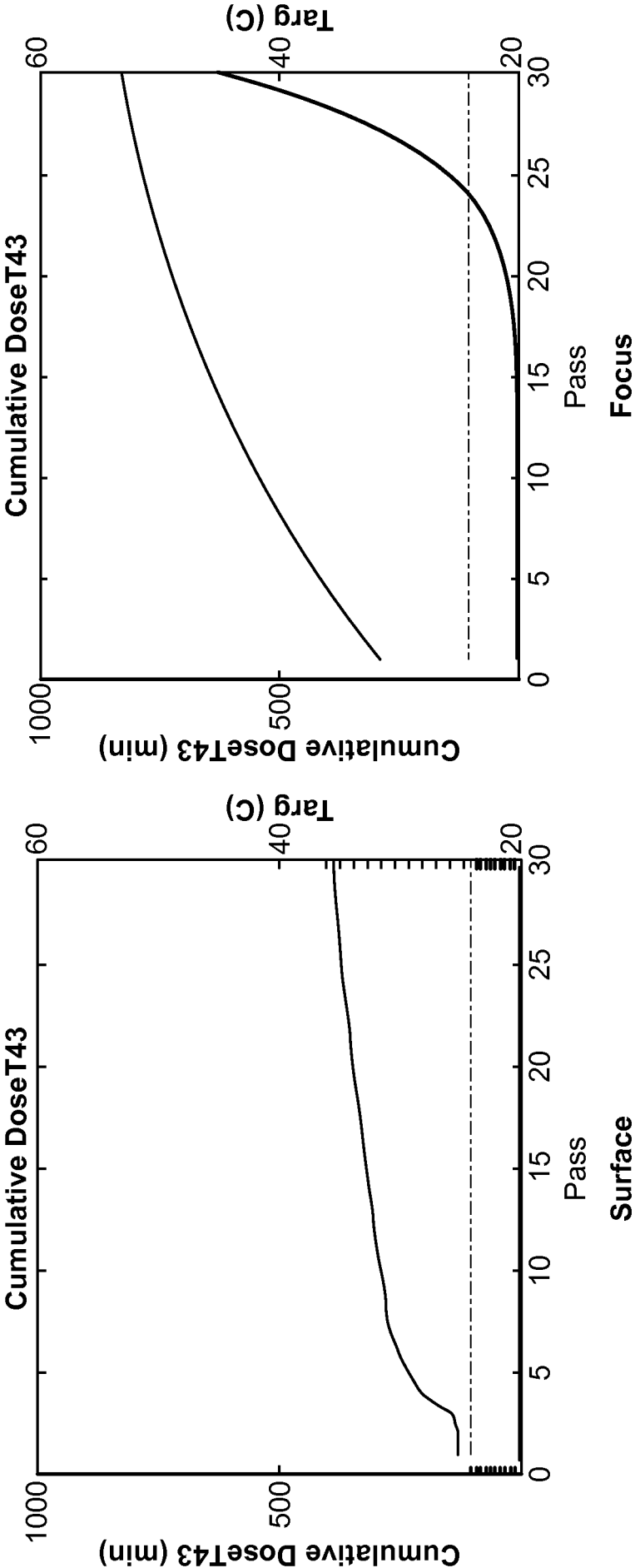


FIG. 48

Time-Temperature Goals for Thermal Dosage Testing

Site	Target Time [min]	Target Time [sec]	Target Temperature [°C]
C1	0.10	6	60
1	5.00	300	45
2	1.00	60	45
3	5.00	300	48
4	1.00	60	48
5	0.20	12	48
6	1.00	60	51
7	0.20	12	52

FIG. 49

3.5Mhz, 22mm width, 6.0mm Depth Cylindrical Transducer
Treatment Settings For Isoeffective Thermal Dosage Study

Power [W]	Time-on [ms]	Time-off [ms]	Spacing [mm]	"#TCPs"	Energy/Line [J]	Energy/Pass [J]
15	30	34	0.3	84	0.45	37.8
15	60	67	0.7	36	0.9	32.4

FIG. 50

Dimensions of Spread of Heat Based on Thermally Overdosed Site

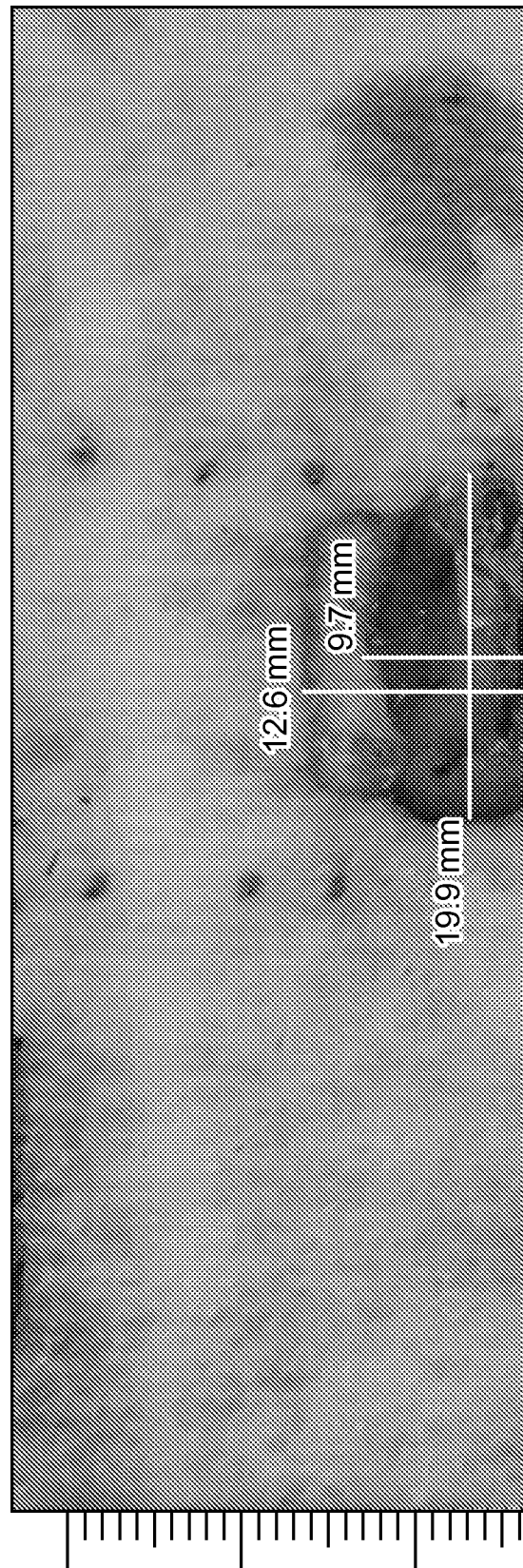


FIG. 51

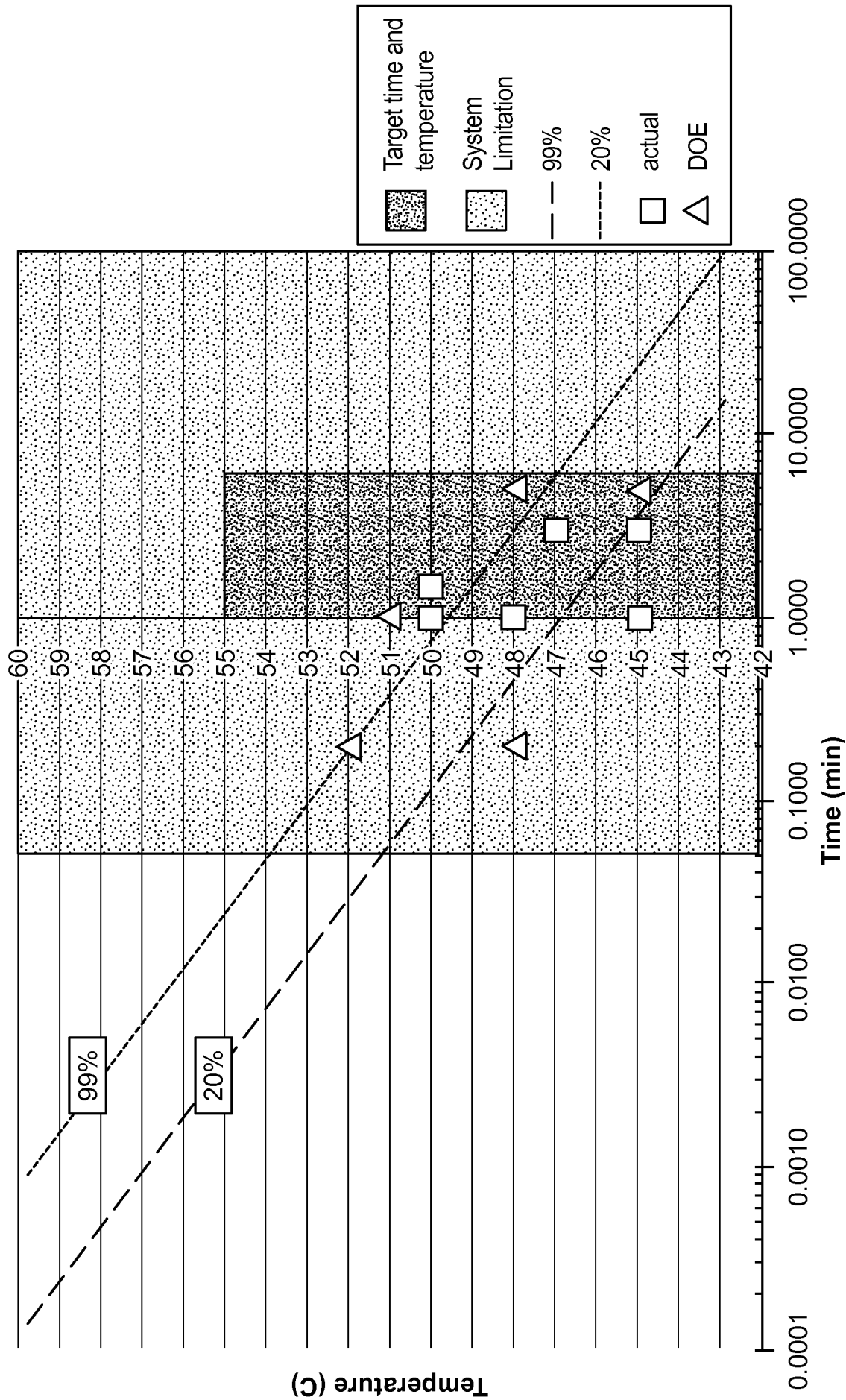
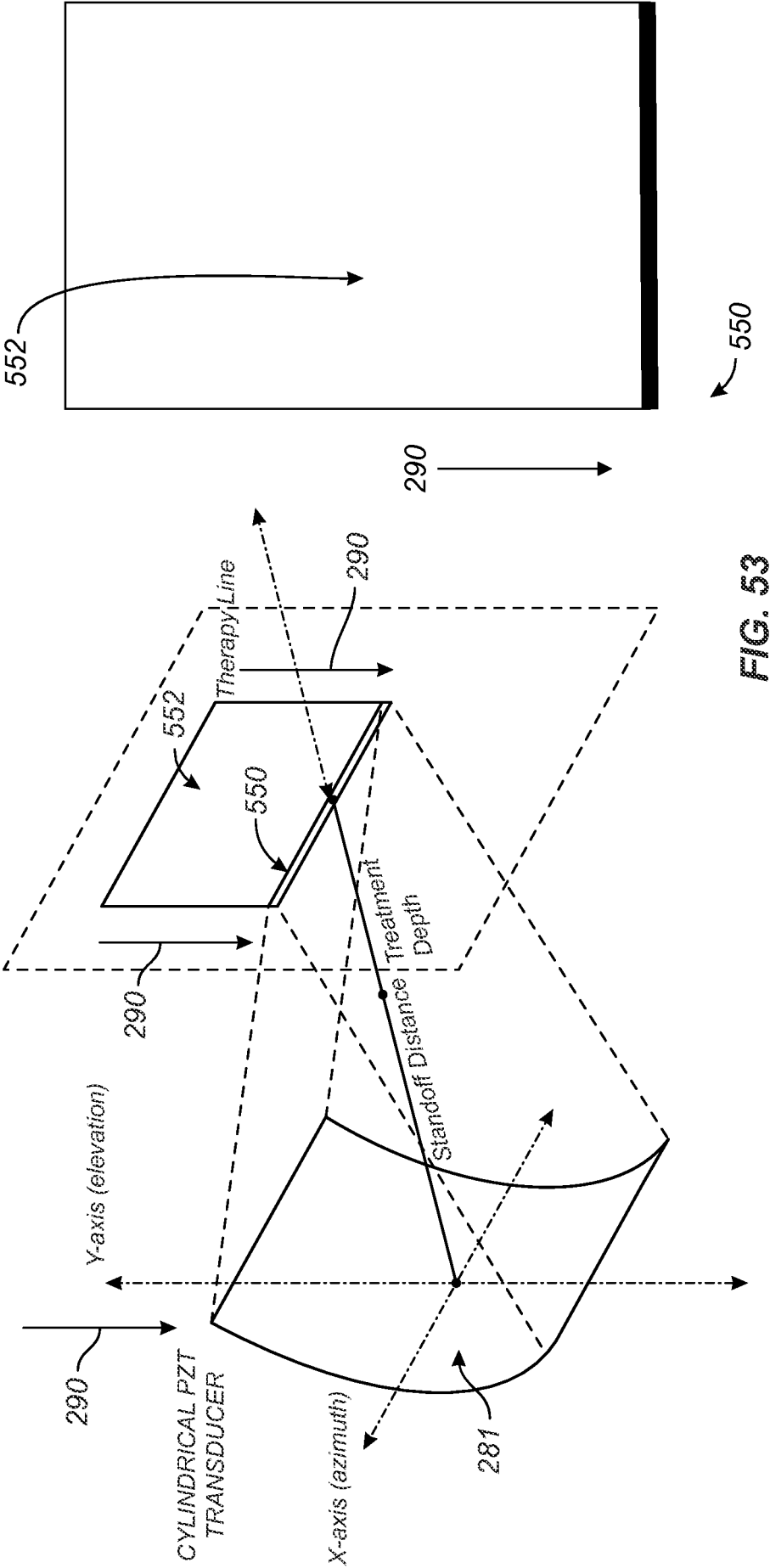


FIG. 52



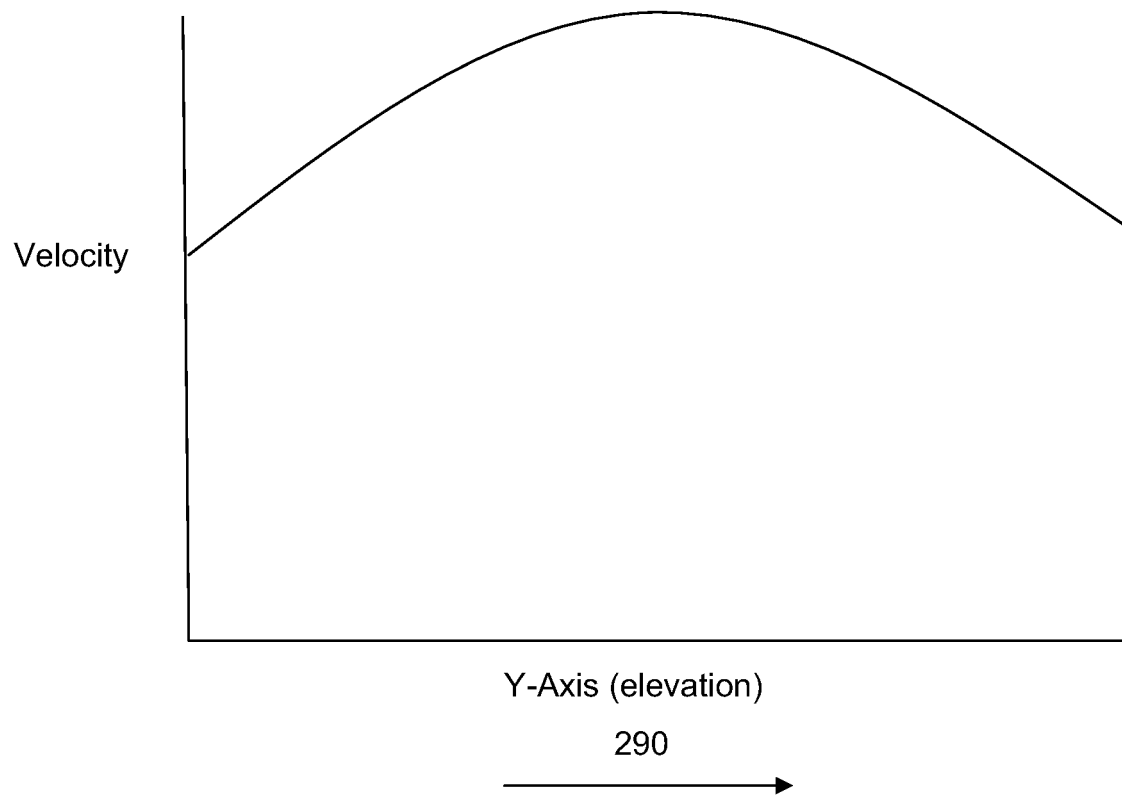


FIG. 54

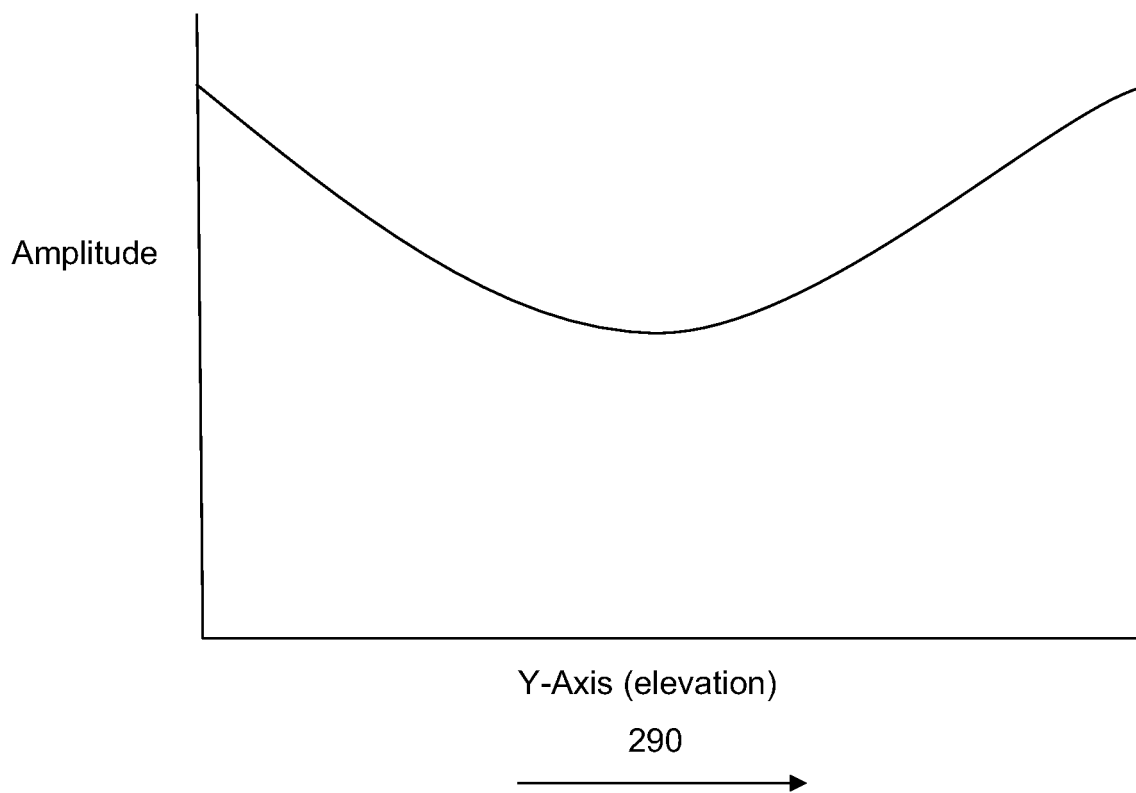


FIG. 55

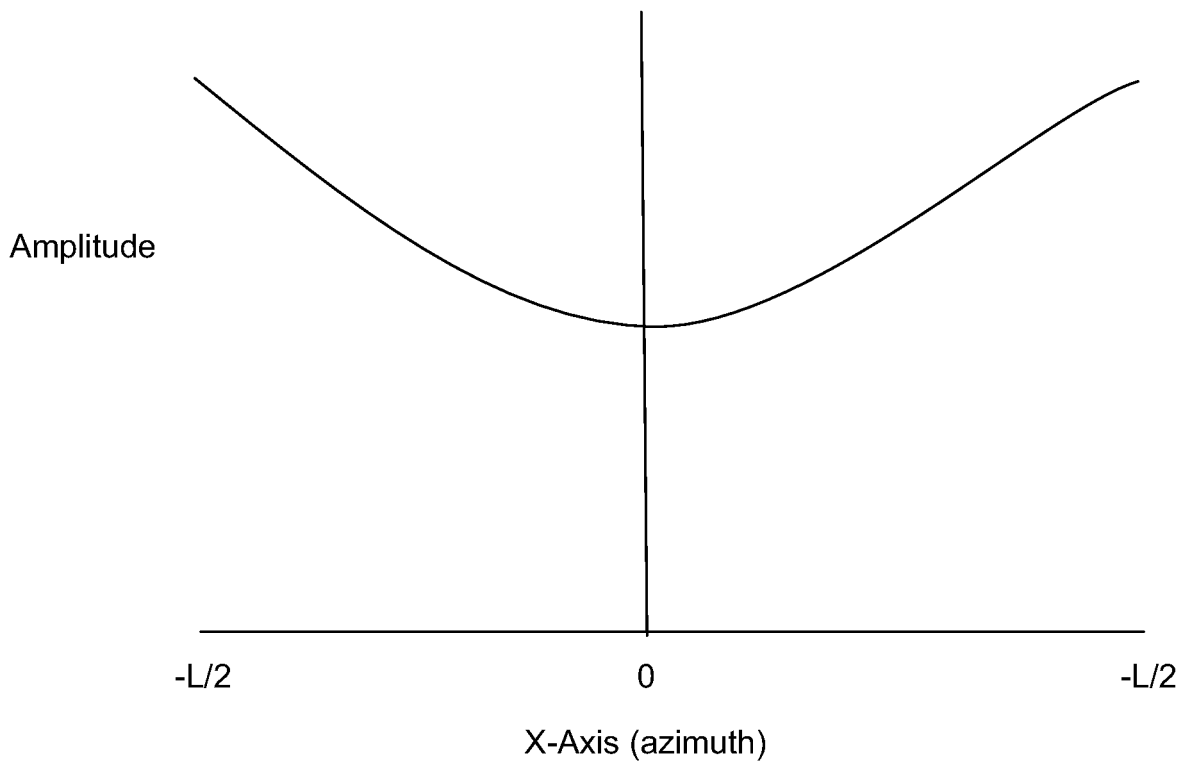


FIG. 56

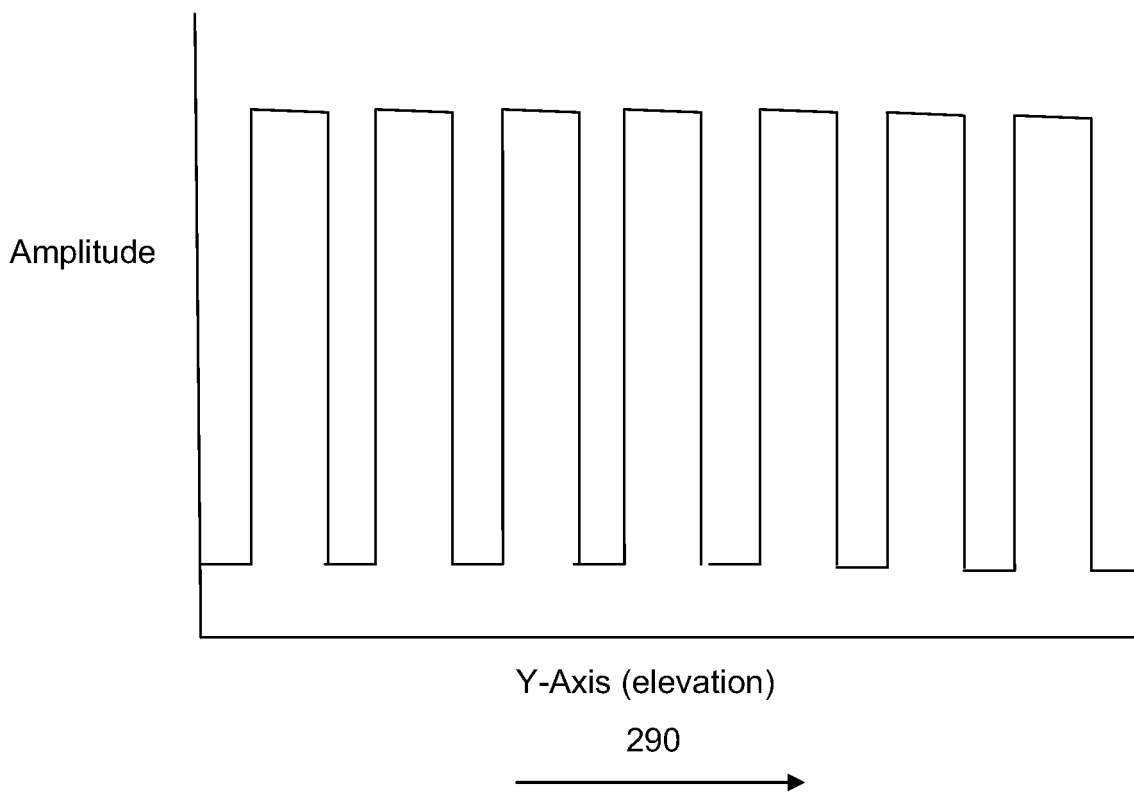


FIG. 57

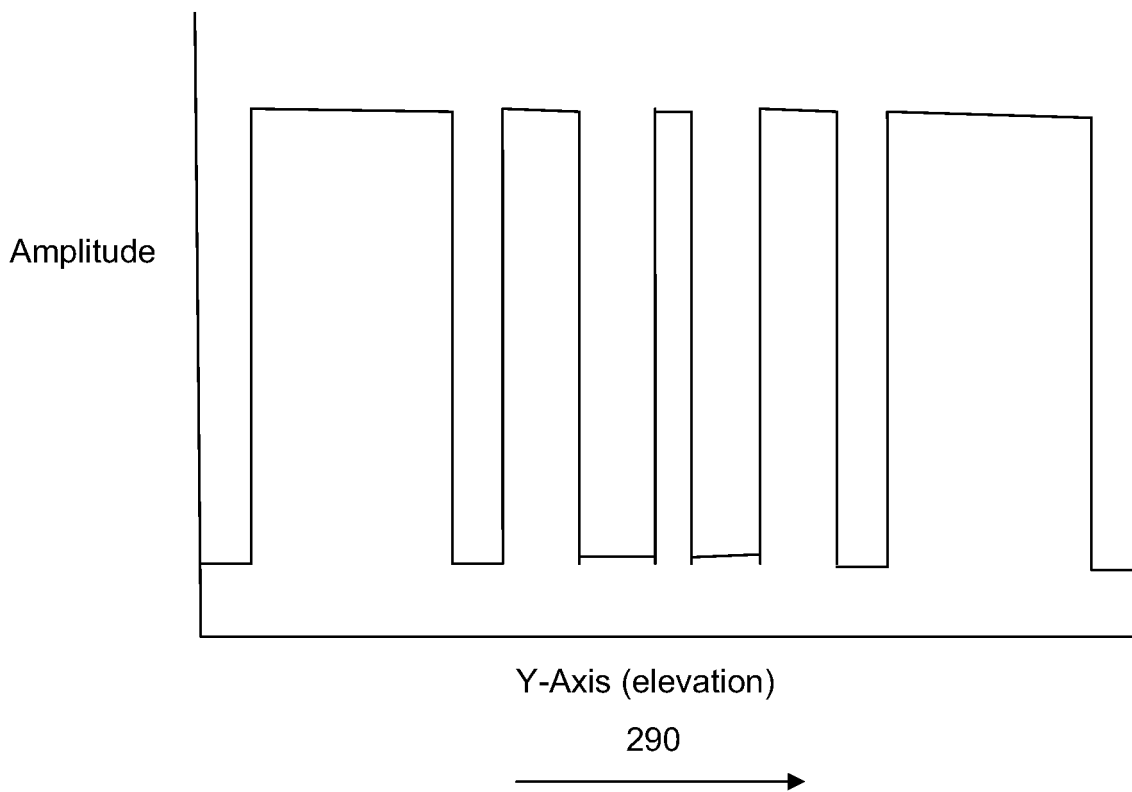


FIG. 58

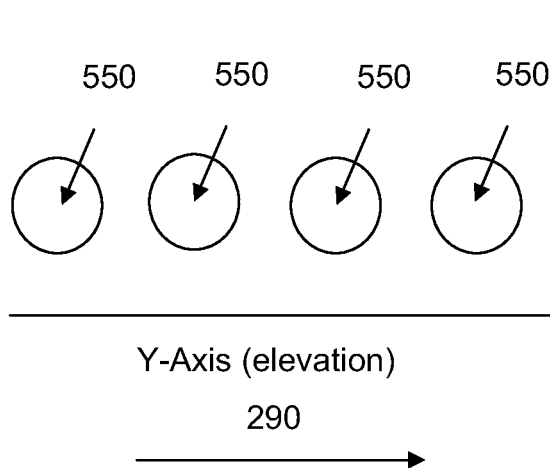


FIG. 59

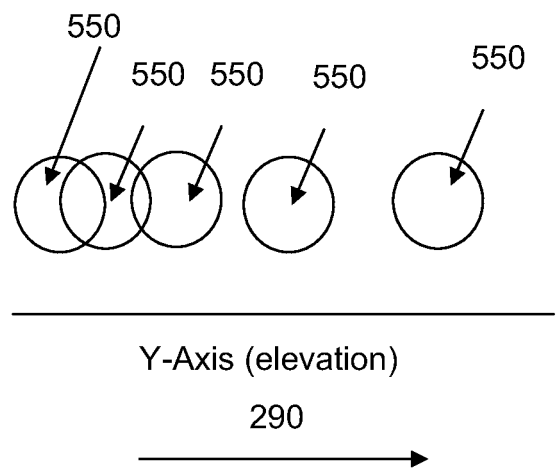


FIG. 60

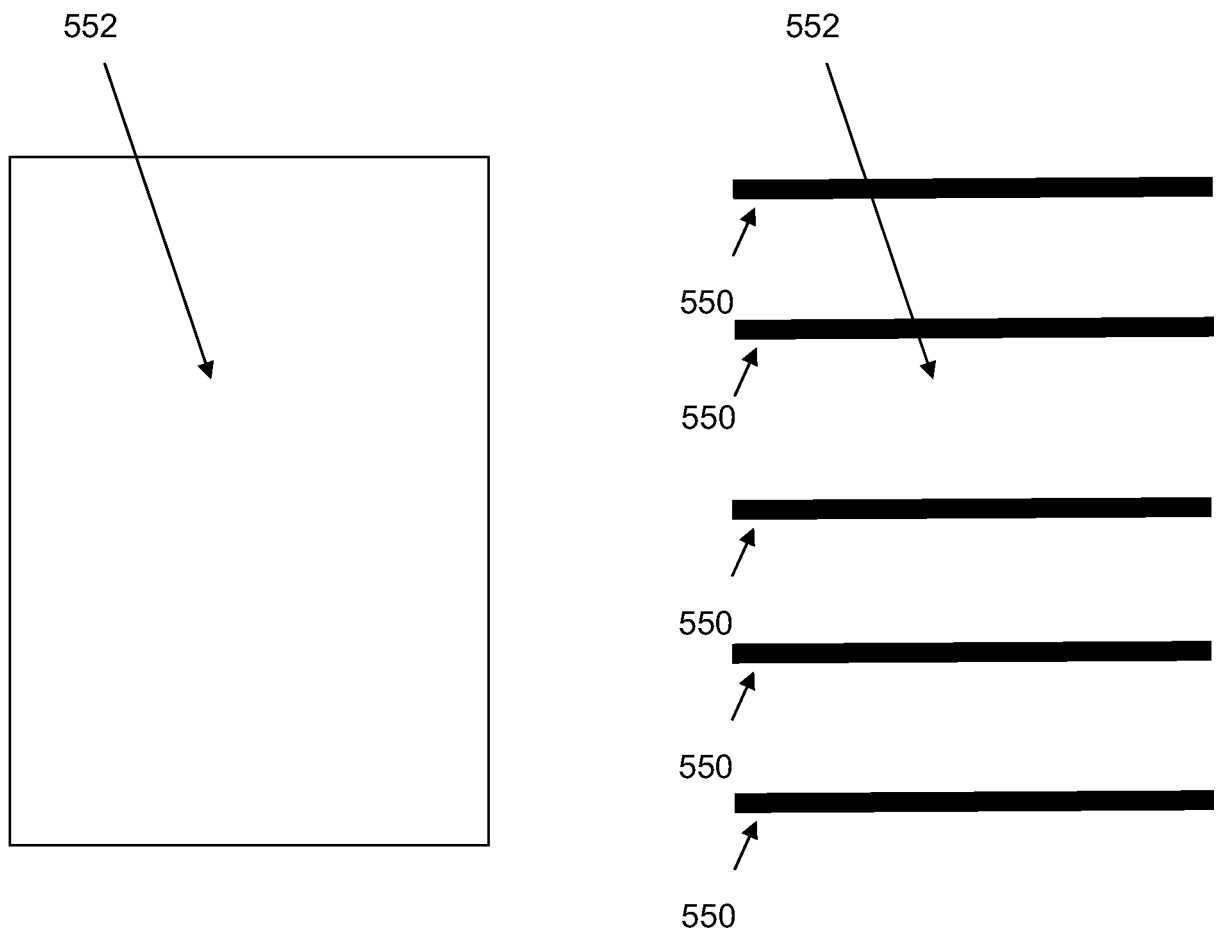


FIG. 61

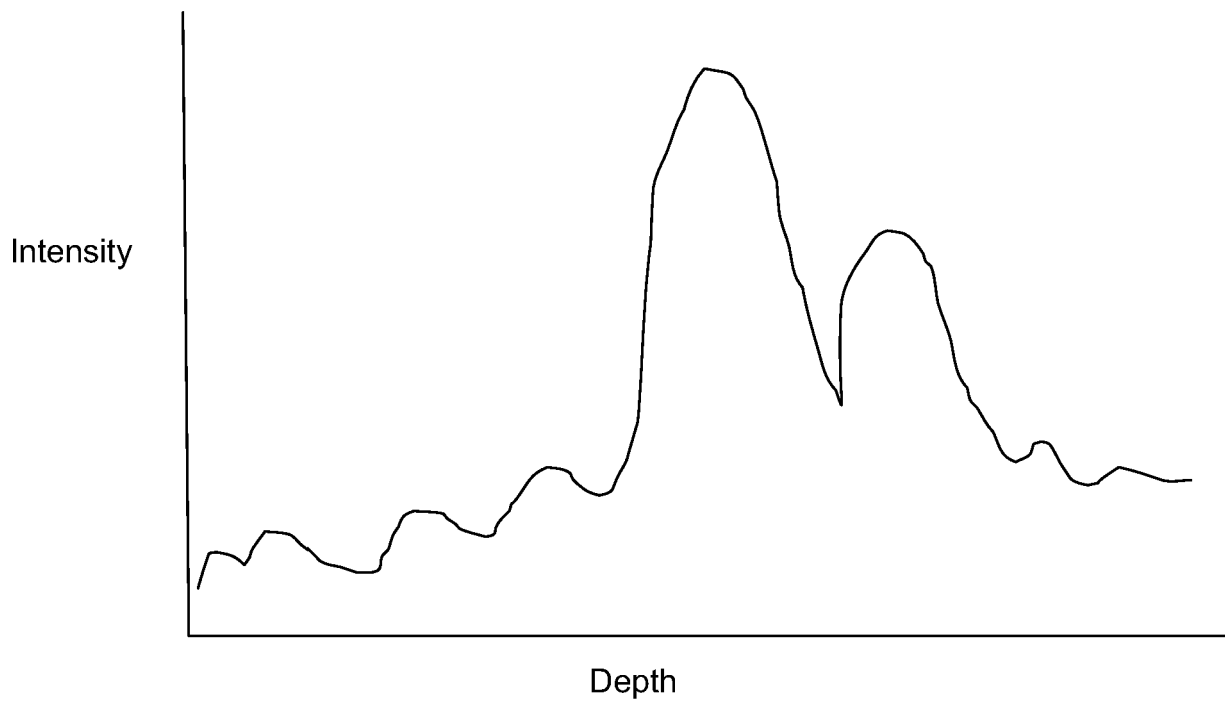


FIG. 62

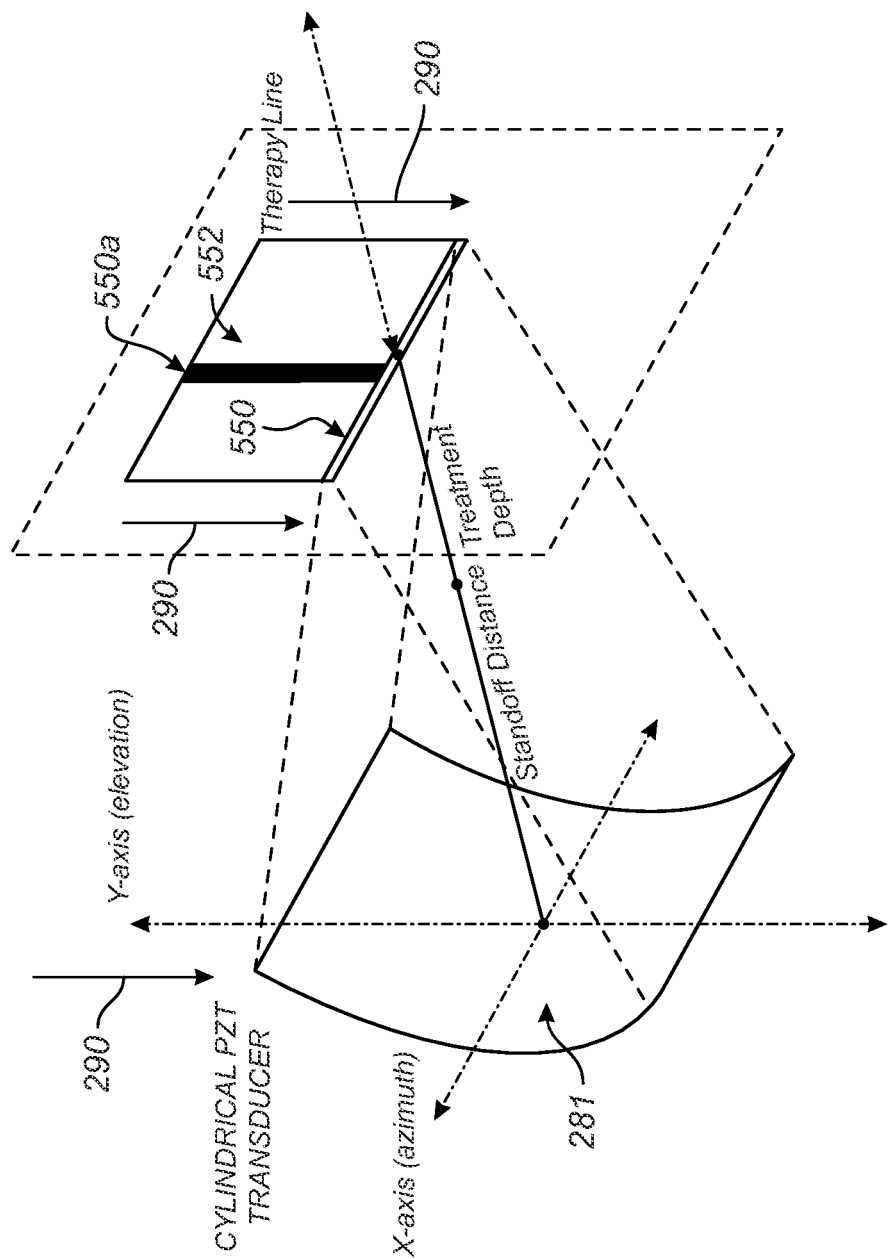


FIG. 63

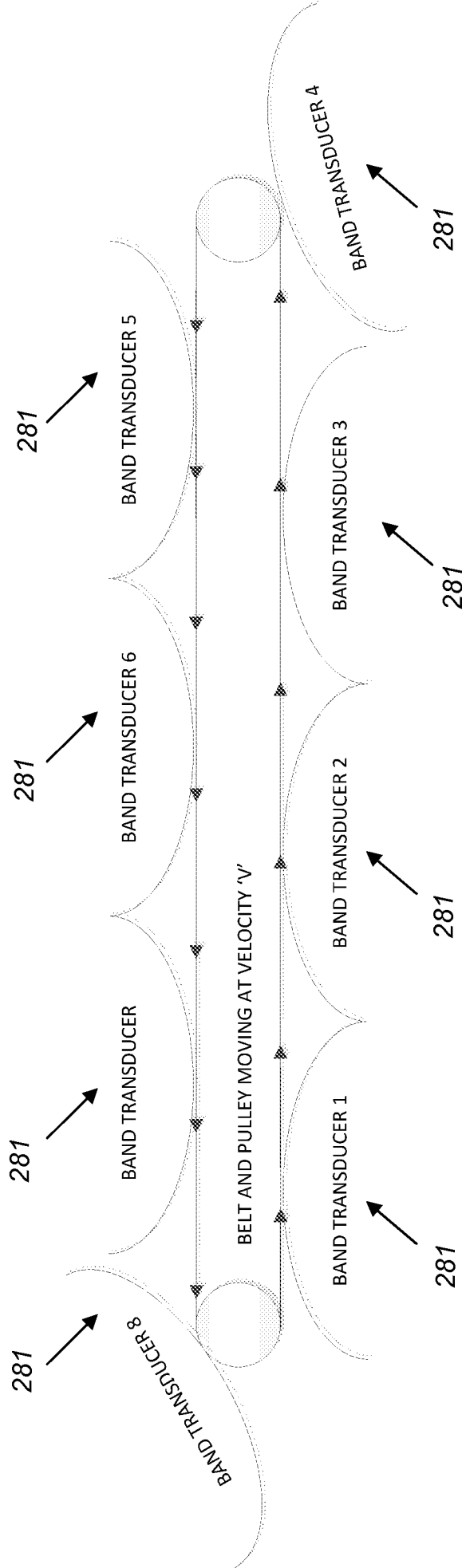


FIG. 64