

1 / 41

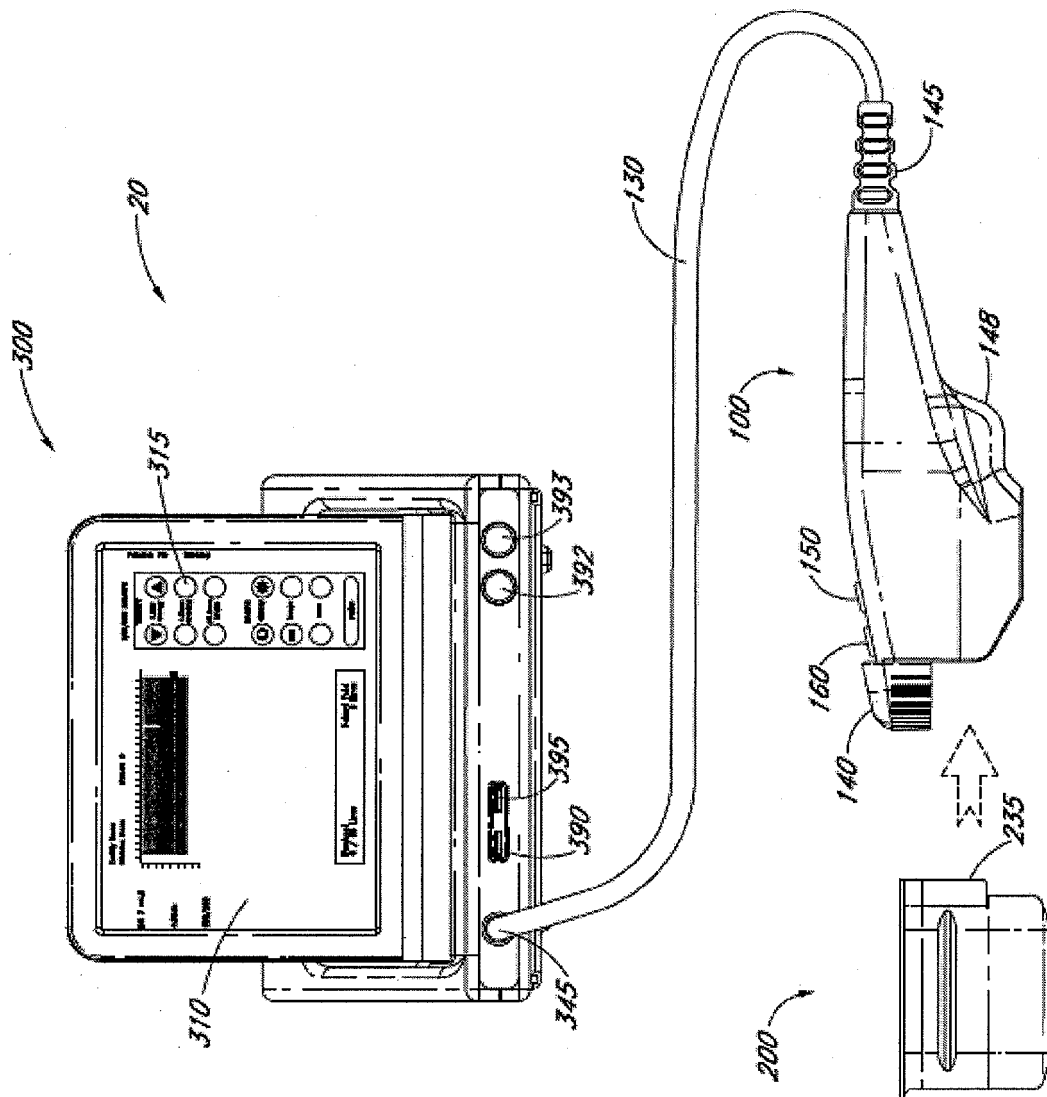


FIG. 1

2 / 41

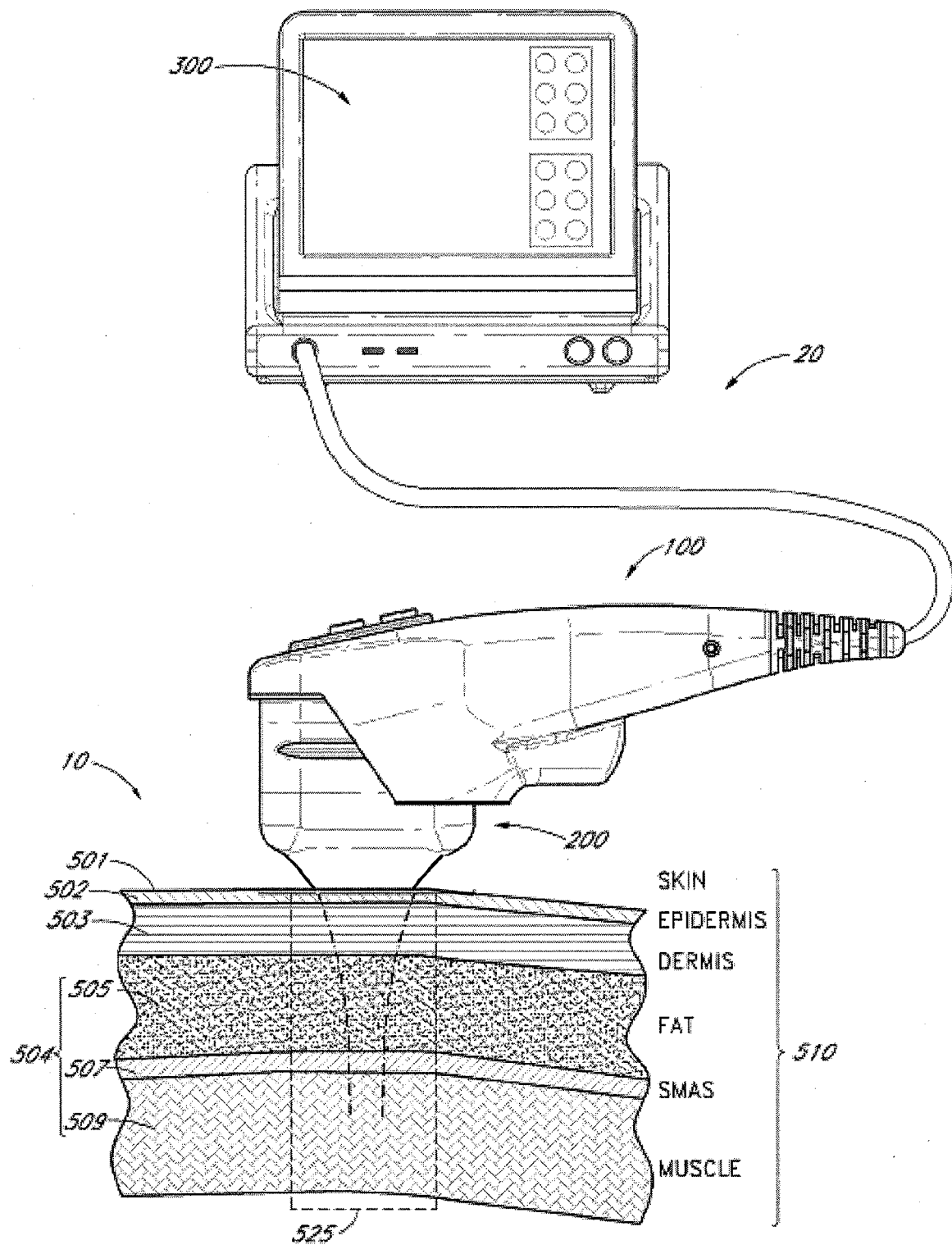
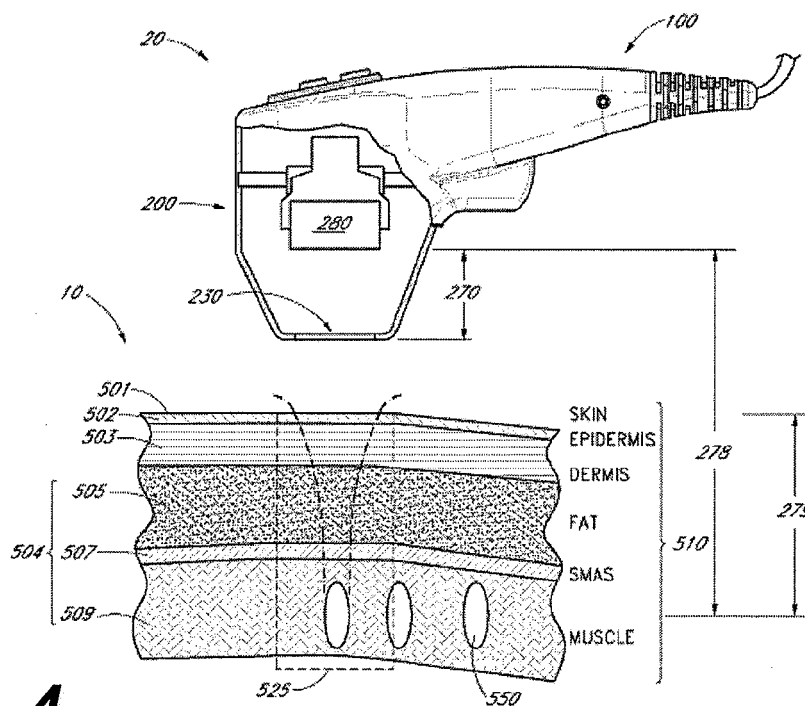
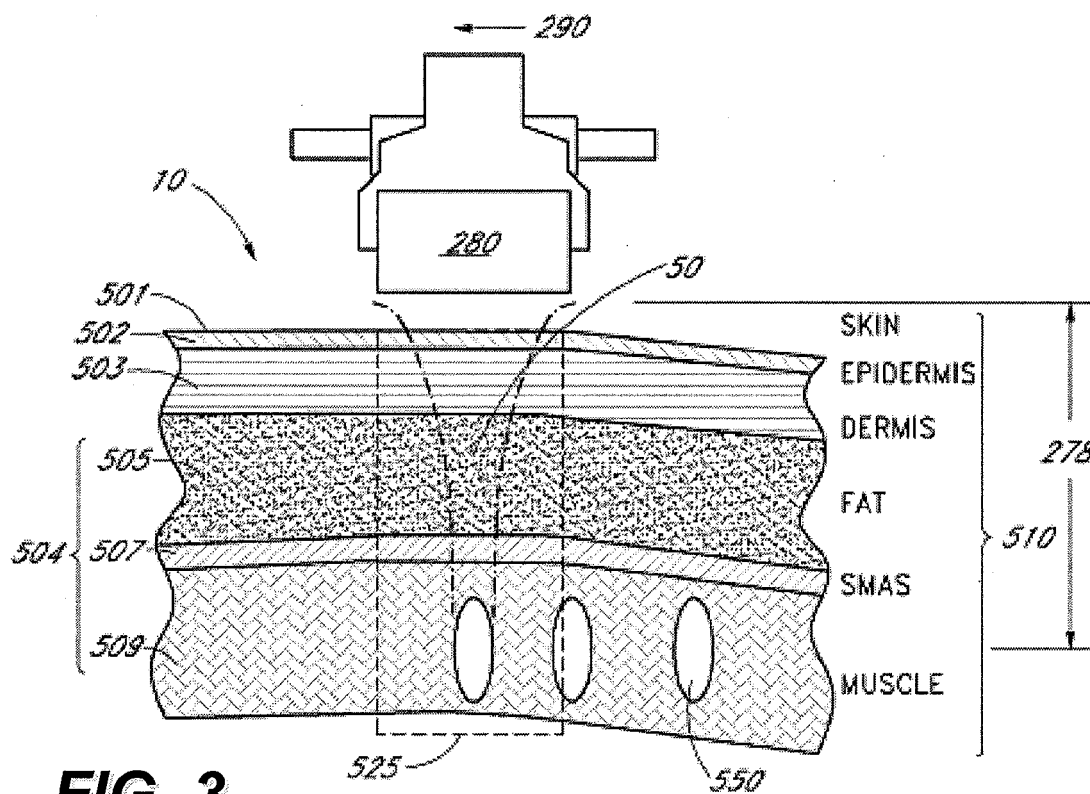
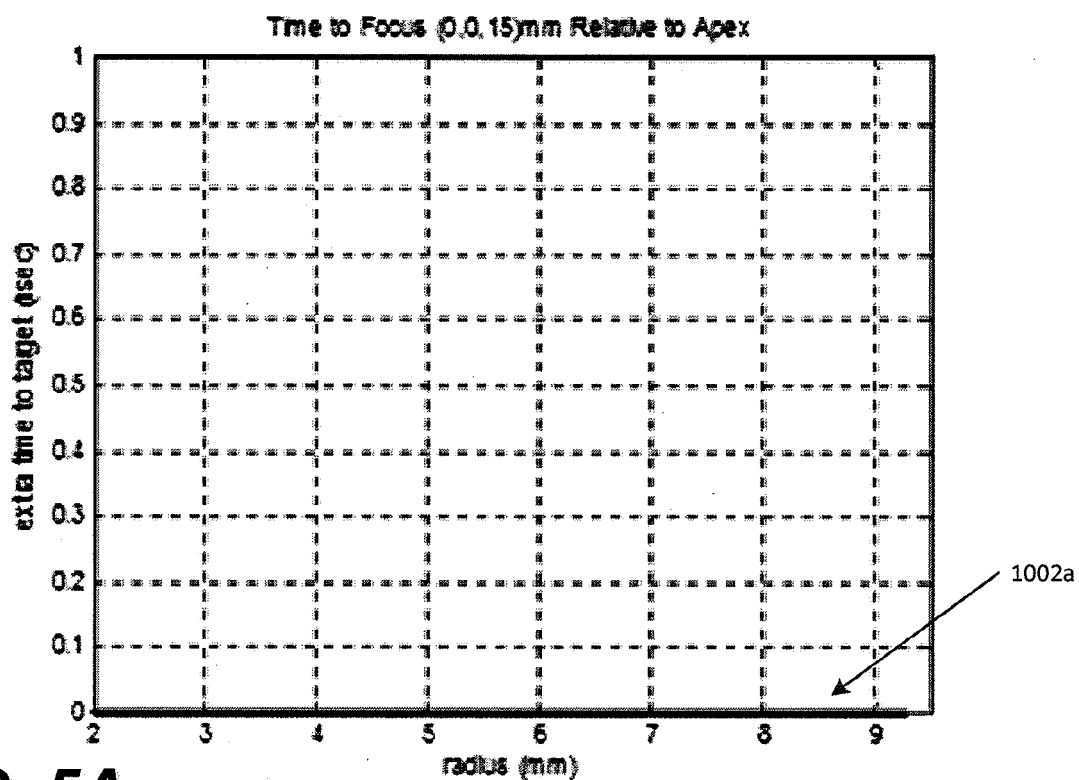
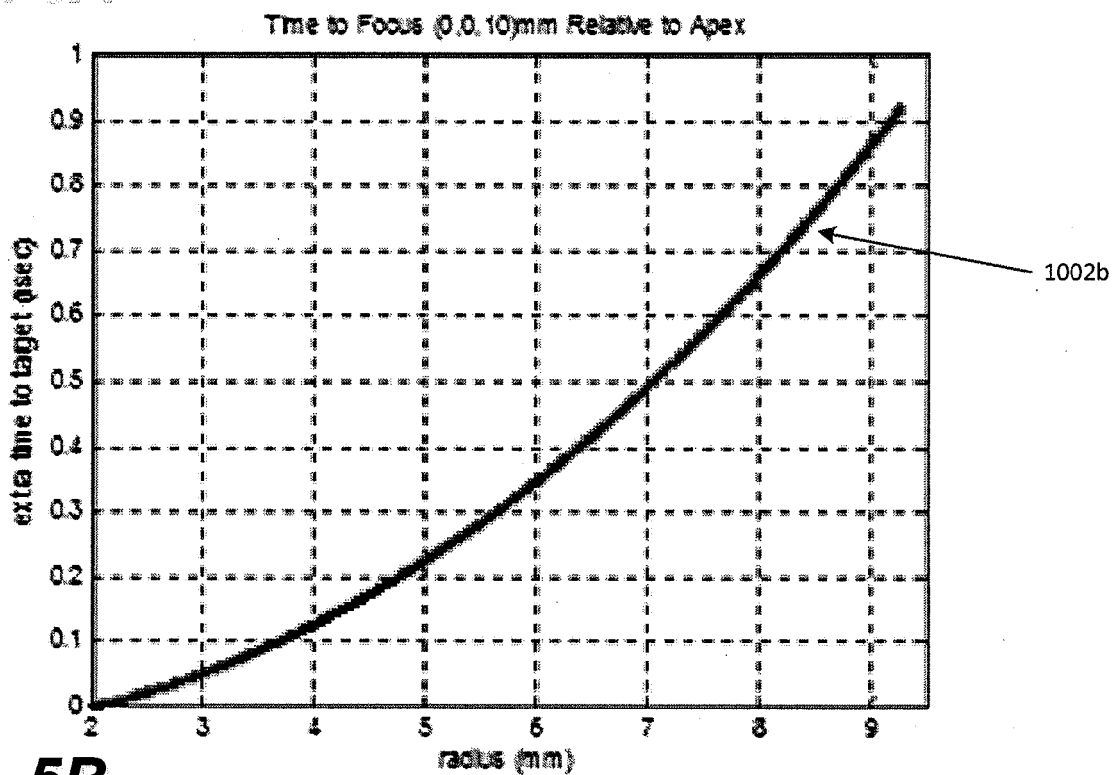


FIG. 2

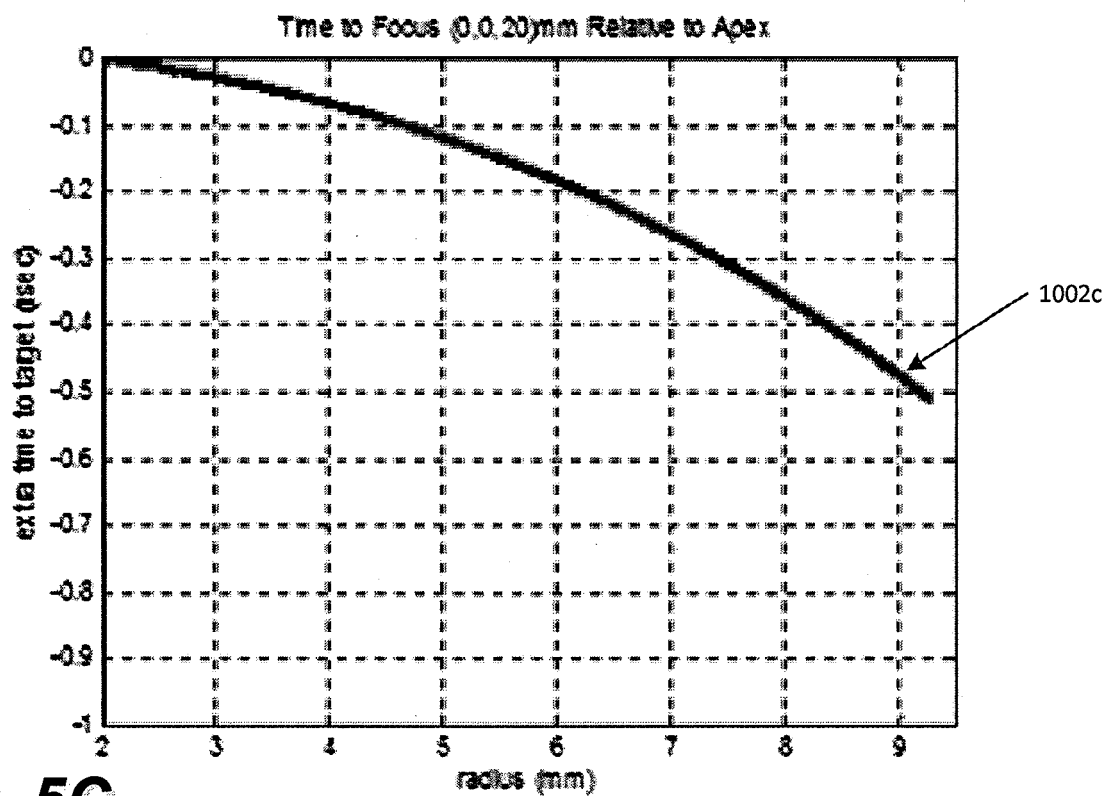
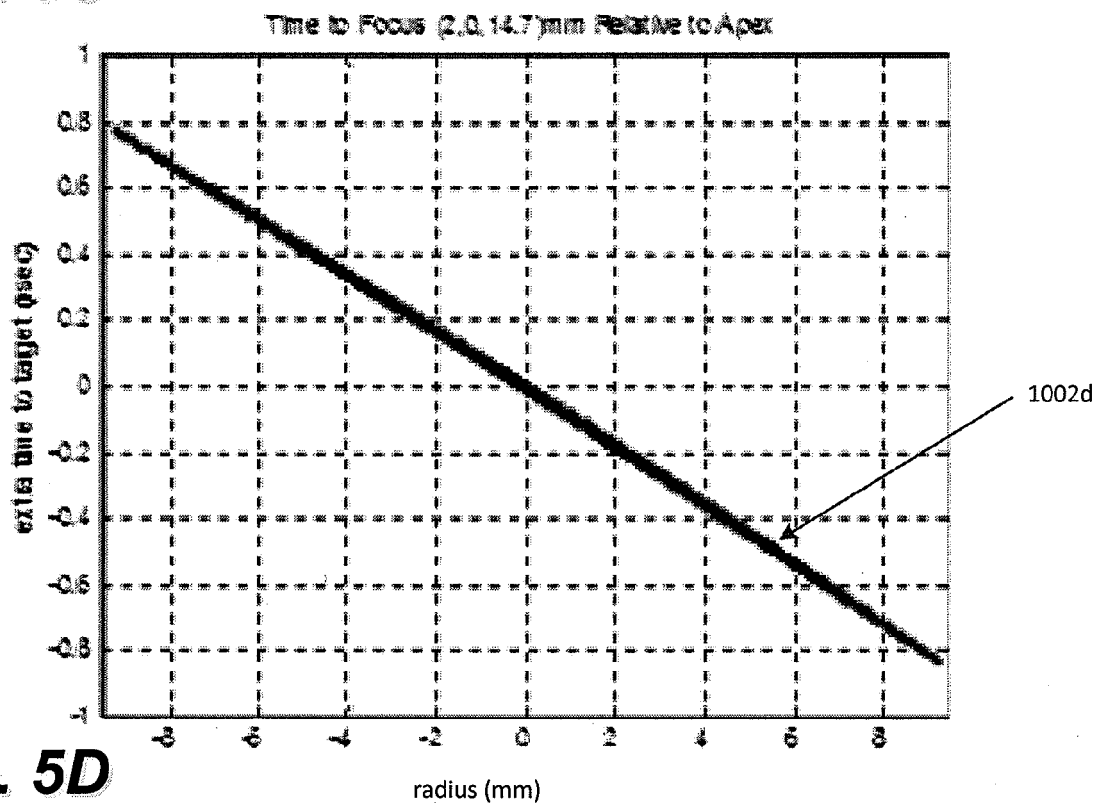
3 / 41



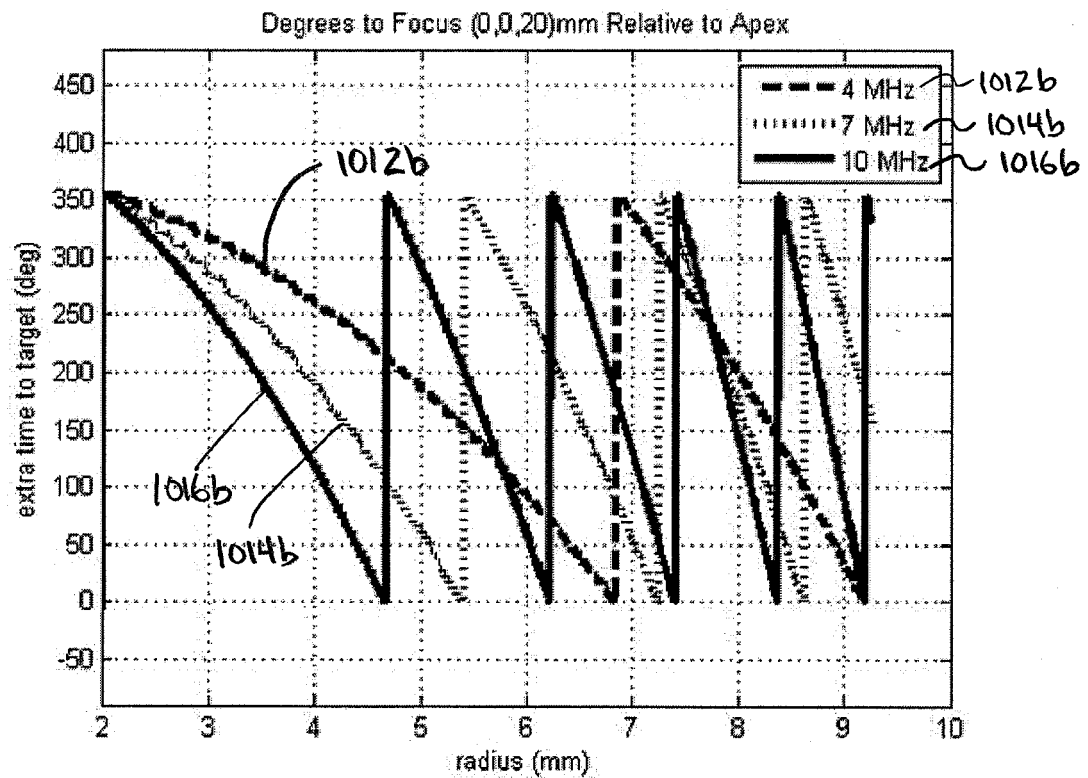
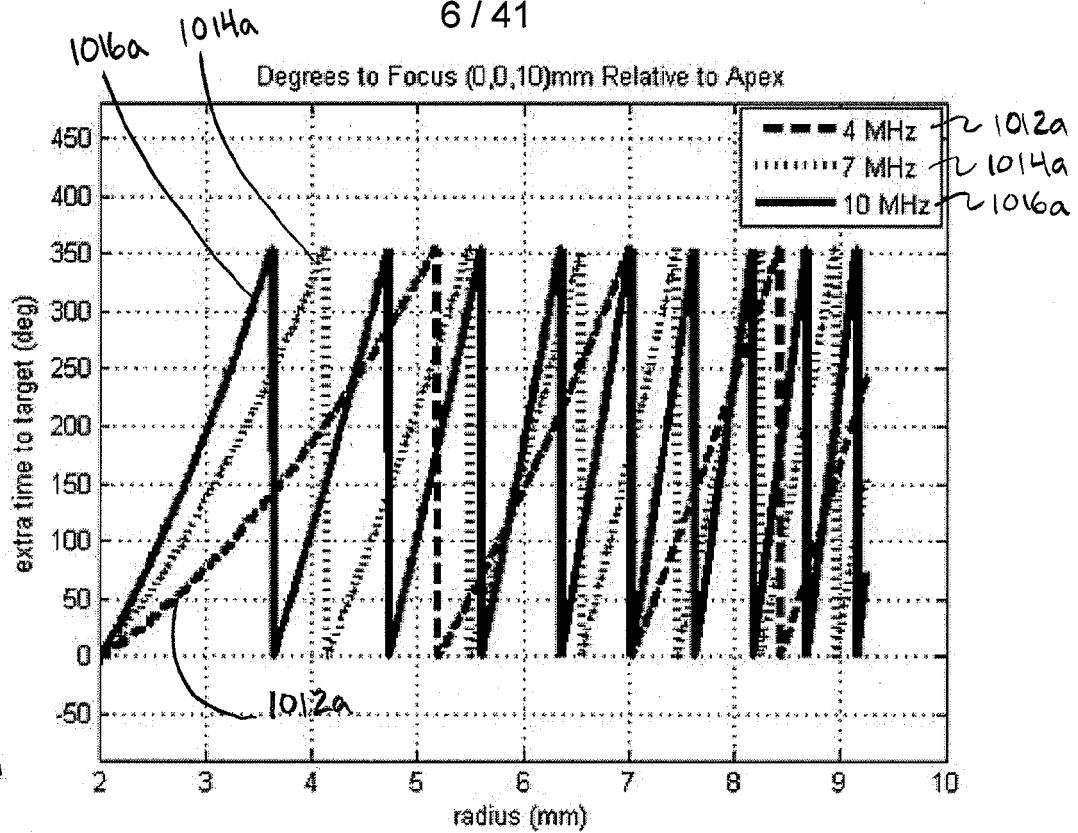
4 / 41

**FIG. 5A****FIG. 5B**

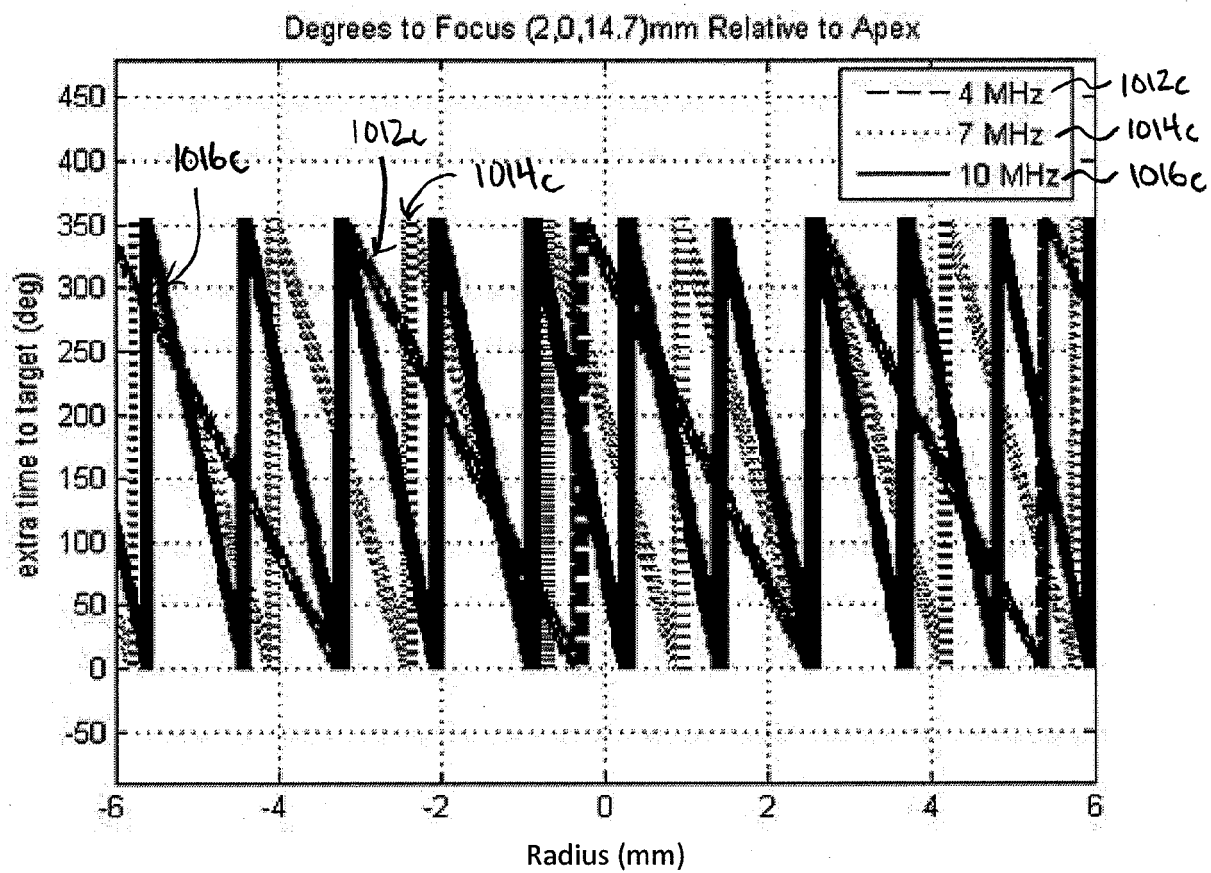
5 / 41

**FIG. 5C****FIG. 5D**

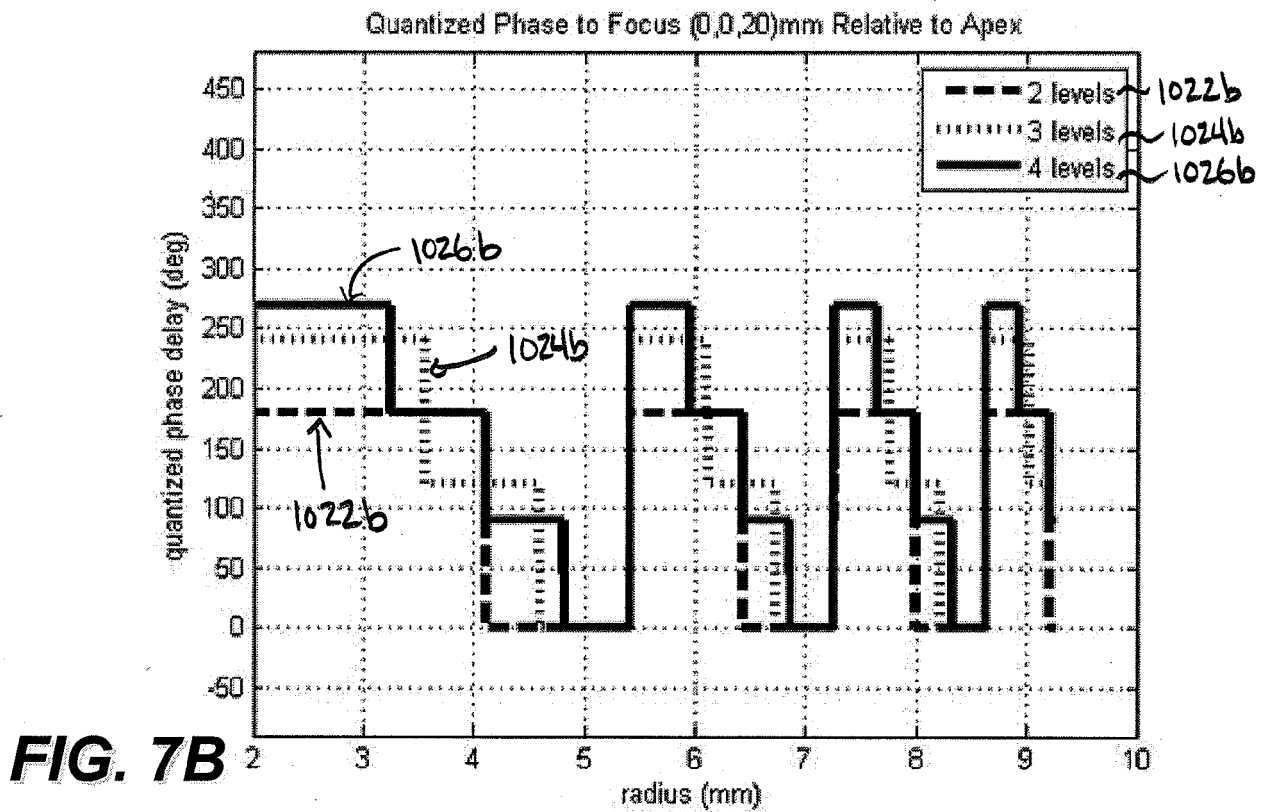
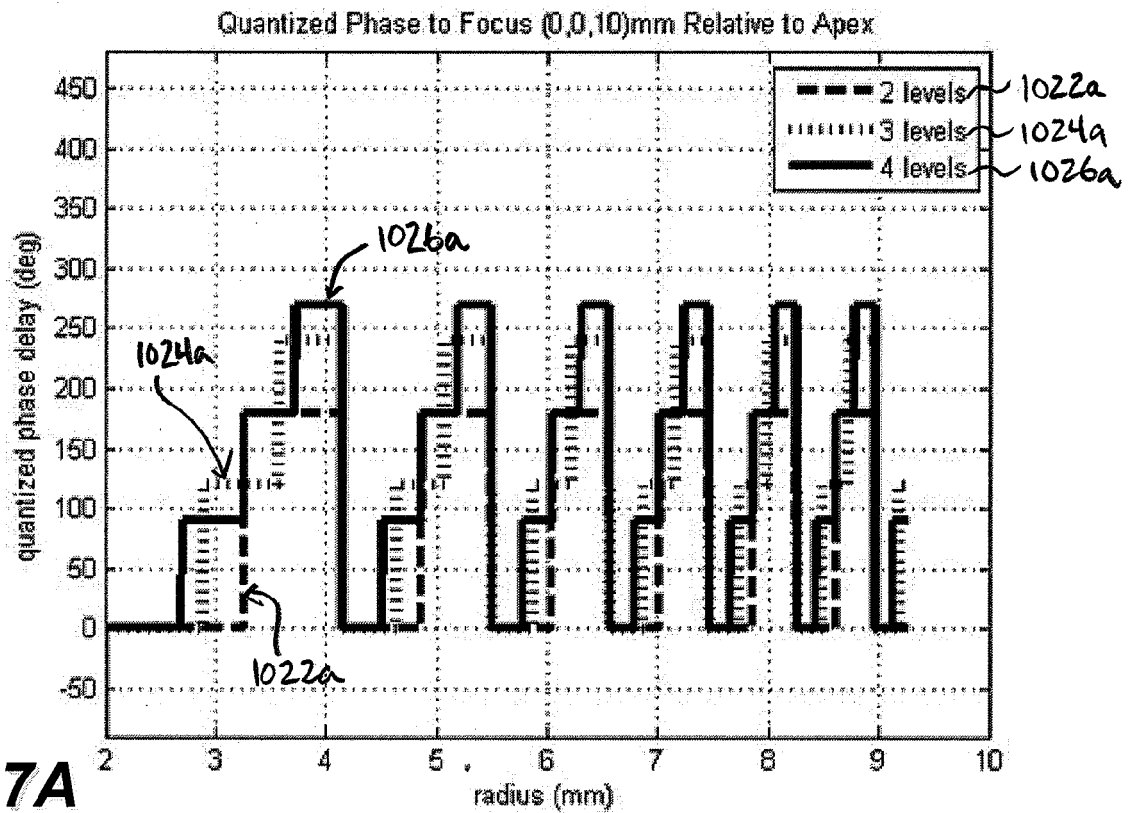
6 / 41



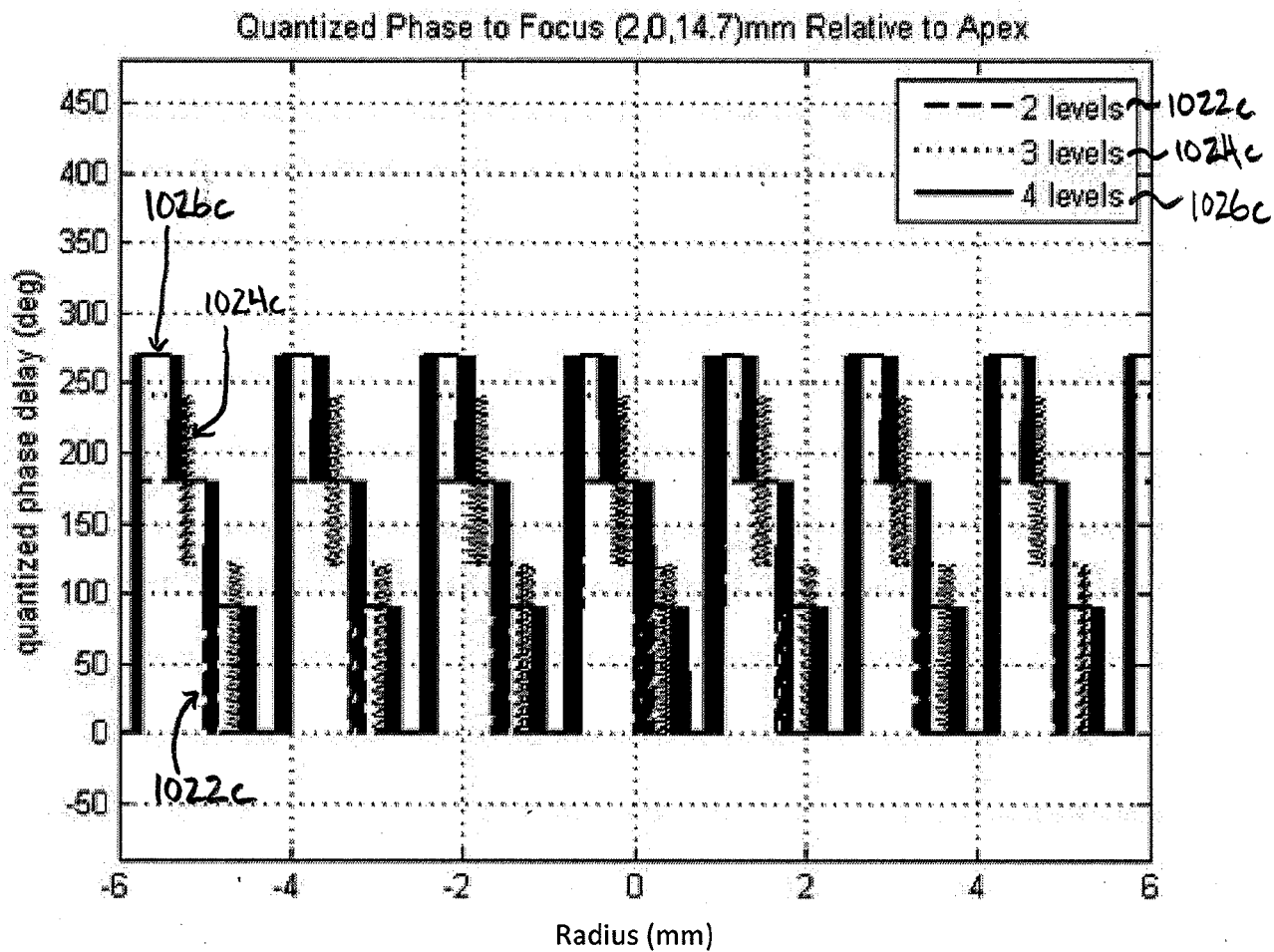
7 / 41

**FIG. 6C**

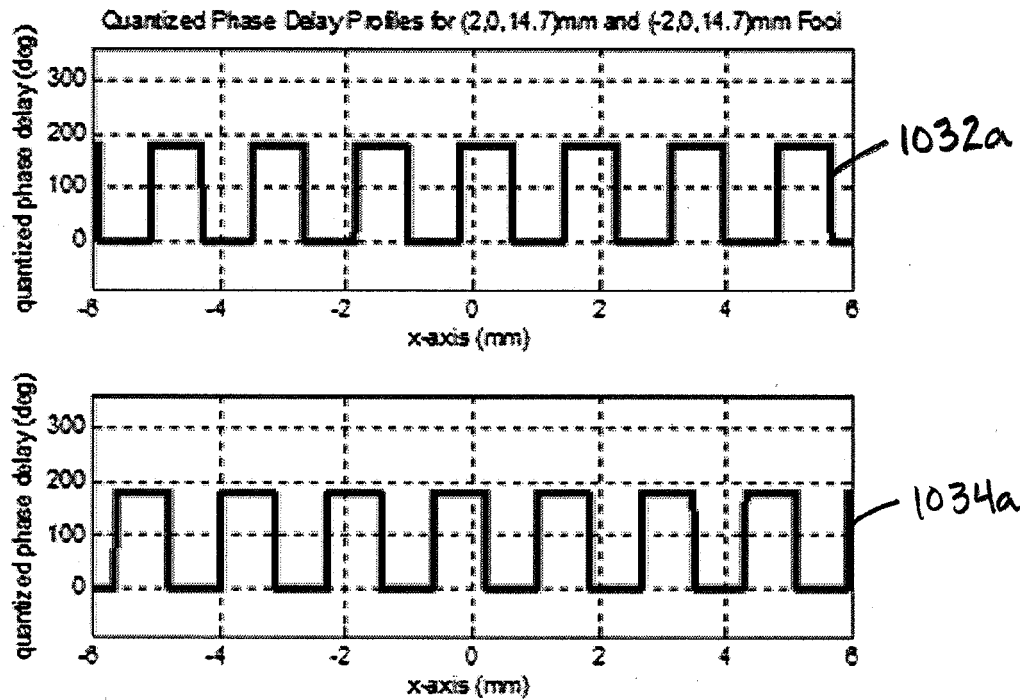
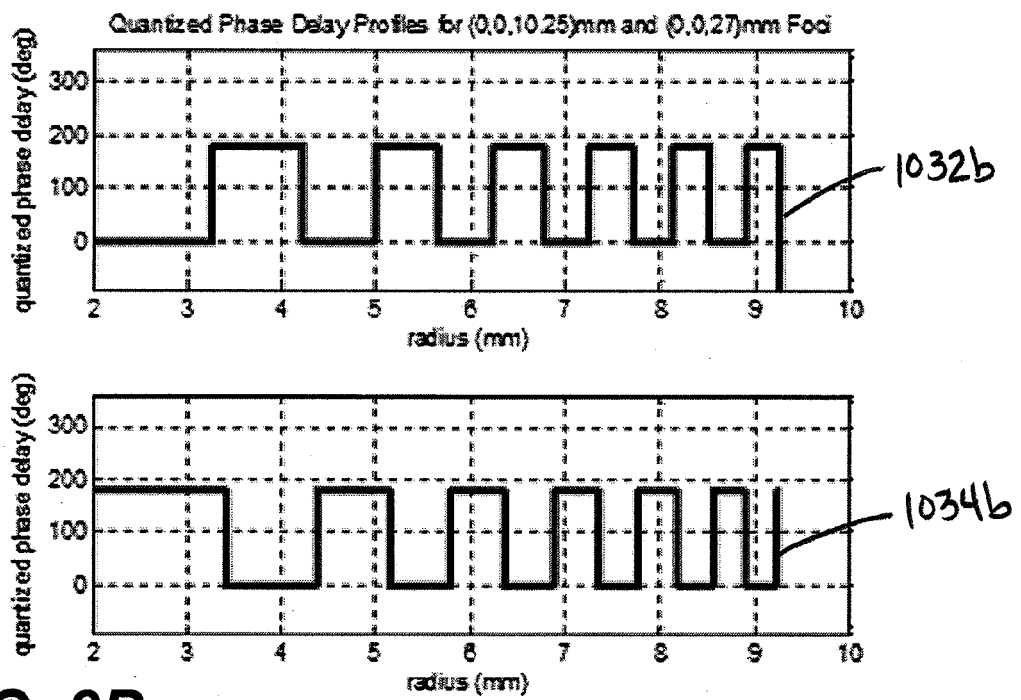
8 / 41



9 / 41

**FIG. 7C**

10 / 41

**FIG. 8A****FIG. 8B**

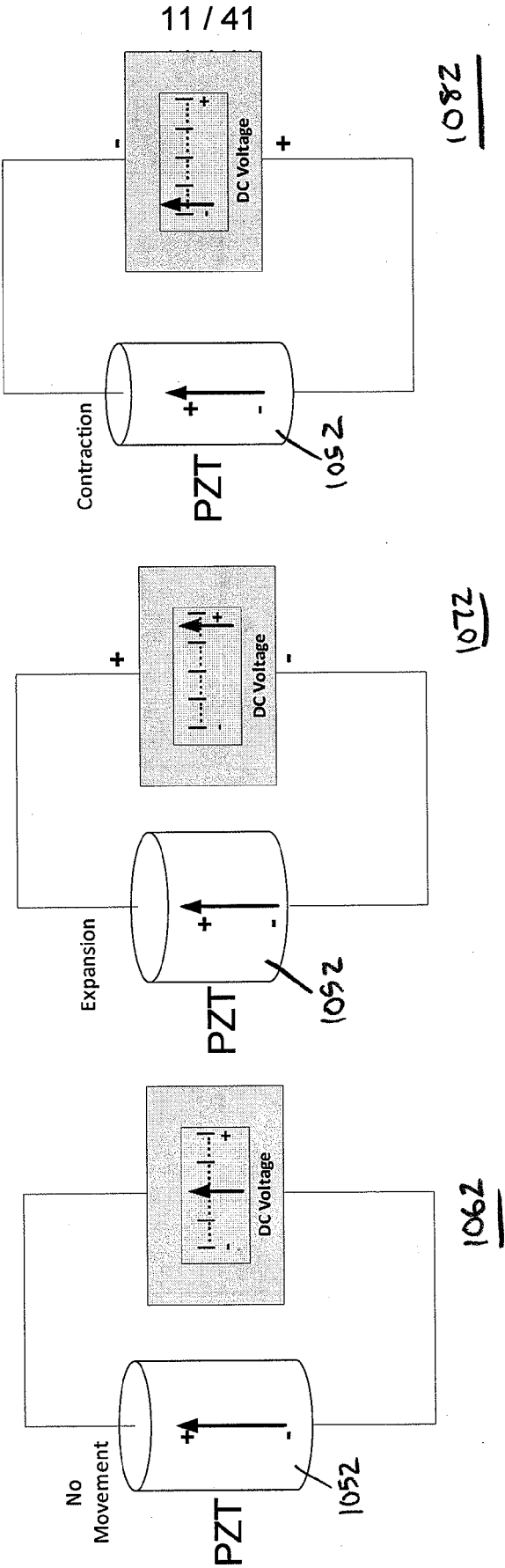
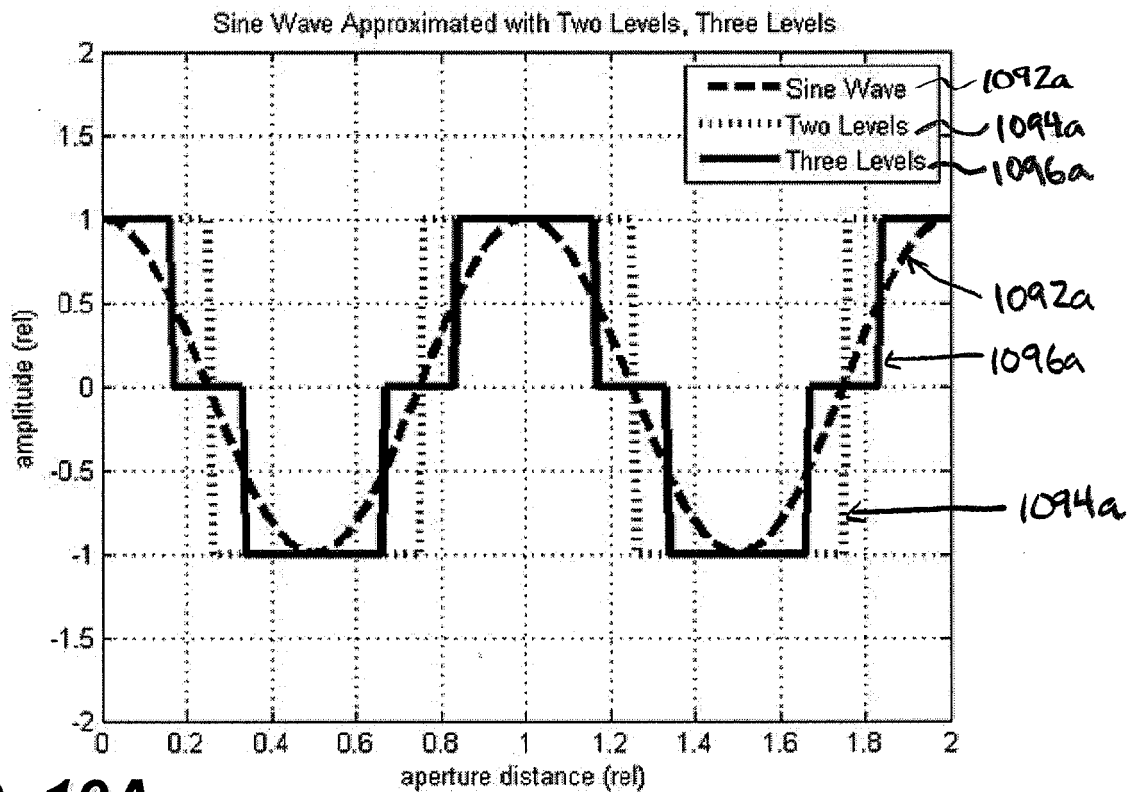
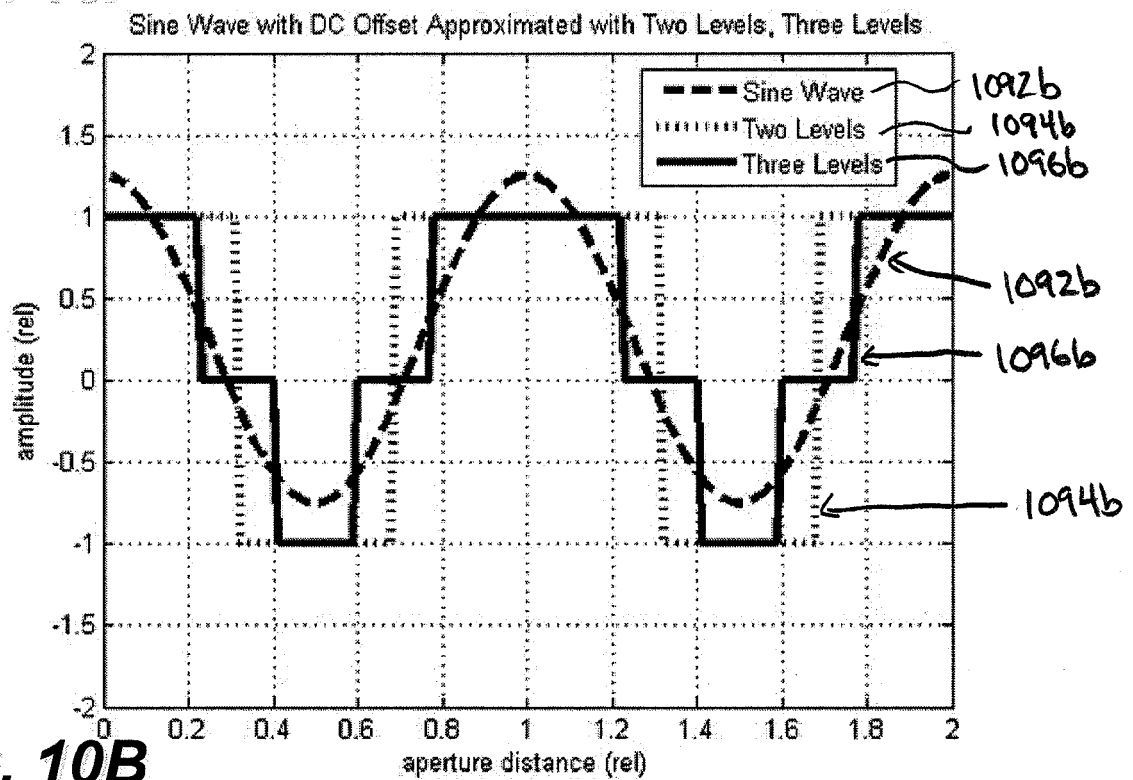


FIG. 9

12 / 41

**FIG. 10A****FIG. 10B**

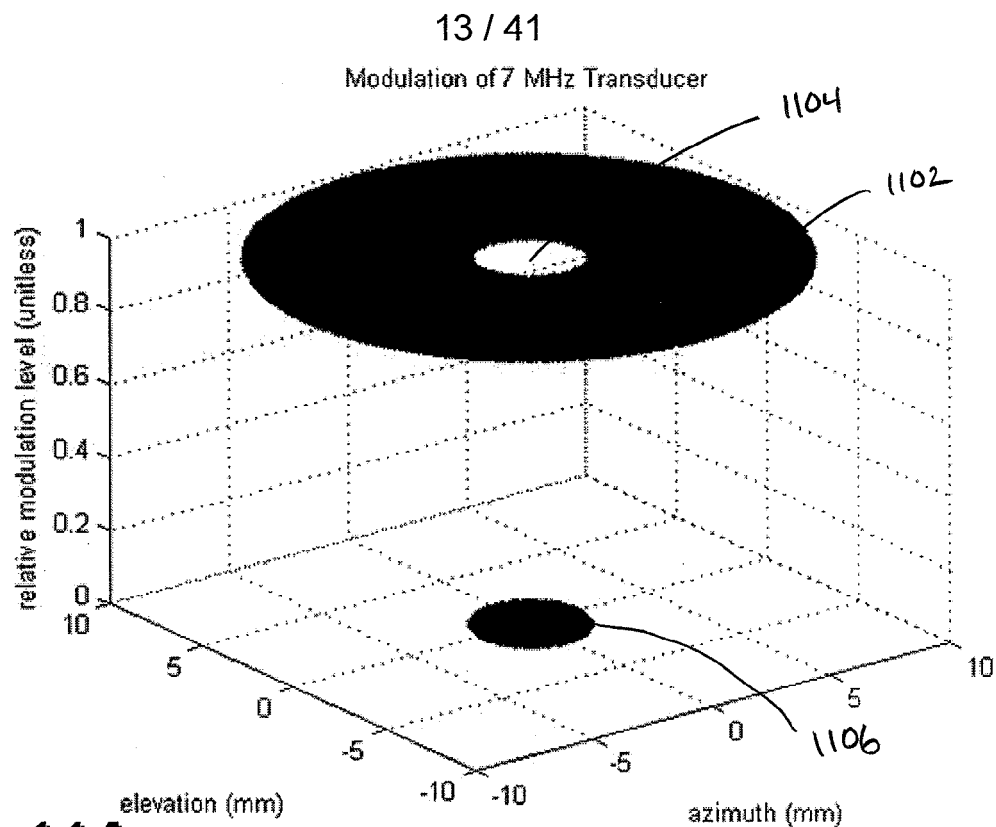


FIG. 11A

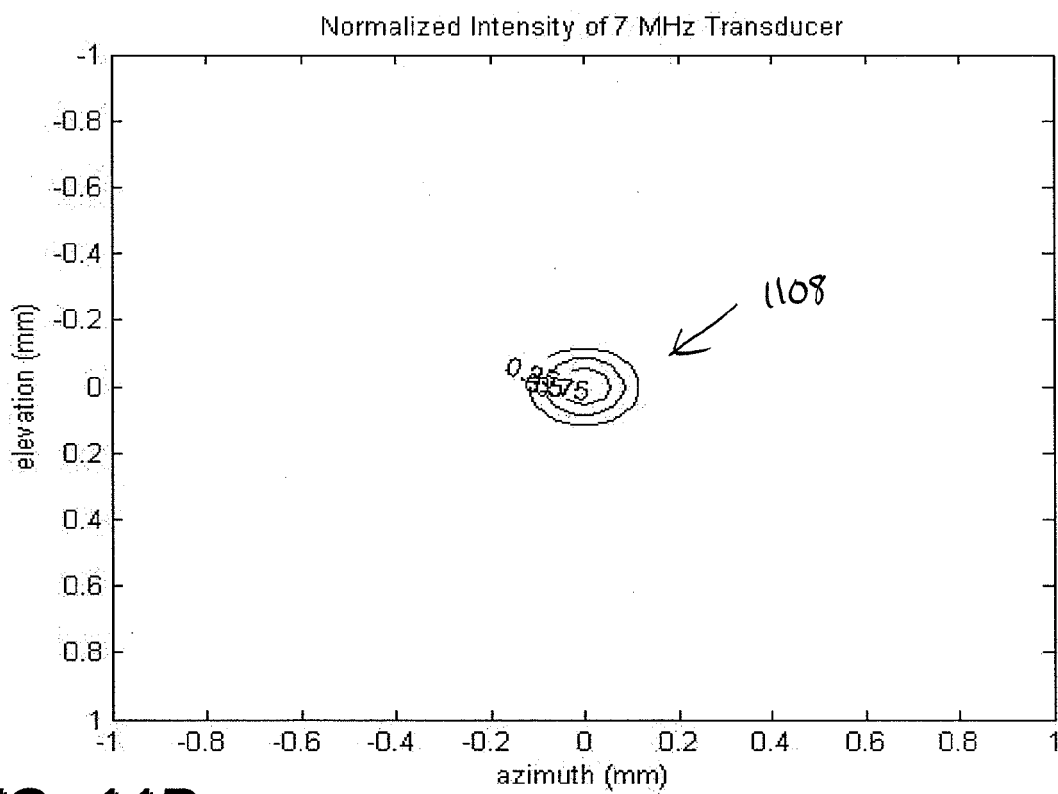
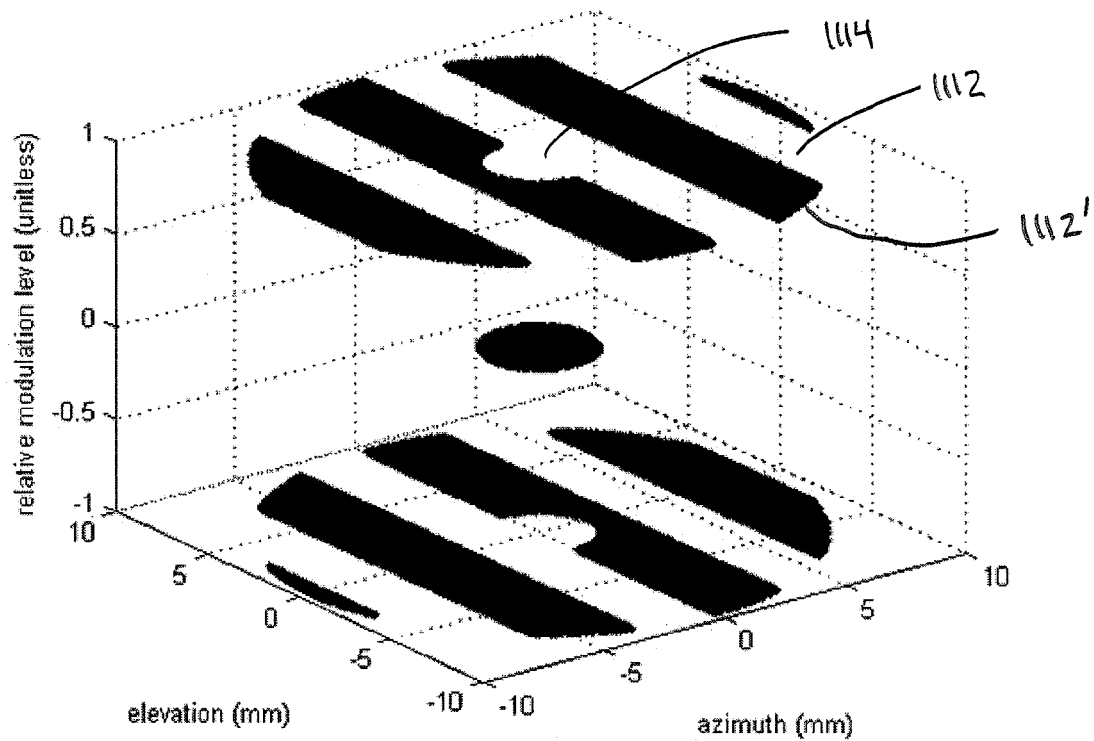


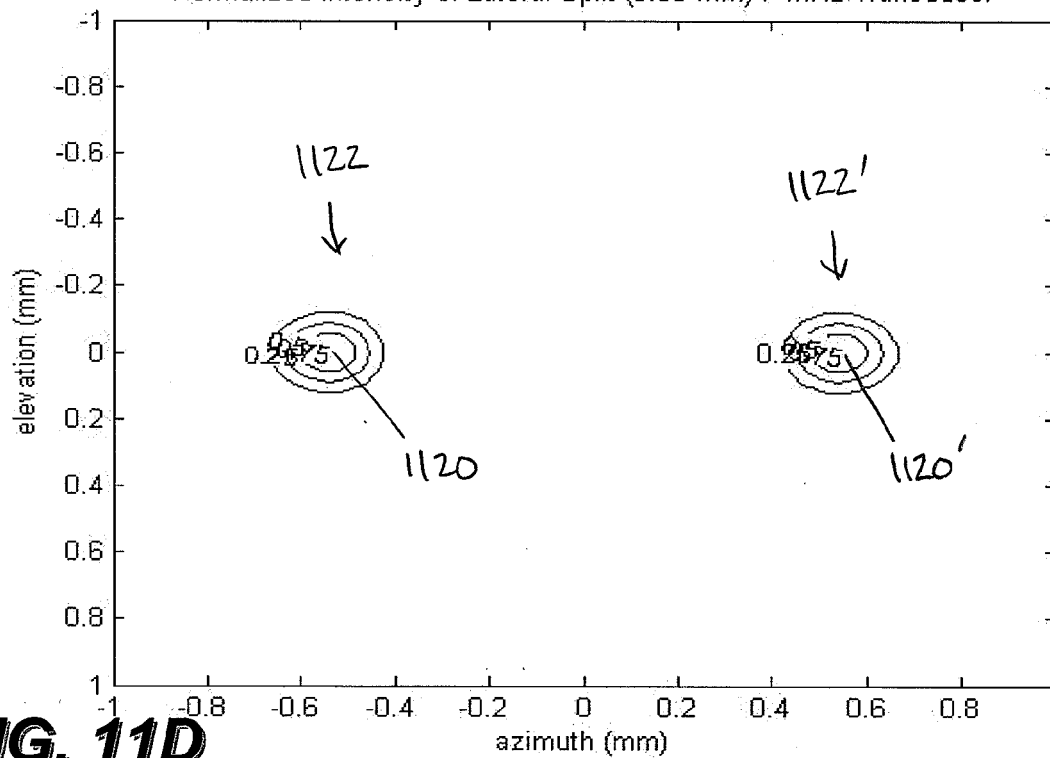
FIG. 11B

14 / 41

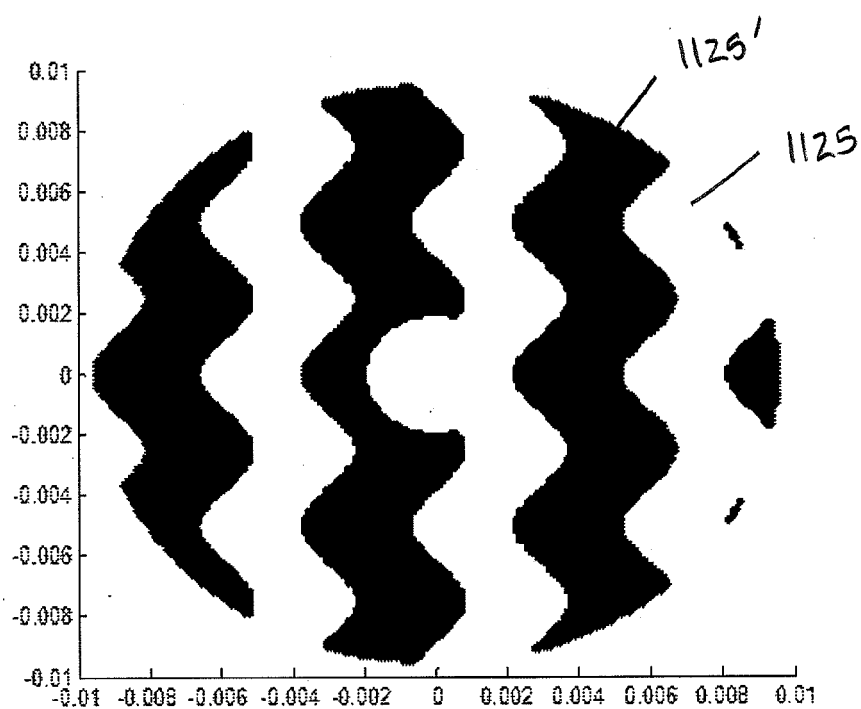
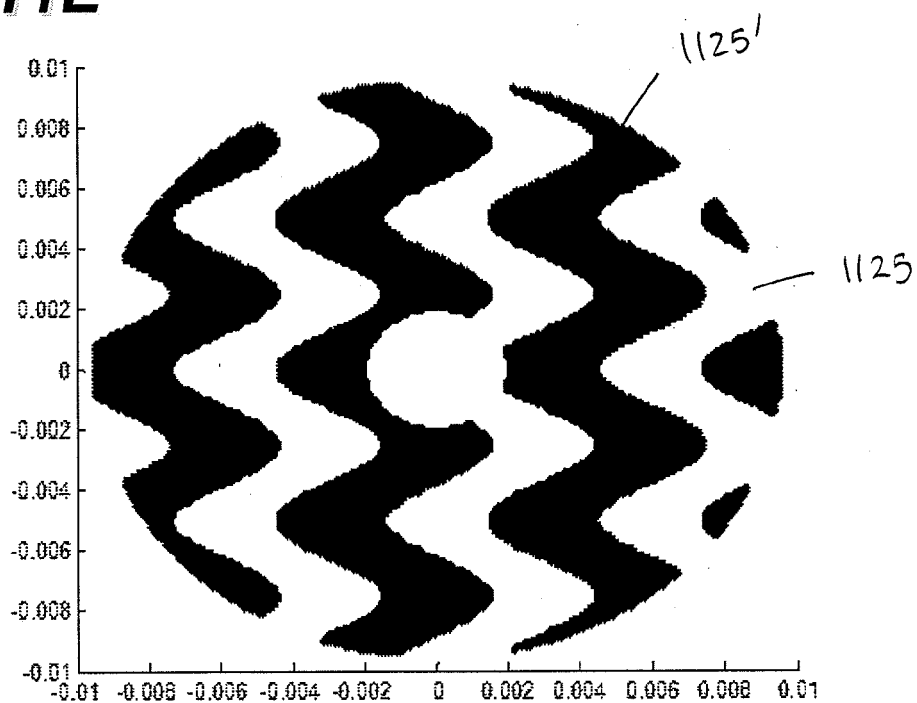
Modulation of Lateral Split (0.55 mm) 7 MHz Transducer

**FIG. 11C**

Normalized Intensity of Lateral Split (0.55 mm) 7 MHz Transducer

**FIG. 11D**

15 / 41

**FIG. 11E****FIG. 11F**

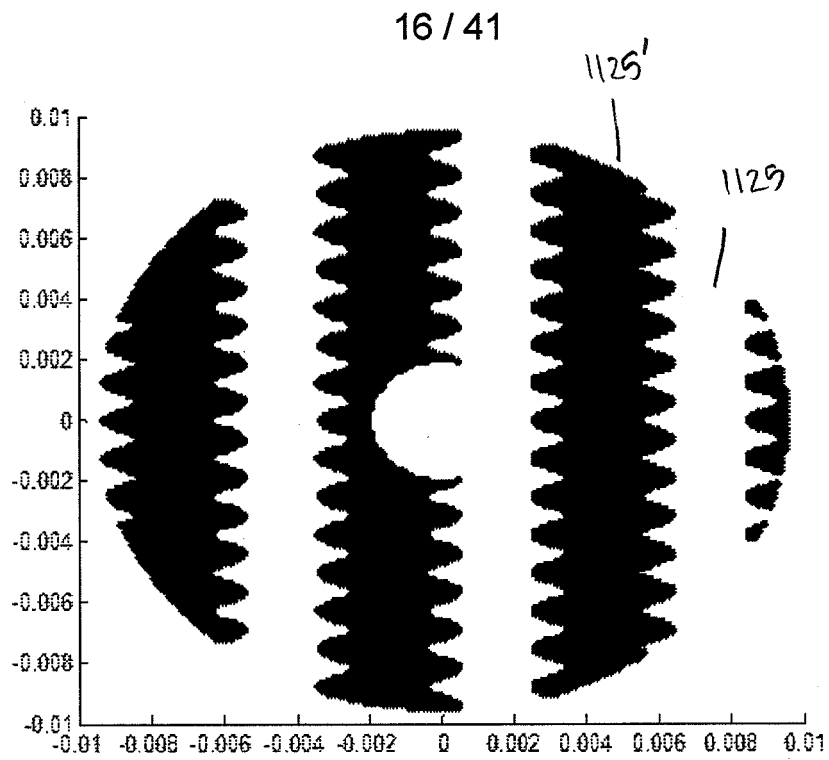


FIG. 11G

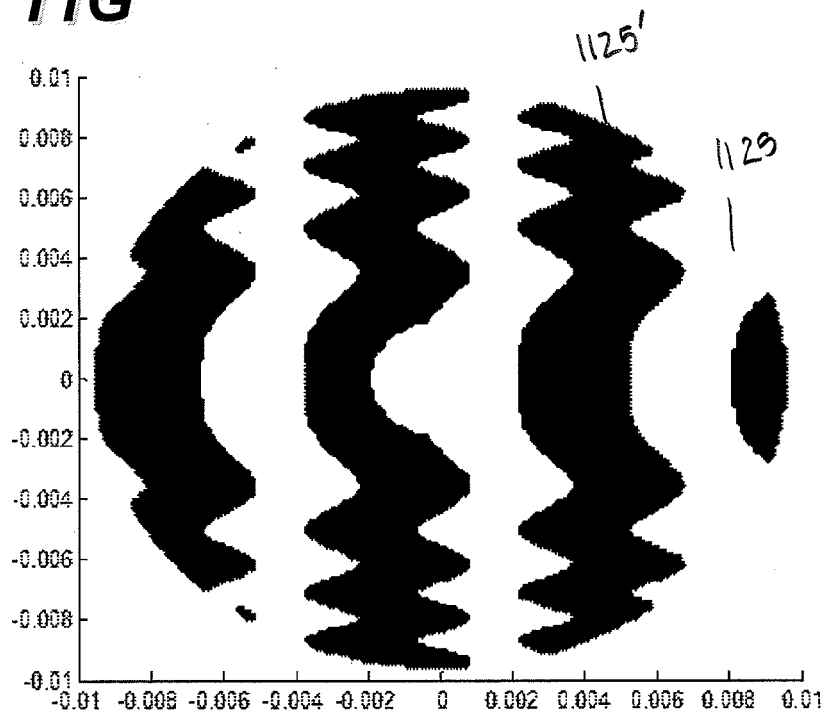
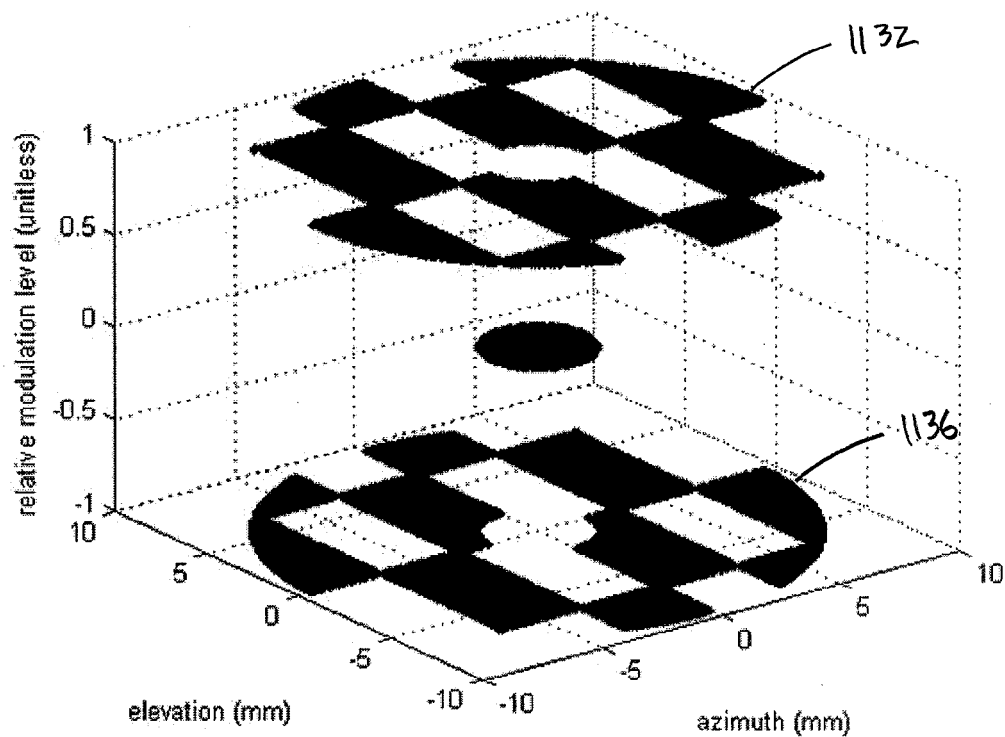


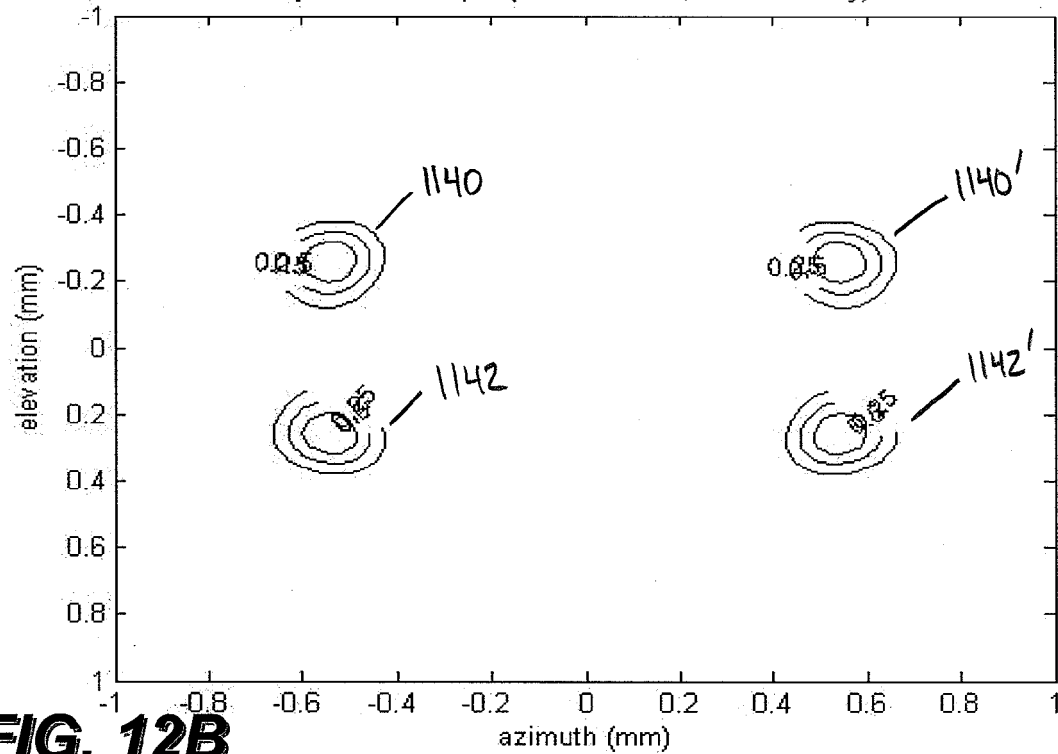
FIG. 11H

17 / 41

Apodization of Lateral Split (0.55 mm in x, 0.25 mm in y) 7 MHz Transducer

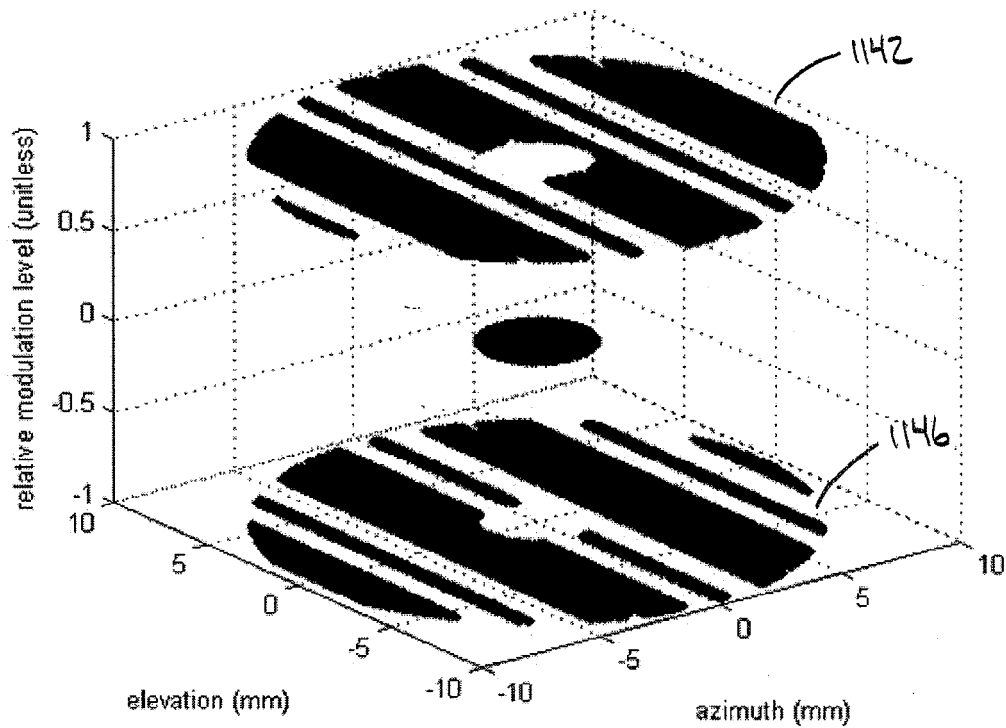
**FIG. 12A**

Normalized Intensity of Lateral Split (0.55 mm in x, 0.25 mm in y) 7 MHz Transducer

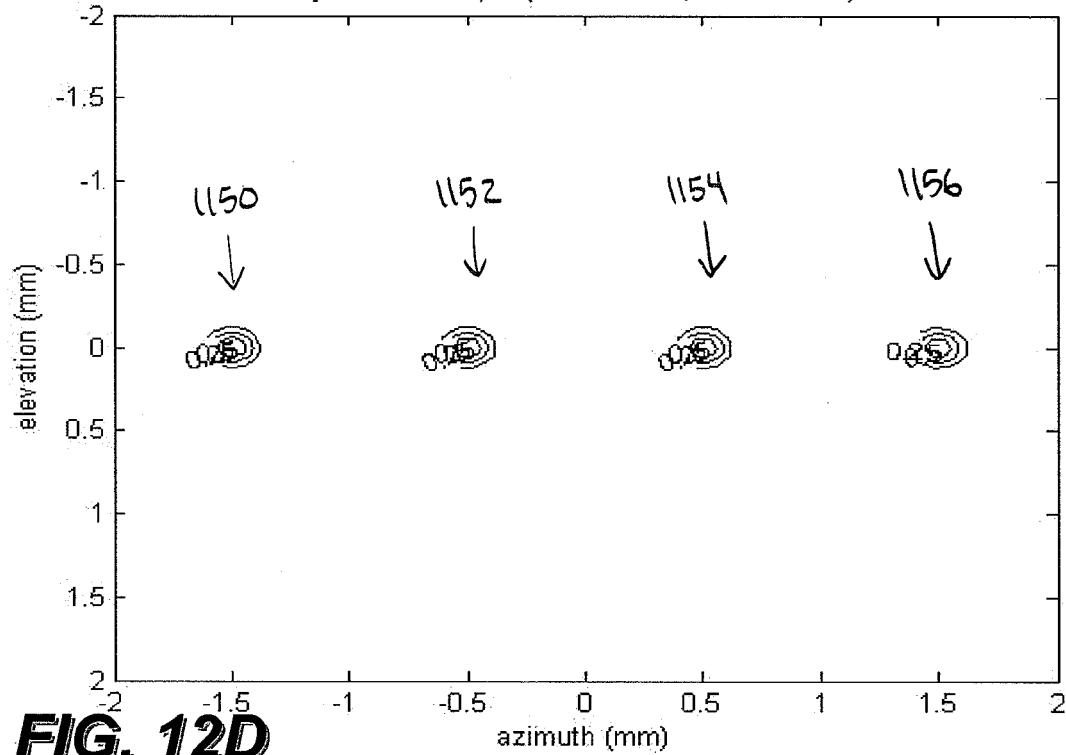
**FIG. 12B**

18 / 41

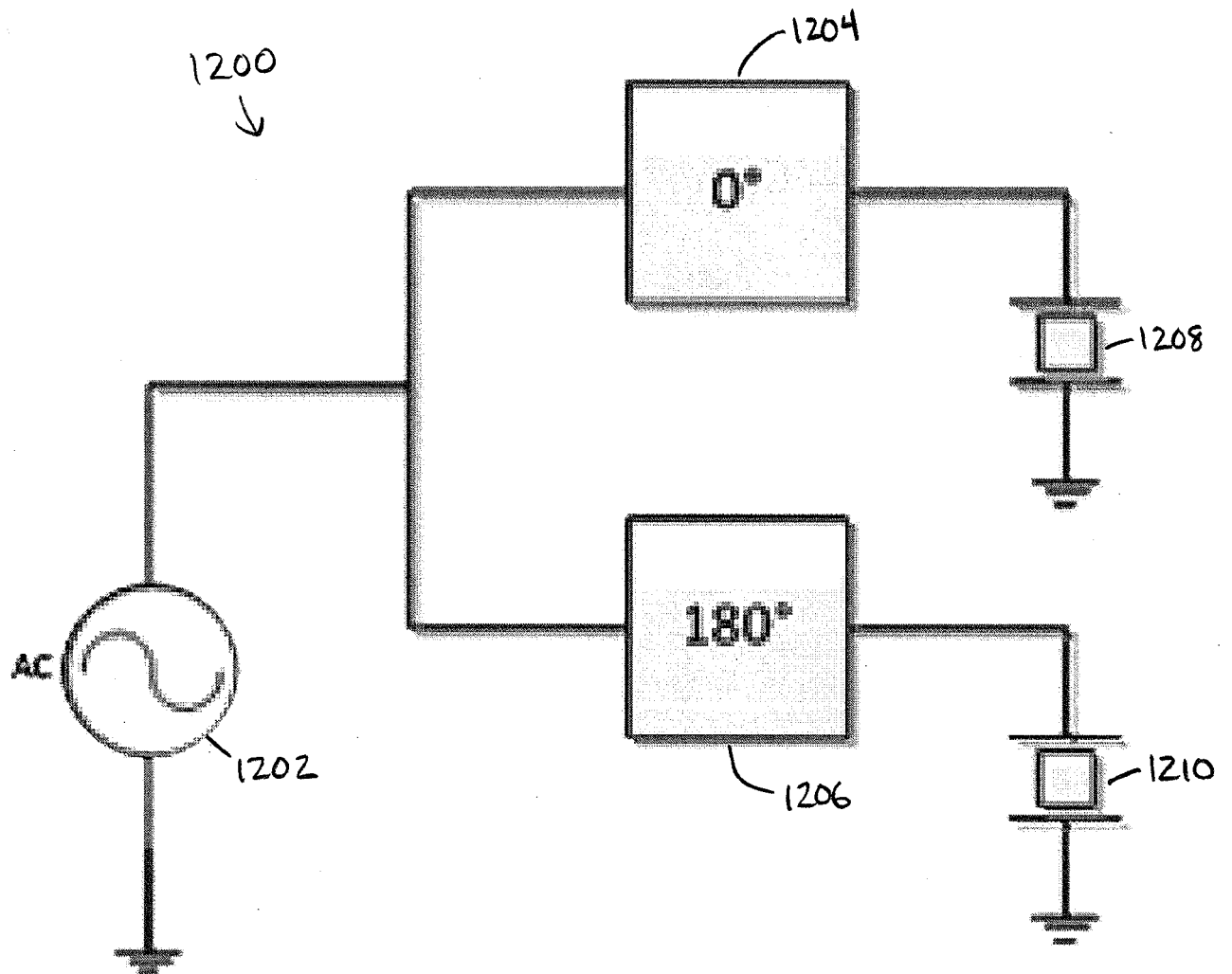
Modulation of Lateral Split (0.50 mm in x, 1.5 mm in x) 7 MHz Transducer

**FIG. 12C**

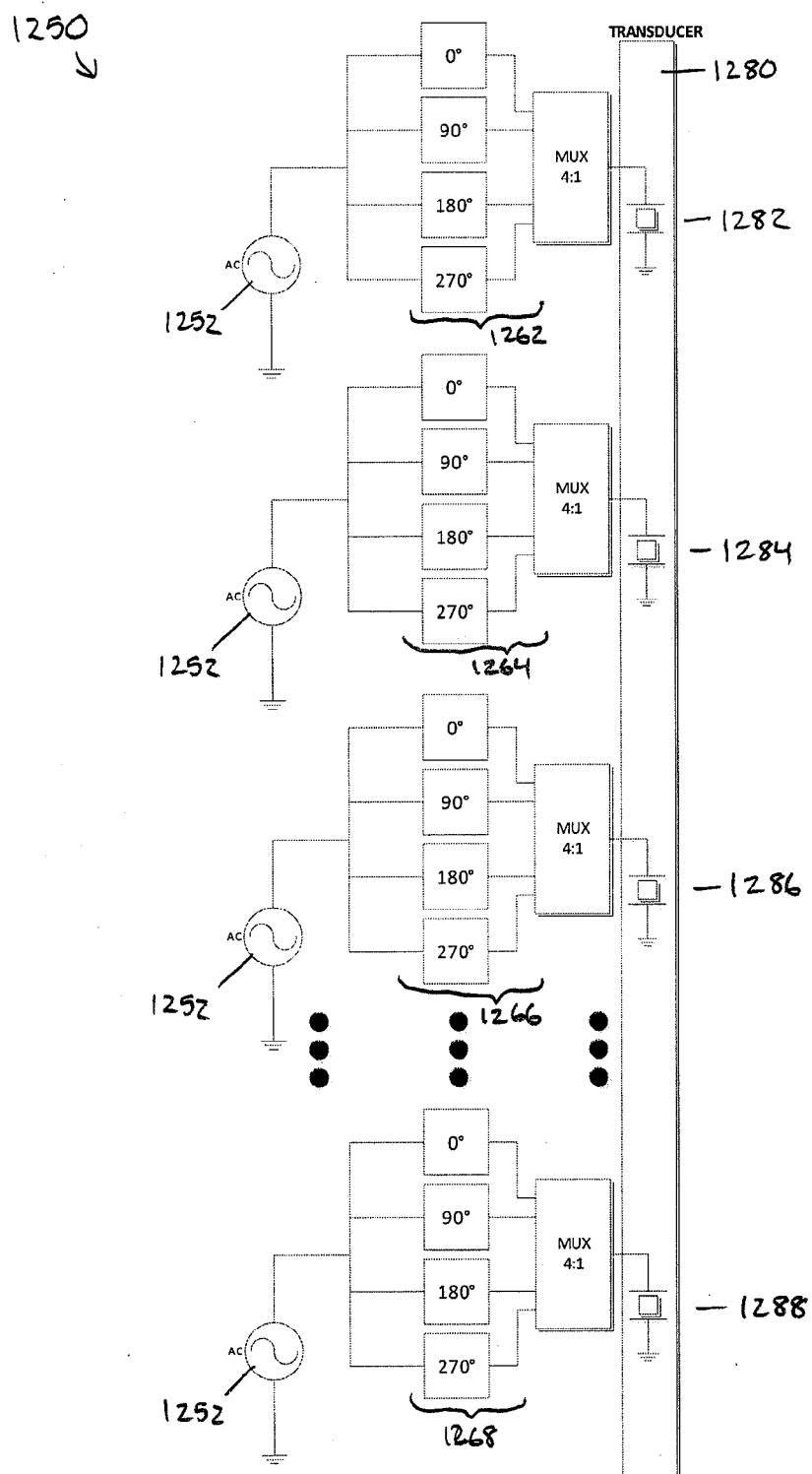
Normalized Intensity of Lateral Split (0.5 mm in x, 1.5 mm in x) 7 MHz Transducer

**FIG. 12D**

19 / 41

**FIG. 13**

20 / 41

**FIG. 14**

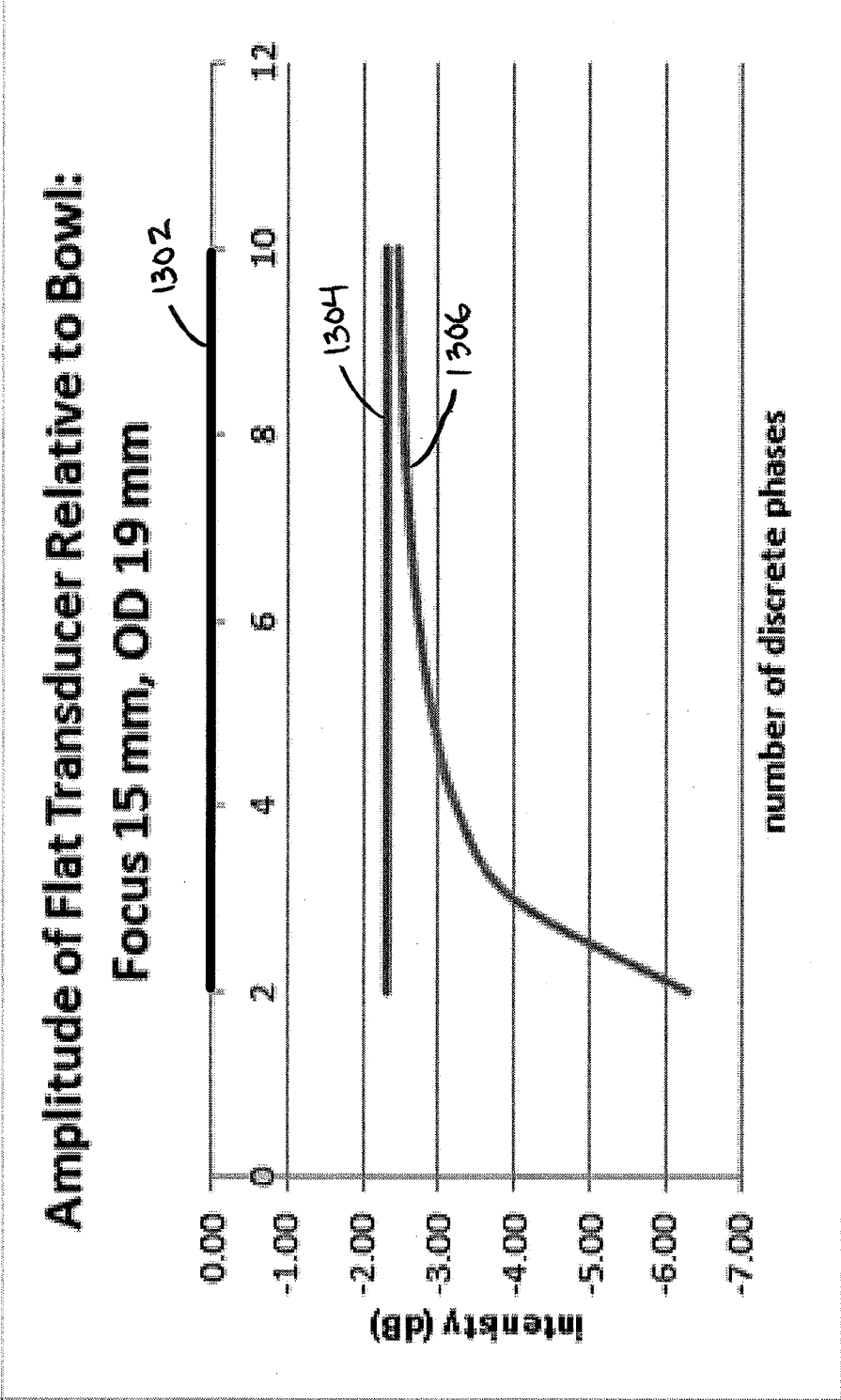
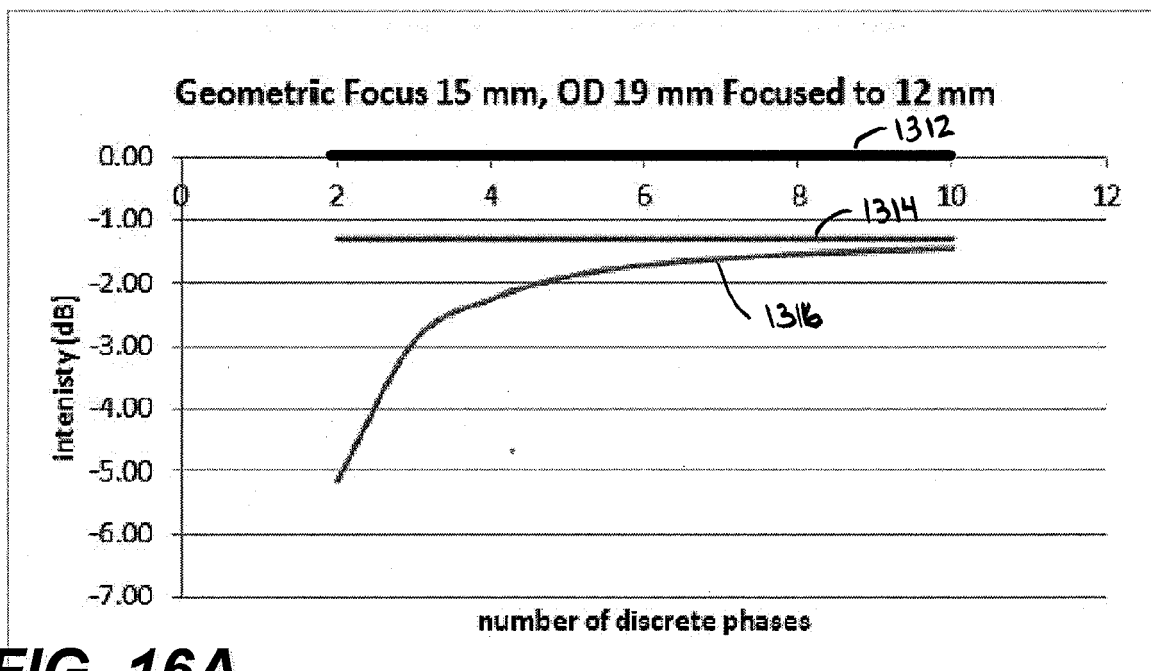
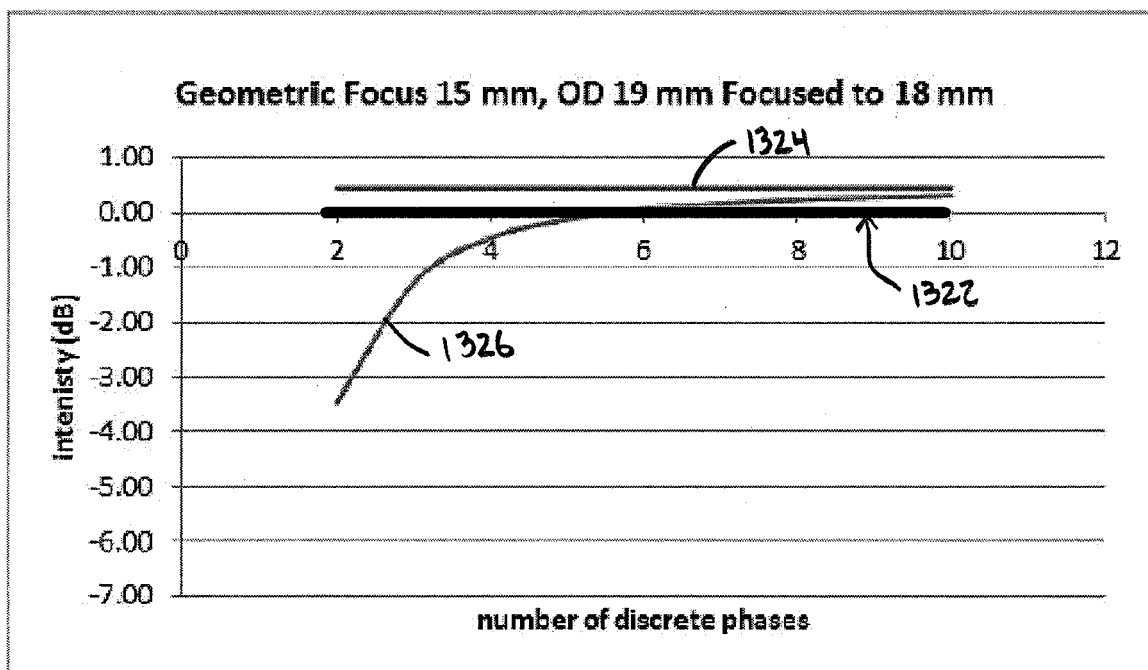


FIG. 15

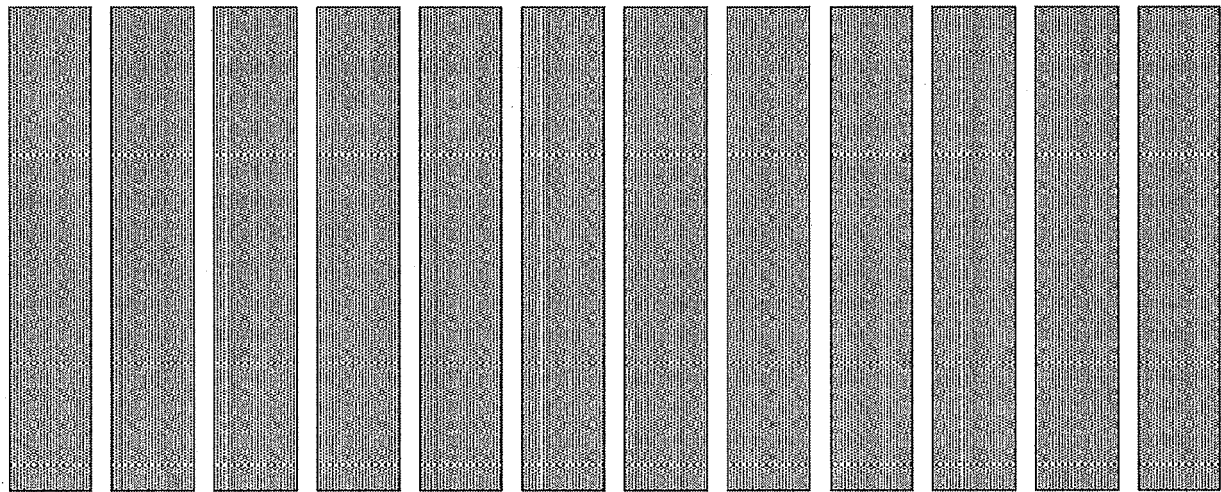
22 / 41

**FIG. 16A****FIG. 16B**

1400
↓

23 / 41

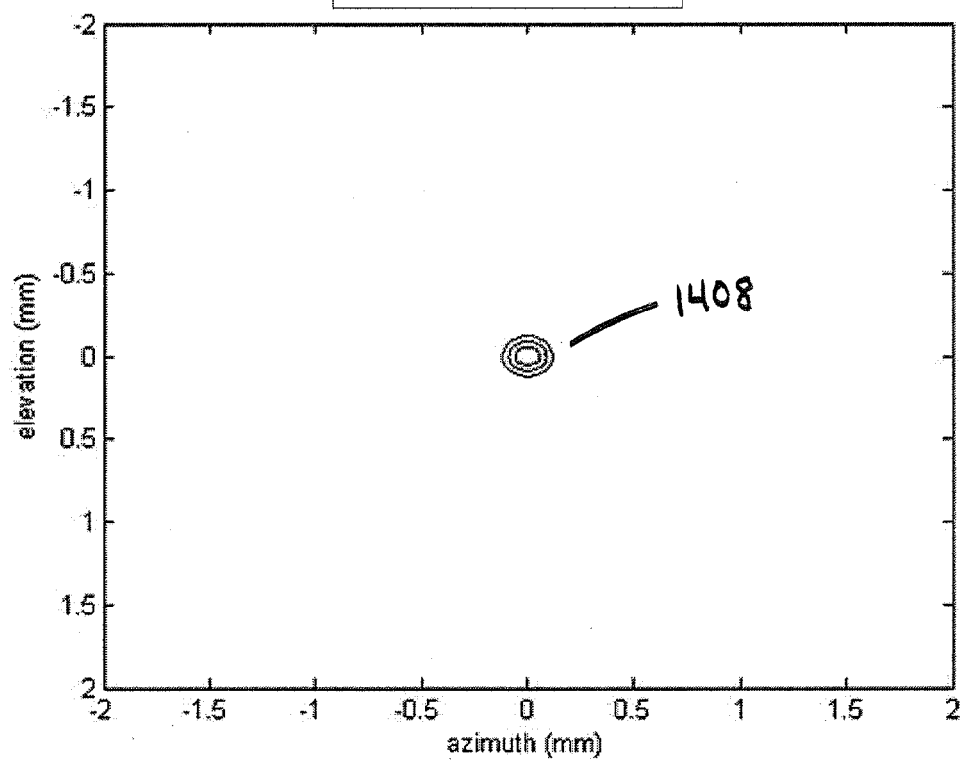
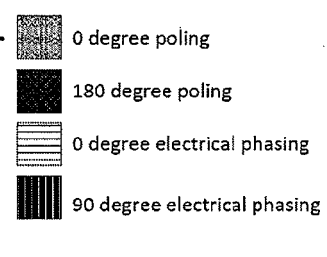
APERTURE WITH FOCUS STRAIGHT AHEAD



1402 1402 1402 ...

KEY

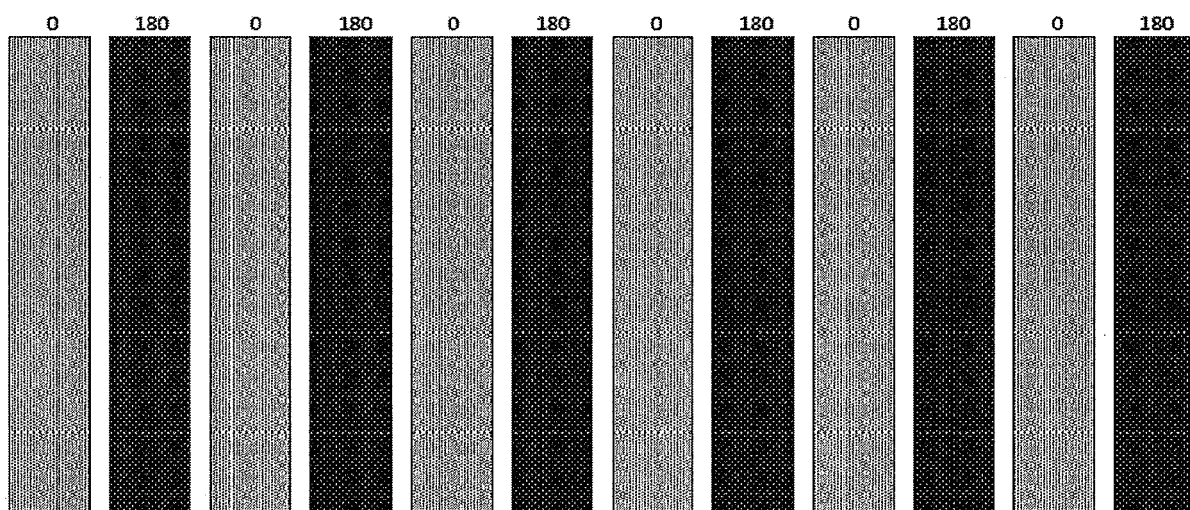
1402

**FIG. 17A**

1410
↘

24 / 41

APERTURE WITH SPLIT FOCUS



1412 1414 1412 1414 ...

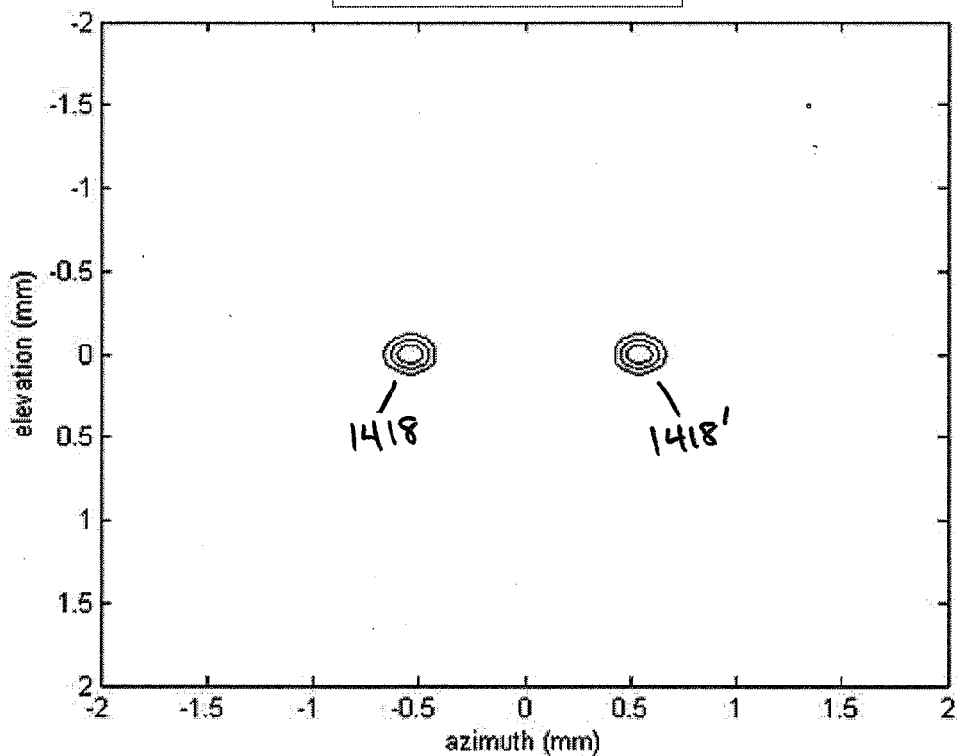
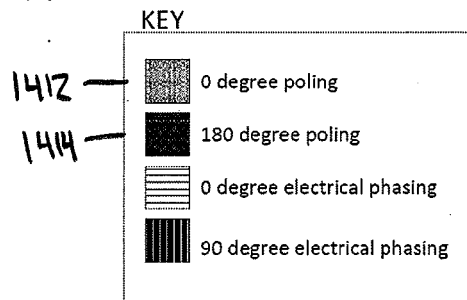


FIG. 17B

25 / 41

APERTURE POINTING FOCUS TO THE LEFT

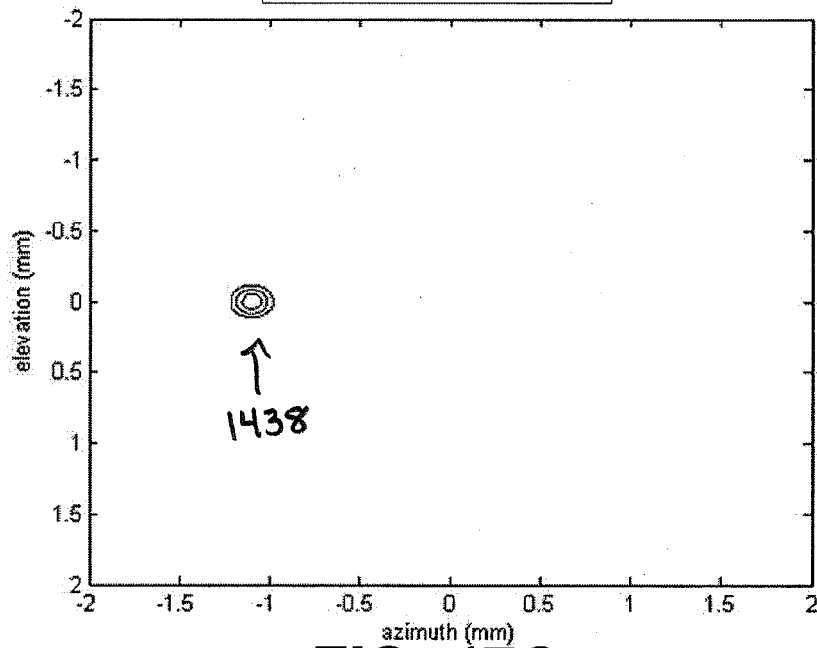
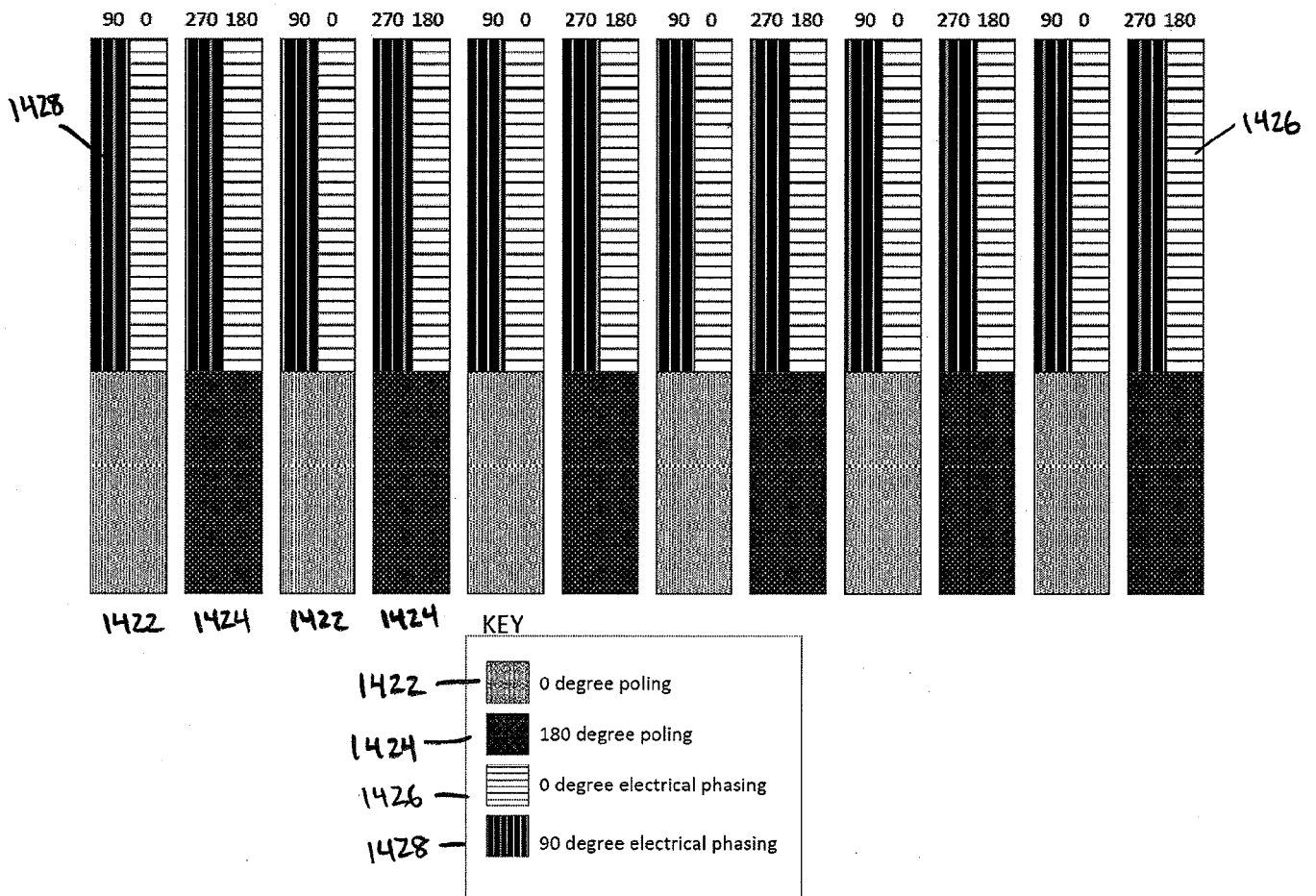


FIG. 17C

26 / 41

1440

✓

APERTURE POINTING FOCUS TO THE RIGHT

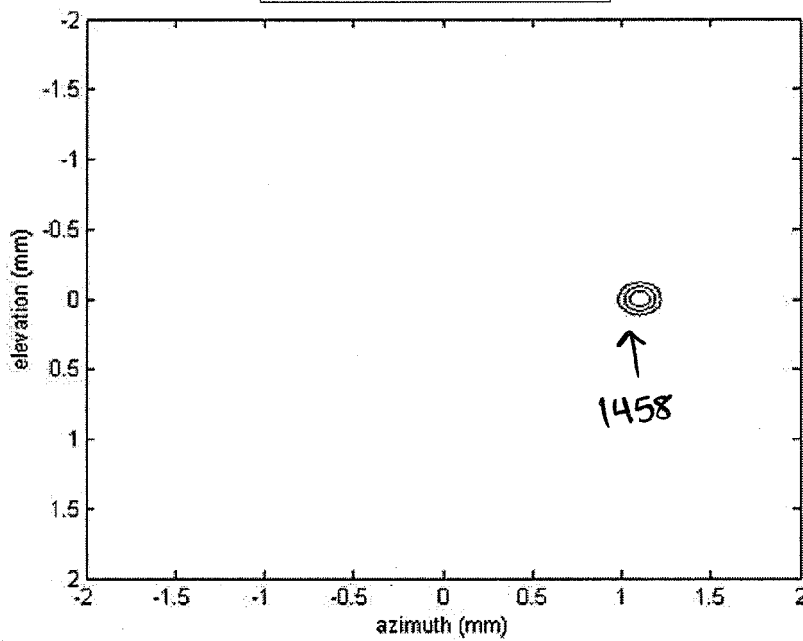
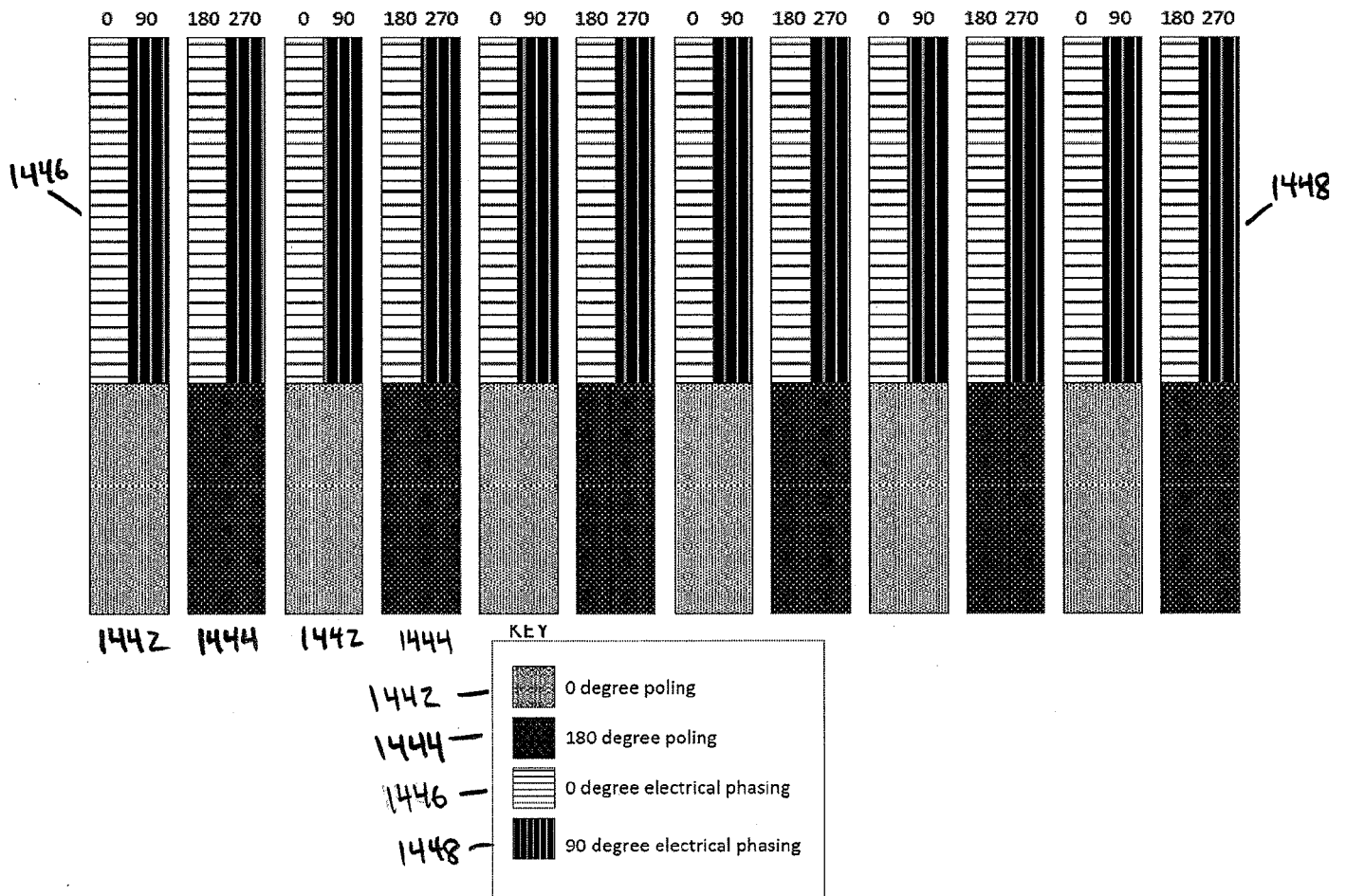
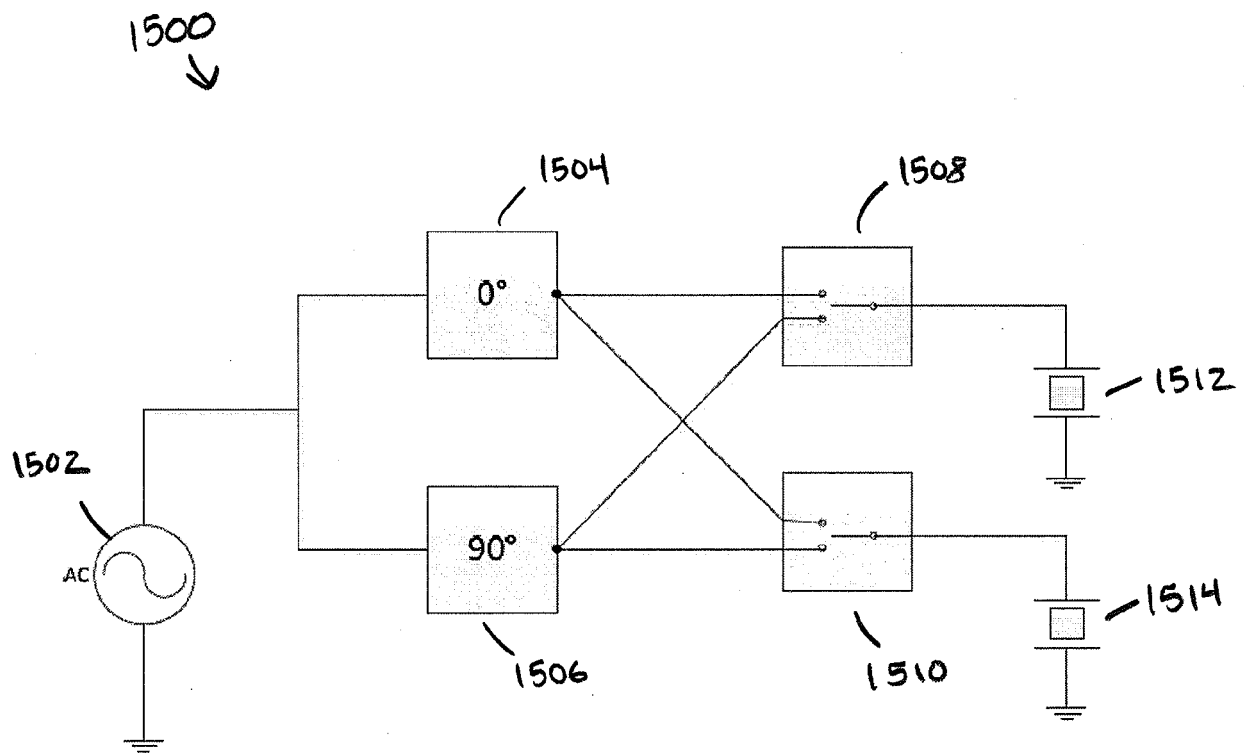
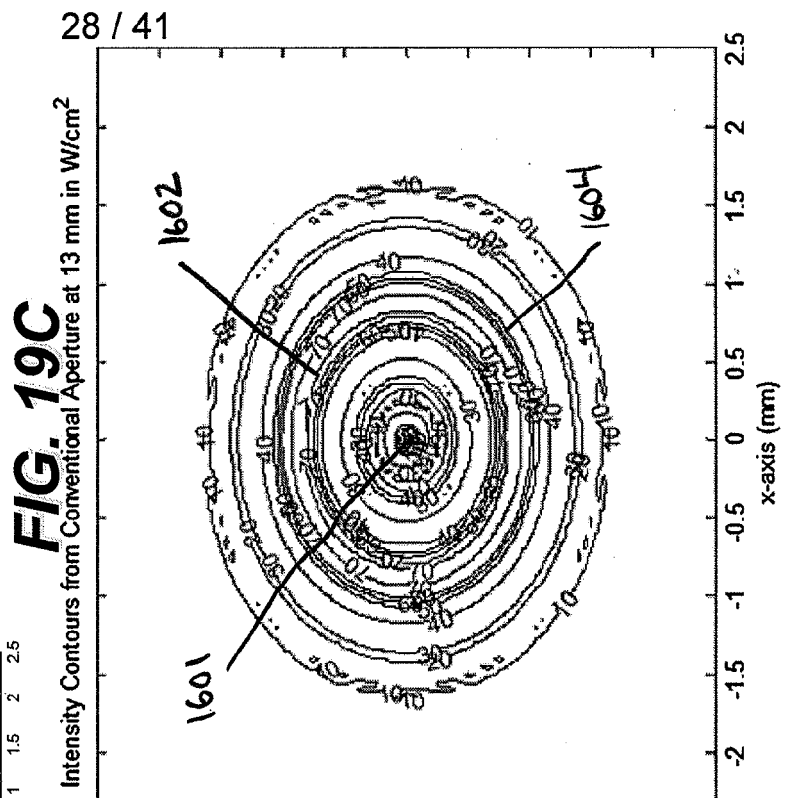
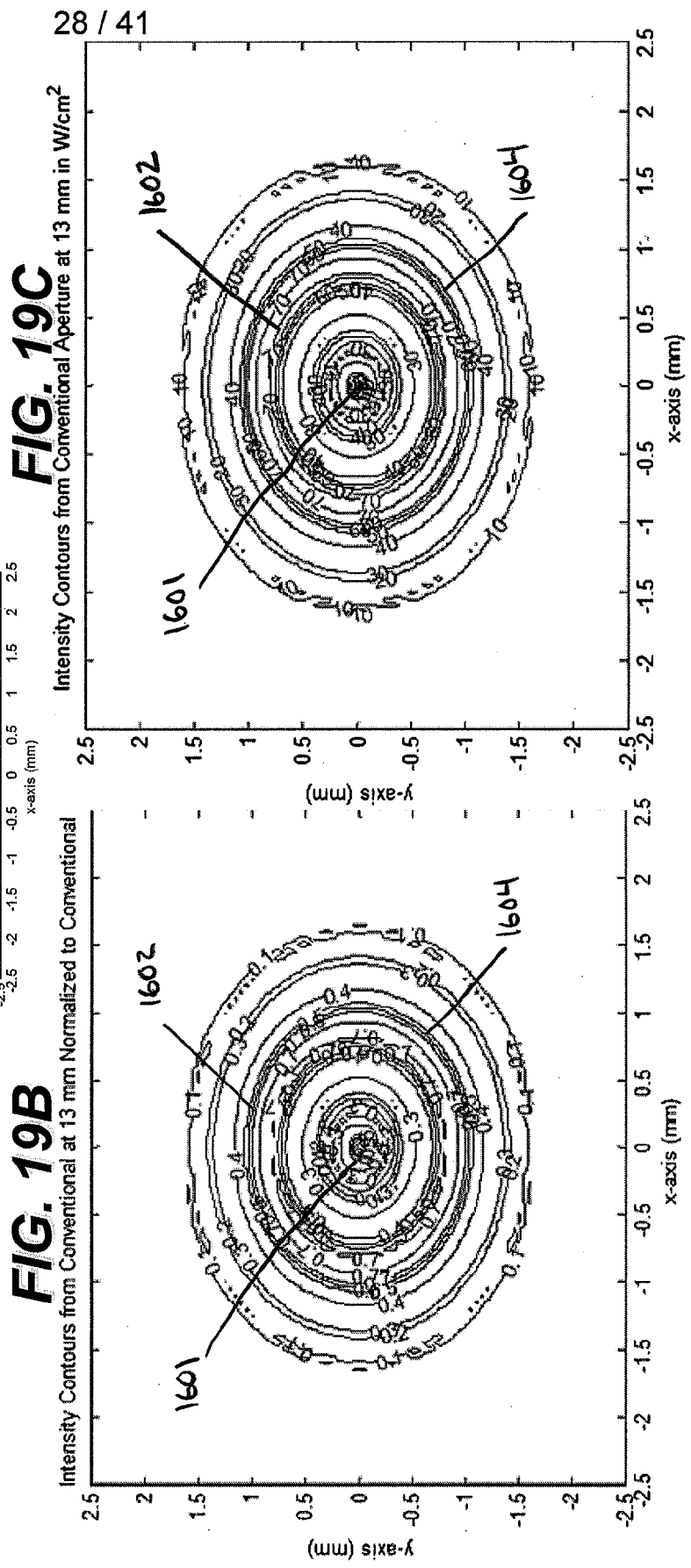
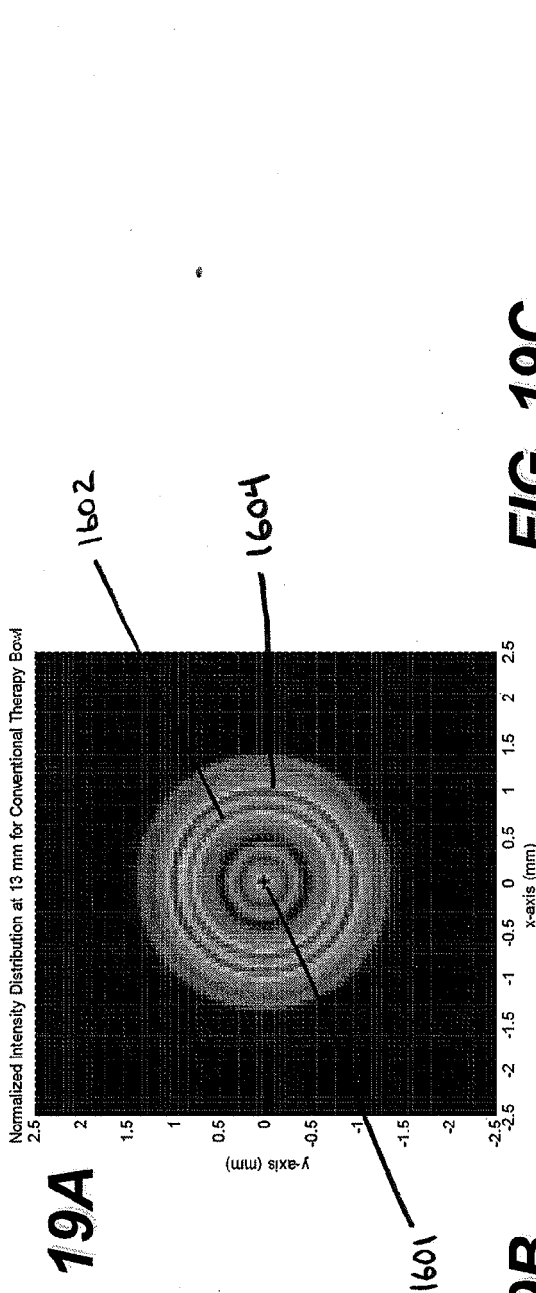
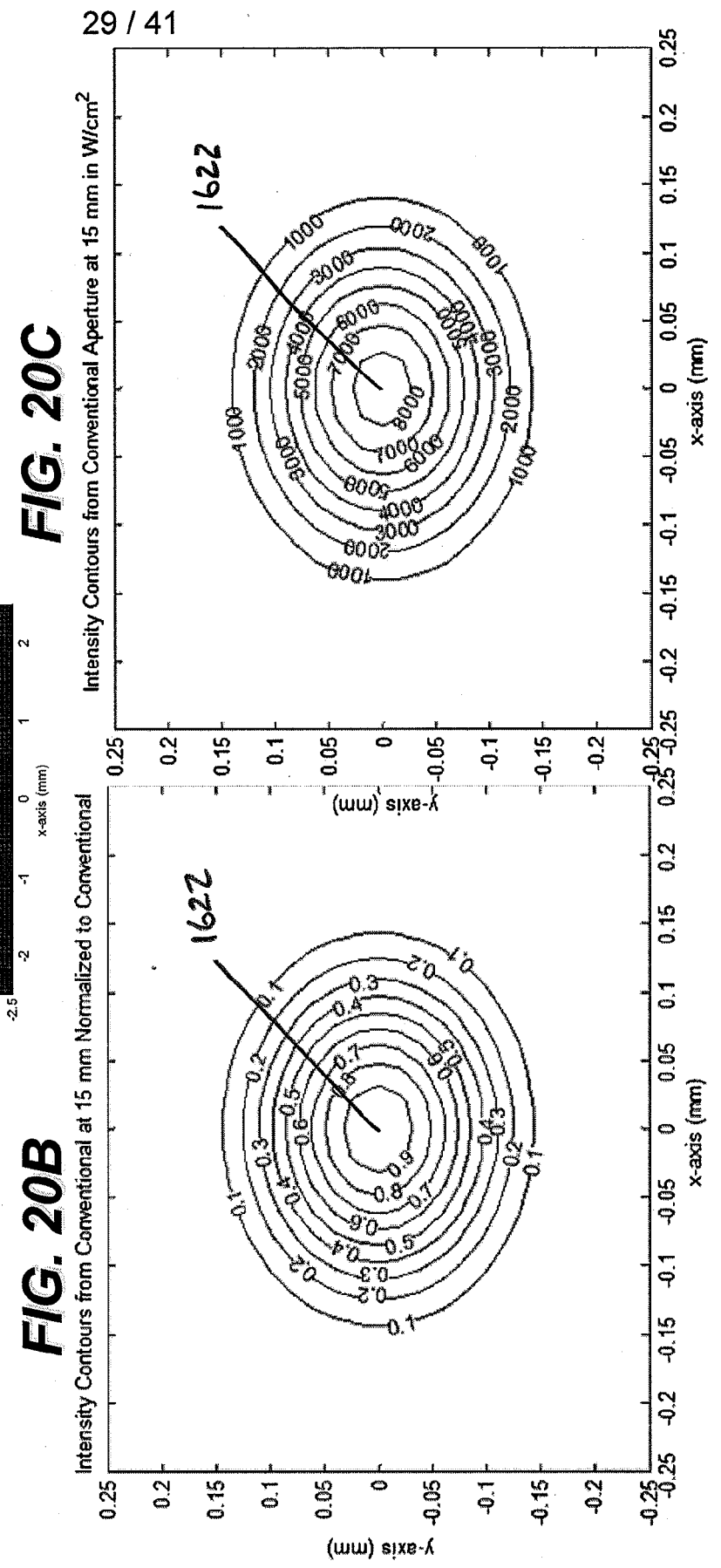
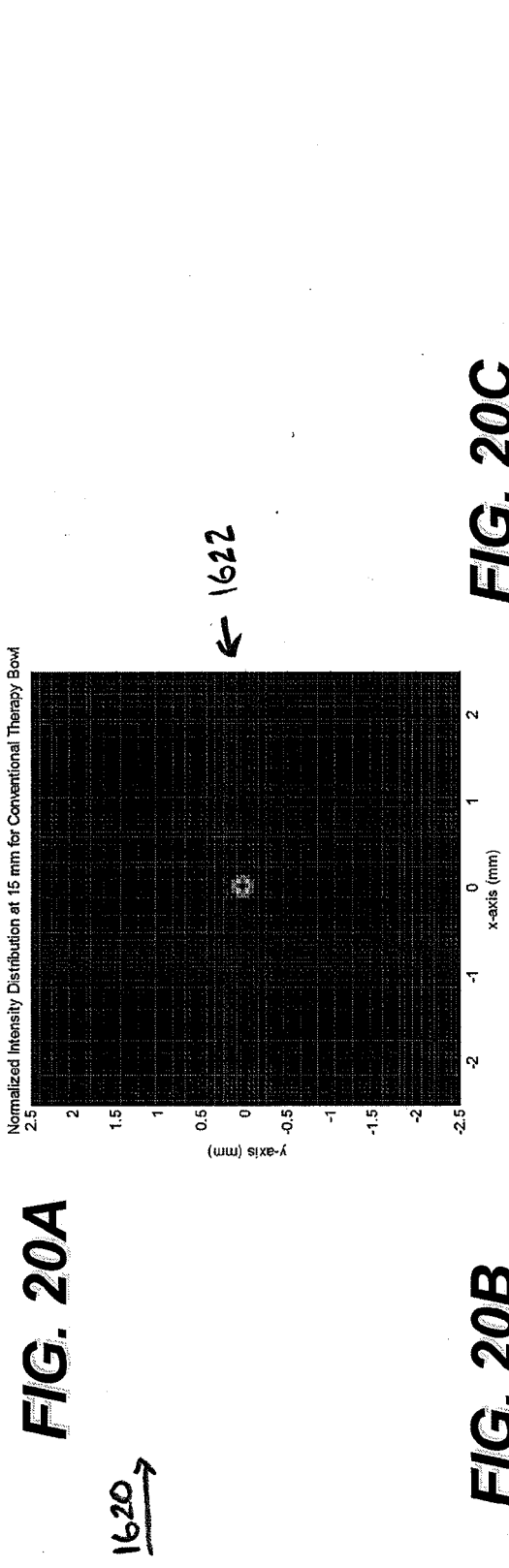


FIG. 17D

27 / 41

**FIG. 18**





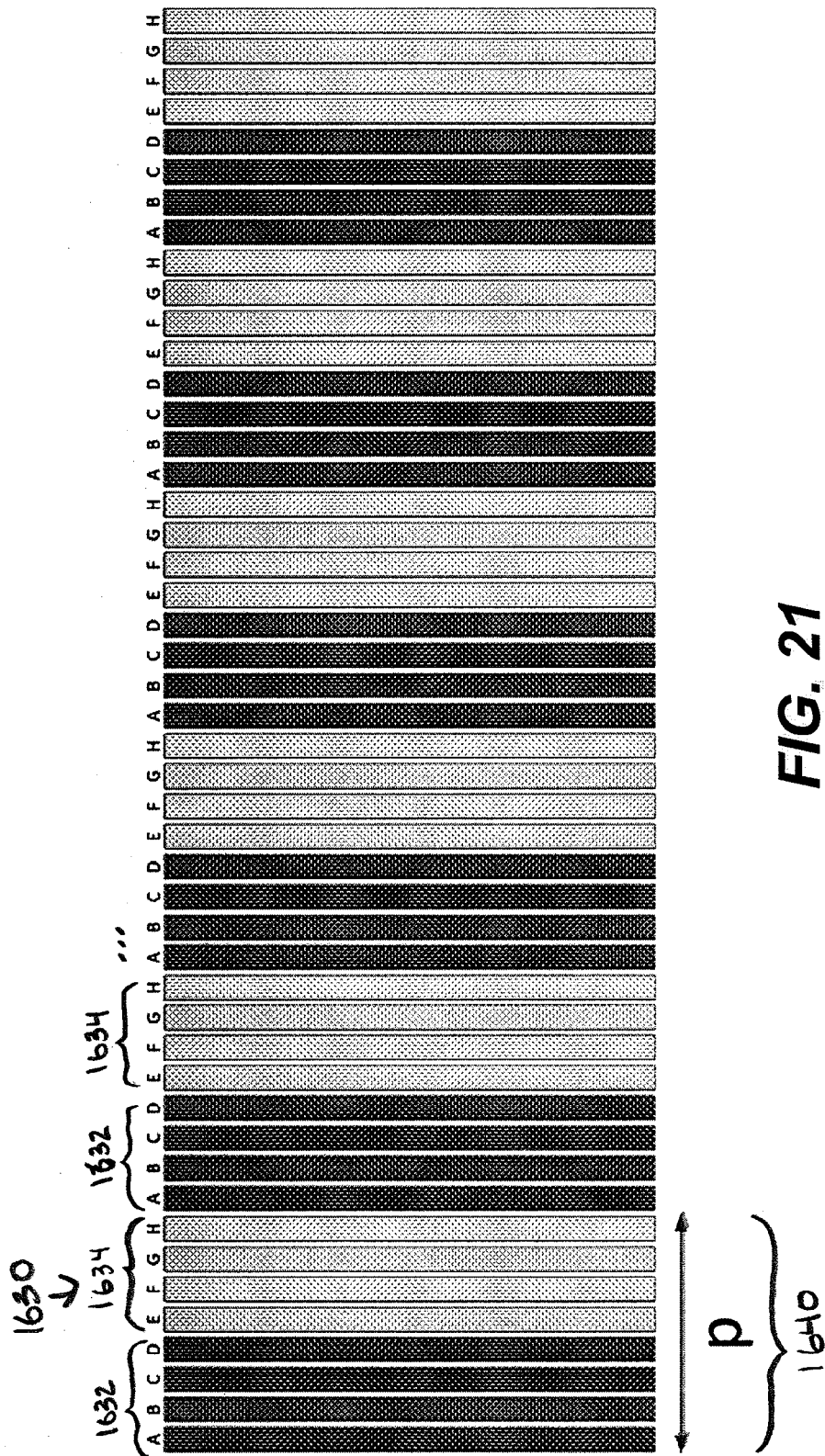


FIG. 21

FIG. 22A

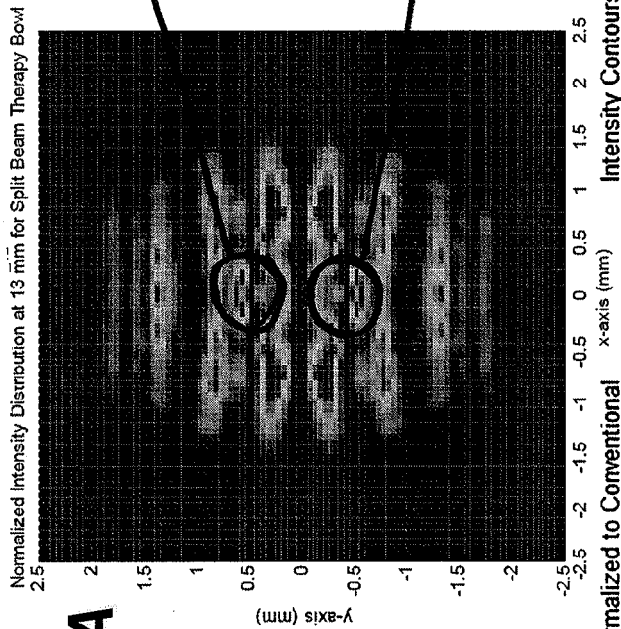


FIG. 22B

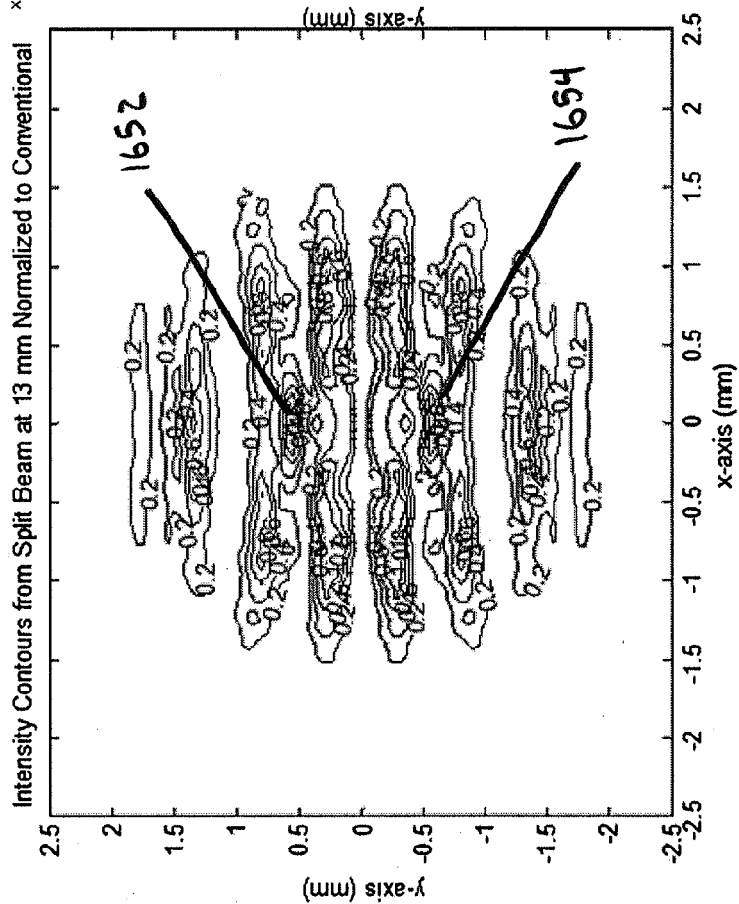
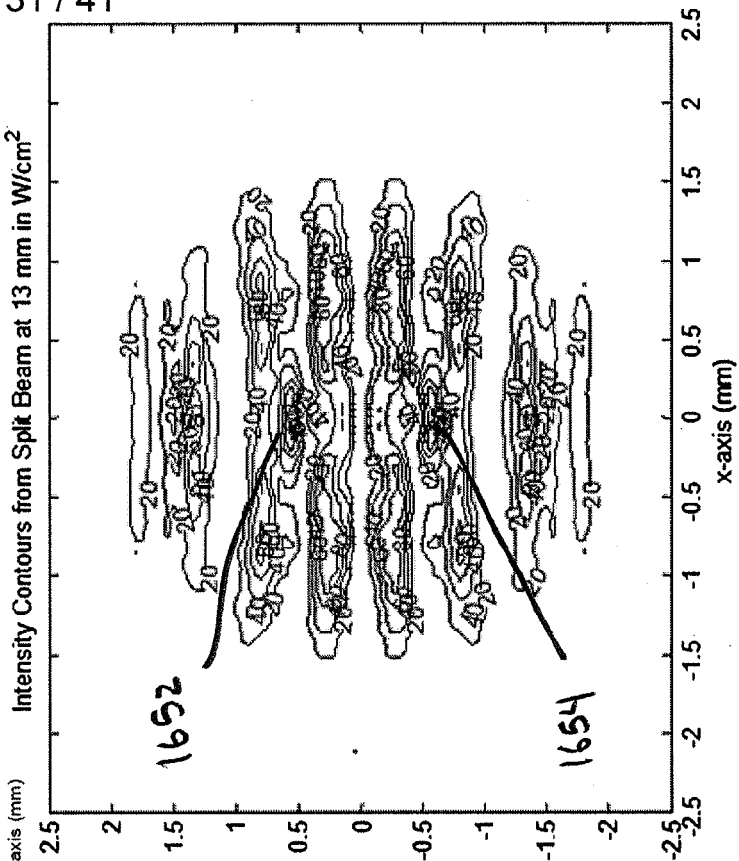


FIG. 22C



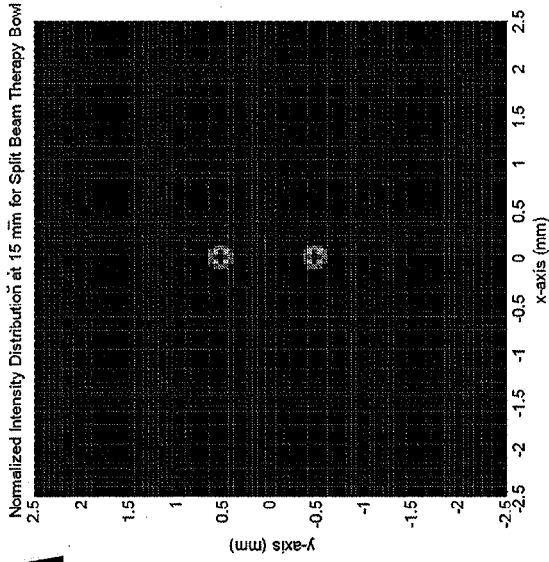


FIG. 23B

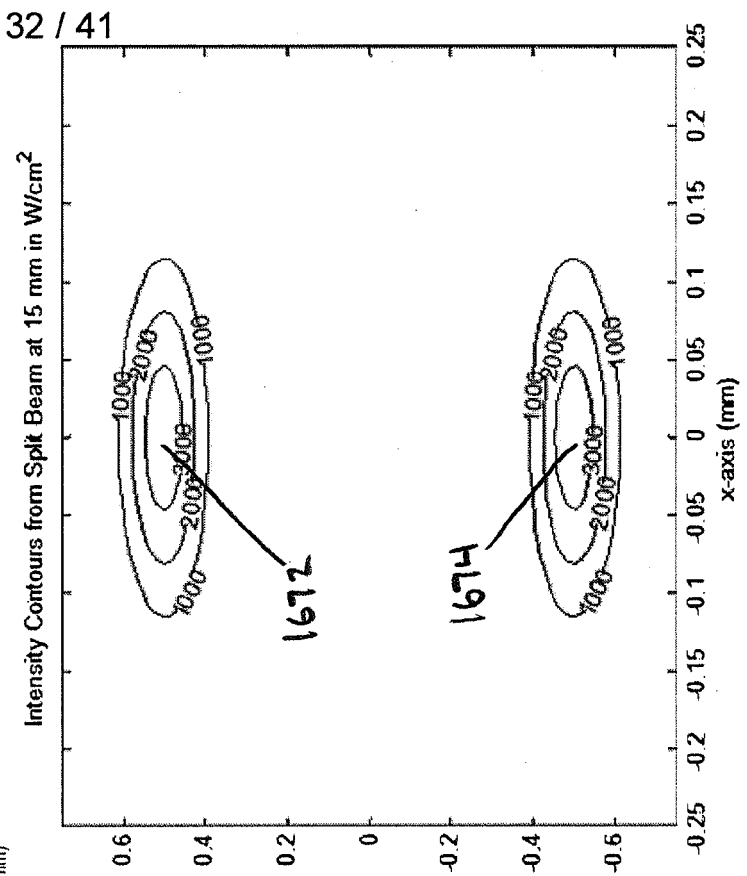
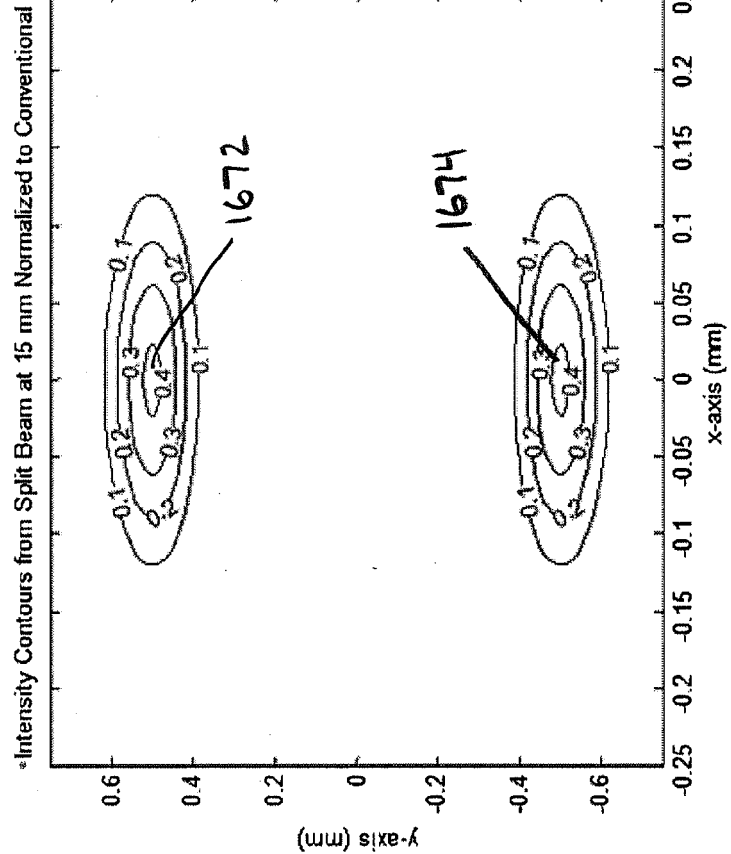


FIG. 25A

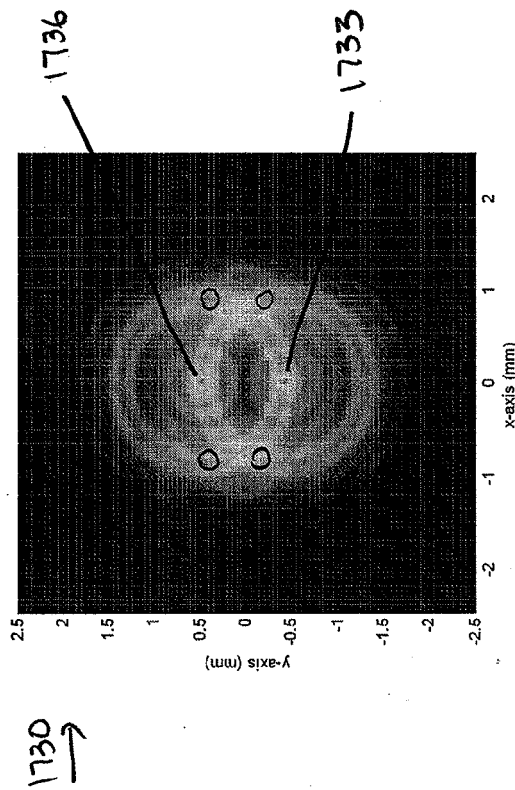


FIG. 25B

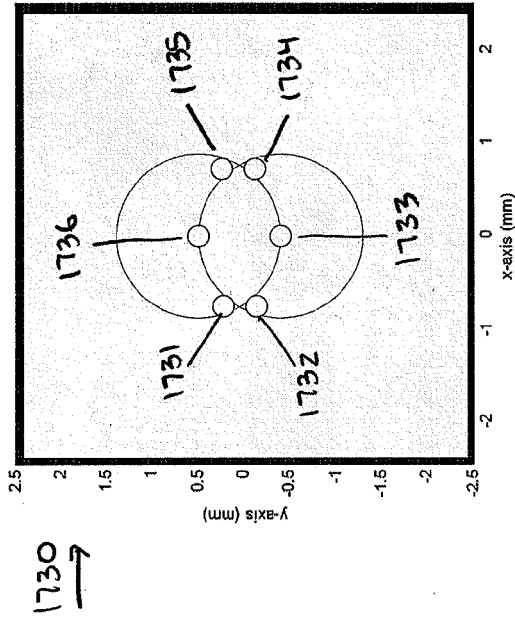


FIG. 25C

Intensity Contours from Amplitude Modulated Walking Aperture at 13 mm
Normalized to Conventional

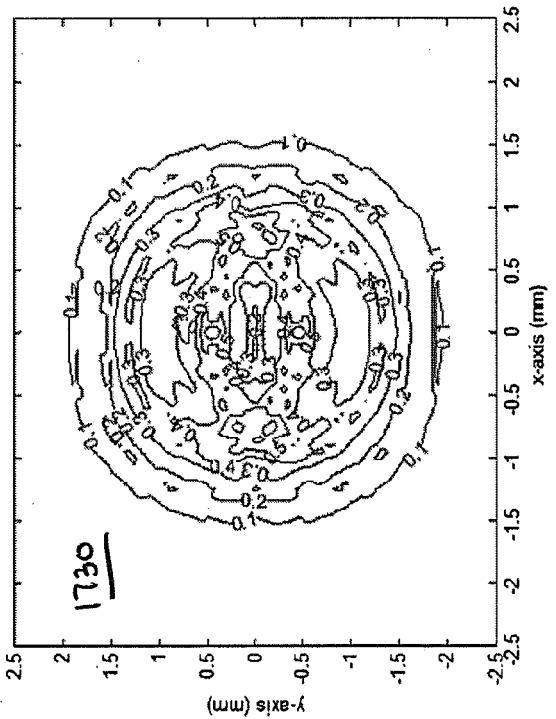


FIG. 25D

Intensity Contours from Amplitude Modulated Walking Aperture at 13 mm in W/cm^2

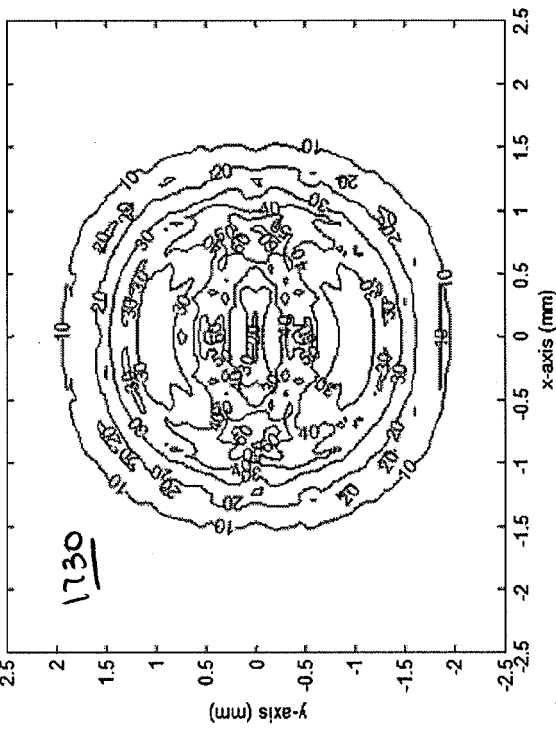


FIG. 26A

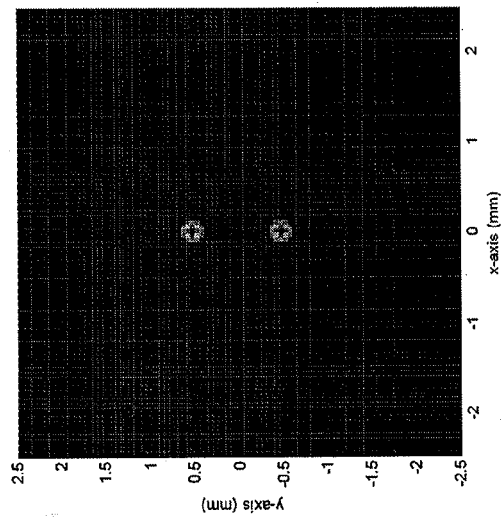


FIG. 26B

Intensity Contours from Amplitude Modulated Walking Aperture at 15 mm
Normalized to Conventional

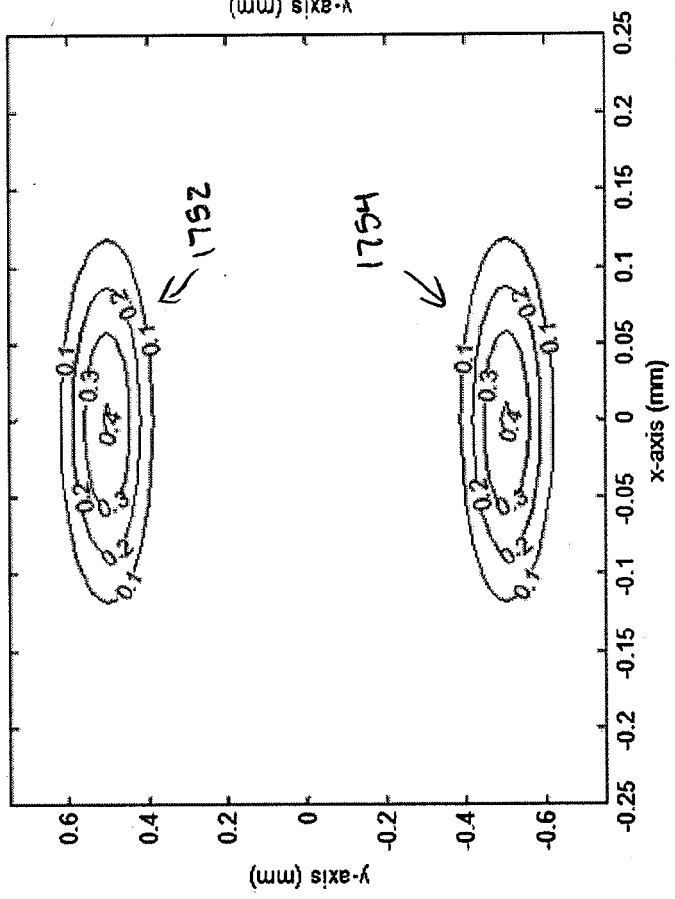
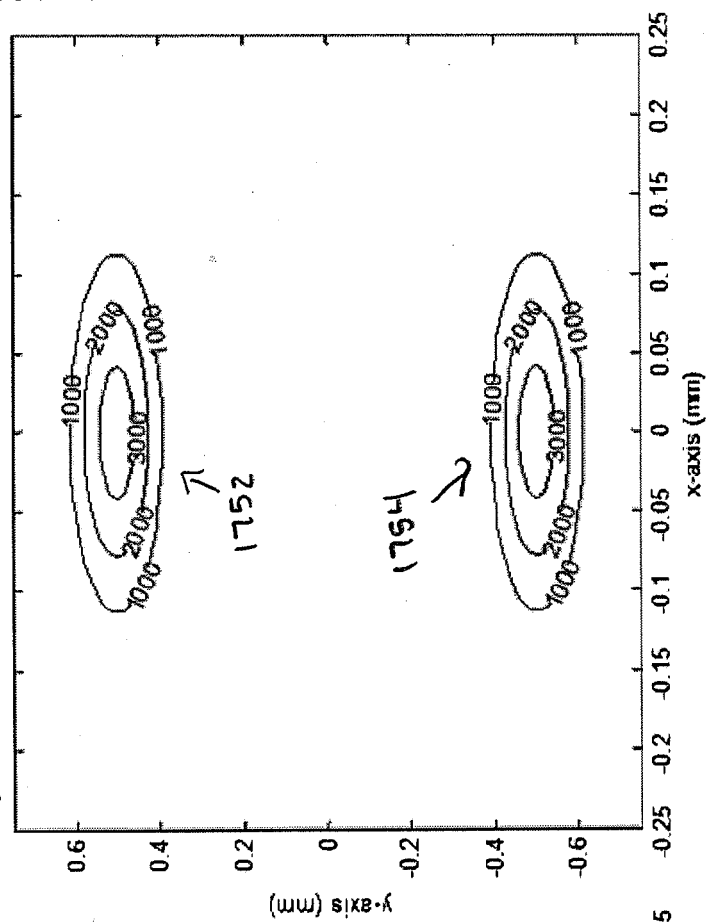
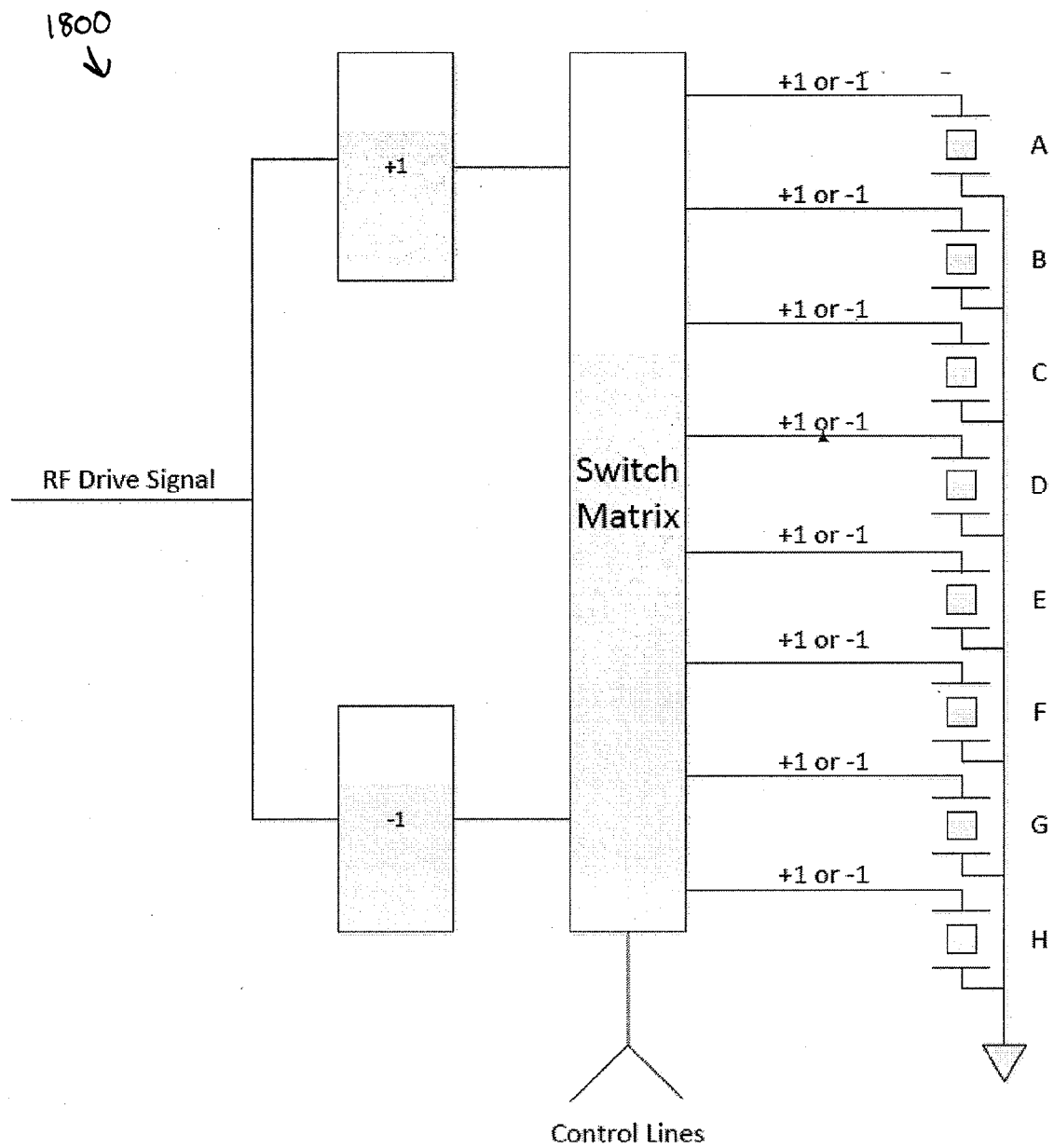


FIG. 26C

Intensity Contours from Amplitude Modulated Walking Aperture at 15 mm in W/cm^2



36 / 41

**FIG. 27A**

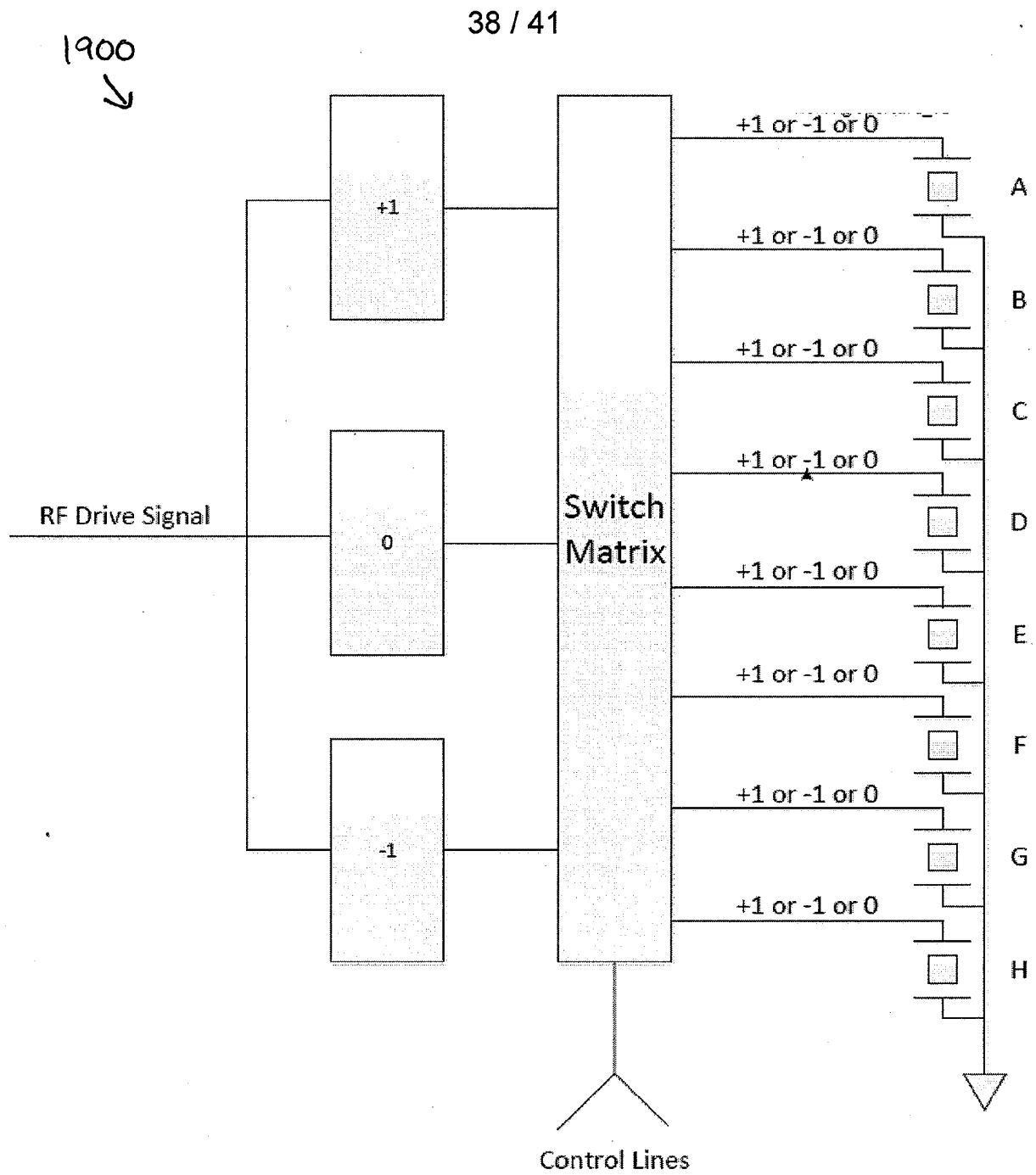
37 / 41

		APERTURE GROUP							
STATE	TIME	A	B	C	D	E	F	G	H
S1	T1	+1	+1	+1	+1	-1	-1	-1	-1
S2	T2	-1	+1	+1	+1	+1	-1	-1	-1
S3	T3	-1	-1	+1	+1	+1	+1	-1	-1
S4	T4	-1	-1	-1	+1	+1	+1	+1	-1
S5	T5	-1	-1	-1	-1	+1	+1	+1	+1
S6	T6	+1	-1	-1	-1	-1	+1	+1	+1
S7	T7	+1	+1	-1	-1	-1	-1	+1	+1
S8	T8	+1	+1	+1	-1	-1	-1	-1	+1
S1	T9	+1	+1	+1	+1	-1	-1	-1	-1
S2	T10	-1	+1	+1	+1	+1	-1	-1	-1
S3	T11	-1	-1	+1	+1	+1	+1	-1	-1
S4	T12	-1	-1	-1	+1	+1	+1	+1	-1
S5	T13	-1	-1	-1	-1	+1	+1	+1	+1
S6	T14	+1	-1	-1	-1	-1	+1	+1	+1
S7	T15	+1	+1	-1	-1	-1	-1	+1	+1
S8	T16	+1	+1	+1	-1	-1	-1	-1	+1
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
S _n	T _n	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

FIG. 27B

1850



**FIG. 28A**

APERTURE GROUP										
STATE	TIME	A	B	C	D	E	F	G	H	
S1	T1	+1	0	-1	0	+1	0	-1	0	
S2	T2	0	+1	0	-1	0	+1	0	-1	
S3	T3	-1	0	+1	0	-1	0	+1	0	
S4	T4	0	-1	0	+1	0	-1	0	+1	
S1	T5	+1	0	-1	0	+1	0	-1	0	
S2	T6	0	+1	0	-1	0	+1	0	-1	
S3	T7	-1	0	+1	0	-1	0	+1	0	
S4	T8	0	-1	0	+1	0	-1	0	+1	
S1	T9	+1	0	-1	0	+1	0	-1	0	
S2	T10	0	+1	0	-1	0	+1	0	-1	
S3	T11	-1	0	+1	0	-1	0	+1	0	
S4	T12	0	-1	0	+1	0	-1	0	+1	
S1	T13	+1	0	-1	0	+1	0	-1	0	
S2	T14	0	+1	0	-1	0	+1	0	-1	
S3	T15	-1	0	+1	0	-1	0	+1	0	
S4	T16	0	-1	0	+1	0	-1	0	+1	
.	.	.	.	.	.	.	.	.	.	
.	.	.	.	.	.	.	.	.	.	
.	.	.	.	.	.	.	.	.	.	
Sn	In	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

FIG. 28B

STATE	TIME	APERTURE GROUP							
		A	B	C	D	E	F	G	H
S1	T1	+0.5	+1	+1	+0.5	-0.5	-1	-1	-0.5
S2	T2	-0.5	+0.5	+1	+1	+0.5	-0.5	-1	-1
S3	T3	-1	-0.5	+0.5	+1	+1	+0.5	-0.5	-1
S4	T4	-1	-1	-0.5	+0.5	+1	+1	+0.5	-0.5
S5	T5	-0.5	-1	-1	-0.5	+0.5	+1	+1	+0.5
S6	T6	+0.5	-0.5	-1	-1	-0.5	+0.5	+1	+1
S7	T7	+1	+0.5	-0.5	-1	-1	-0.5	+0.5	+1
S8	T8	+1	+1	+0.5	-0.5	-1	-1	-0.5	+0.5
S1	T9	+0.5	+1	+1	+0.5	-0.5	-1	-1	-0.5
S2	T10	-0.5	+0.5	+1	+1	+0.5	-0.5	-1	-1
S3	T11	-1	-0.5	+0.5	+1	+1	+0.5	-0.5	-1
S4	T12	-1	-1	-0.5	+0.5	+1	+1	+0.5	-0.5
S5	T13	-0.5	-1	-1	-0.5	+0.5	+1	+1	+0.5
S6	T14	+0.5	-0.5	-1	-1	-0.5	+0.5	+1	+1
S7	T15	+1	+0.5	-0.5	-1	-1	-0.5	+0.5	+1
S8	T16	+1	+1	+0.5	-0.5	-1	-1	-0.5	+0.5
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
Sn	Tn	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

FIG. 29B