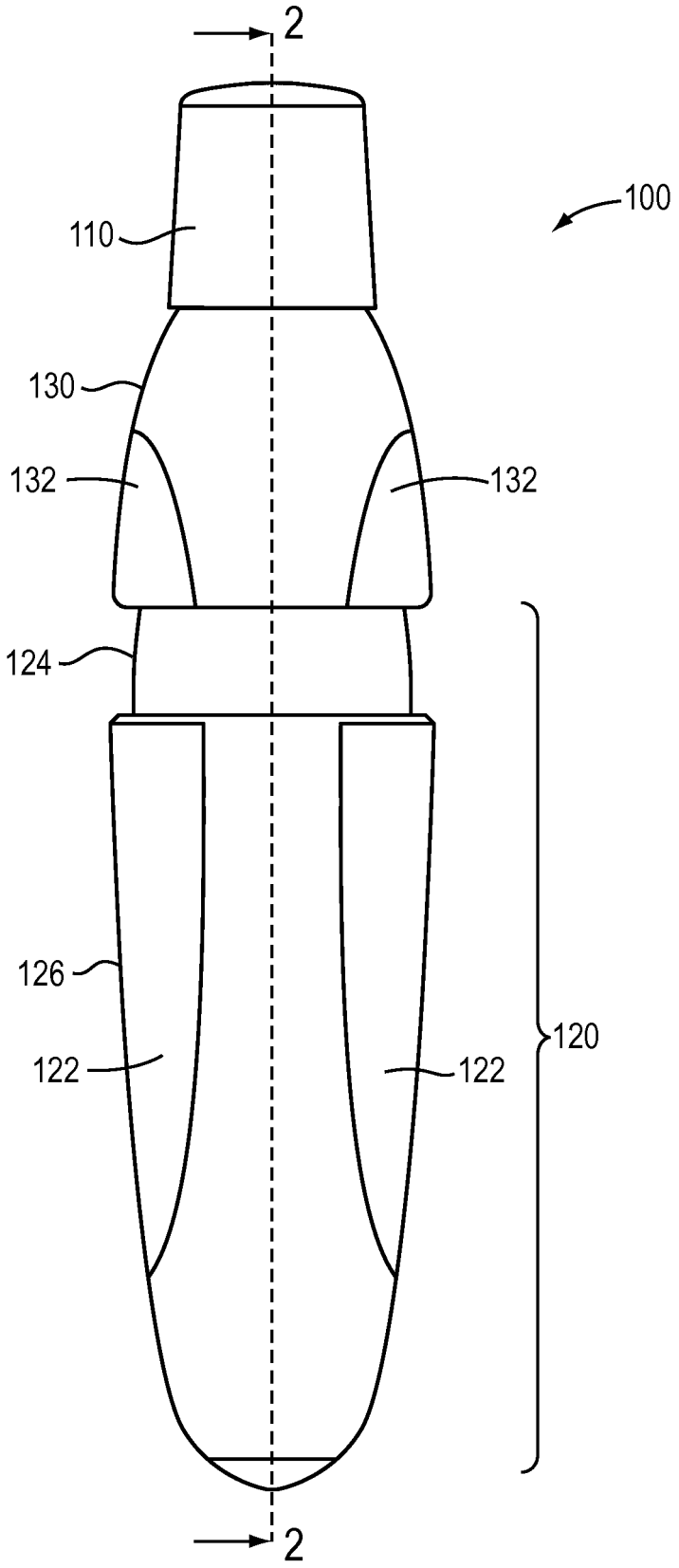


FIG. 1

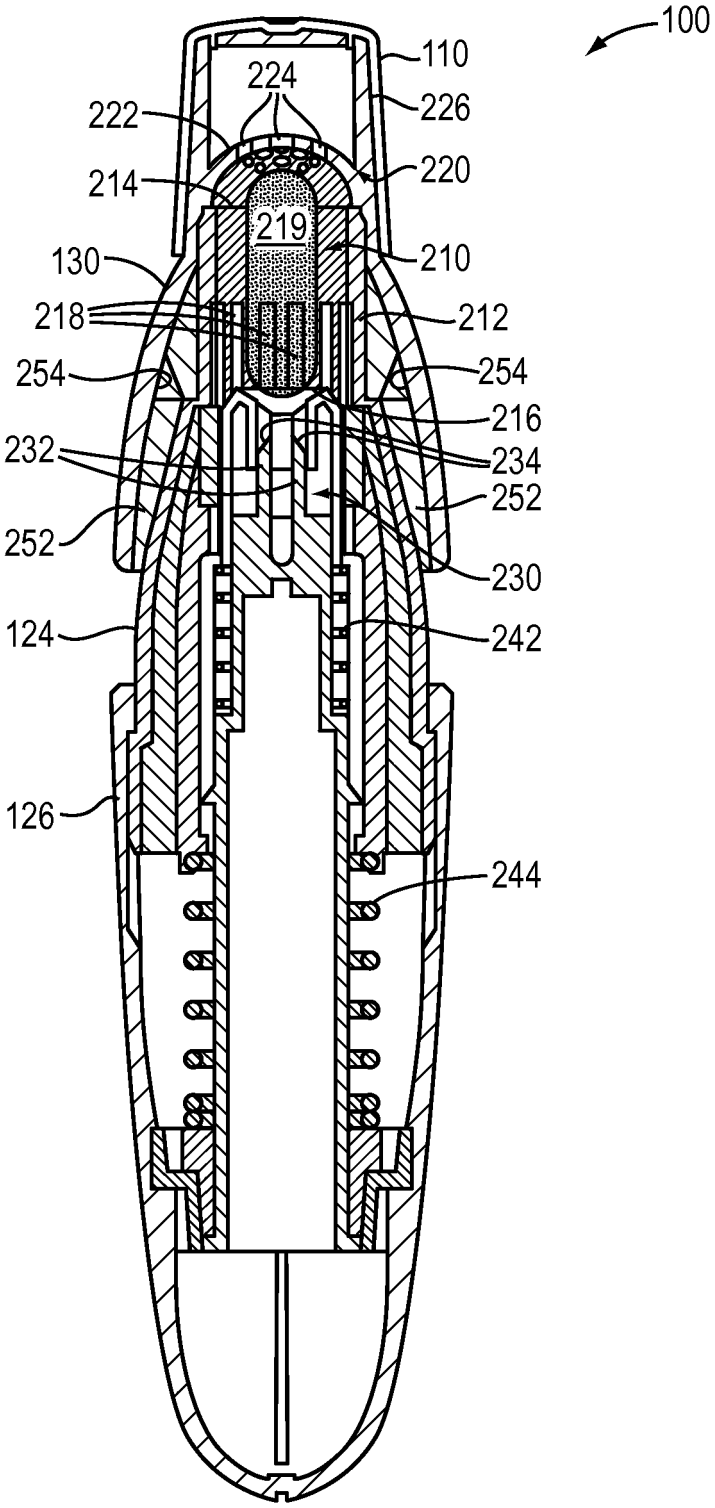

100
110
224
222
226
214
220
219
130
210
218
212
254
254
216
232
234
252
252
230
124
242
126
244

FIG. 2

300

CAPSULE SIZE	CAPSULE VOLUME (cm^3)	LOCKED LENGTH (mm)	EXTERNAL DIAMETER (mm)
5	0.13	11.1	4.91
4	0.21	14.3	5.31
3	0.30	15.9	5.82
2	0.37	18.0	6.35
1	0.50	19.4	6.91
0	0.68	21.7	7.65
0E	0.70	23.1	7.65
00	0.95	23.3	8.53
000	1.37	26.14	9.91
13	3.2	30.0	15.3
12	5.0	40.5	15.3
12el	7.5	57.0	15.5
11	10	47.5	20.9
10	18	64.0	23.4
7	24	78.0	23.4
Su07	28	88.5	23.4

FIG. 3

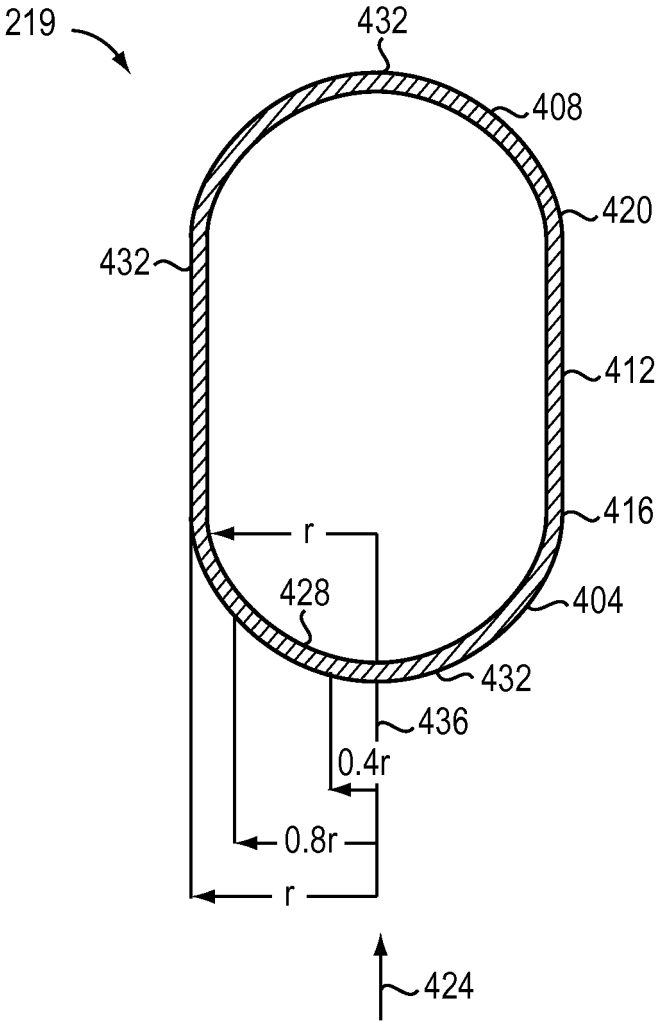


FIG. 4

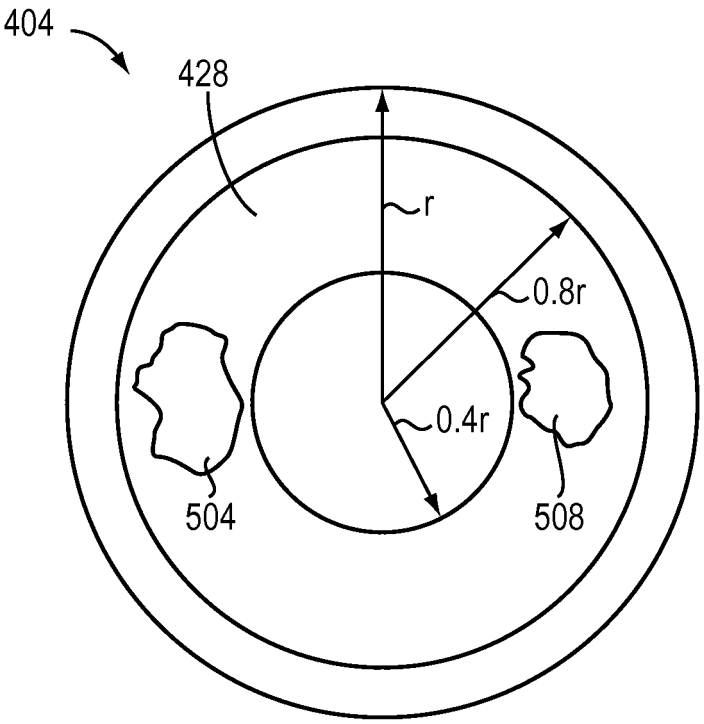


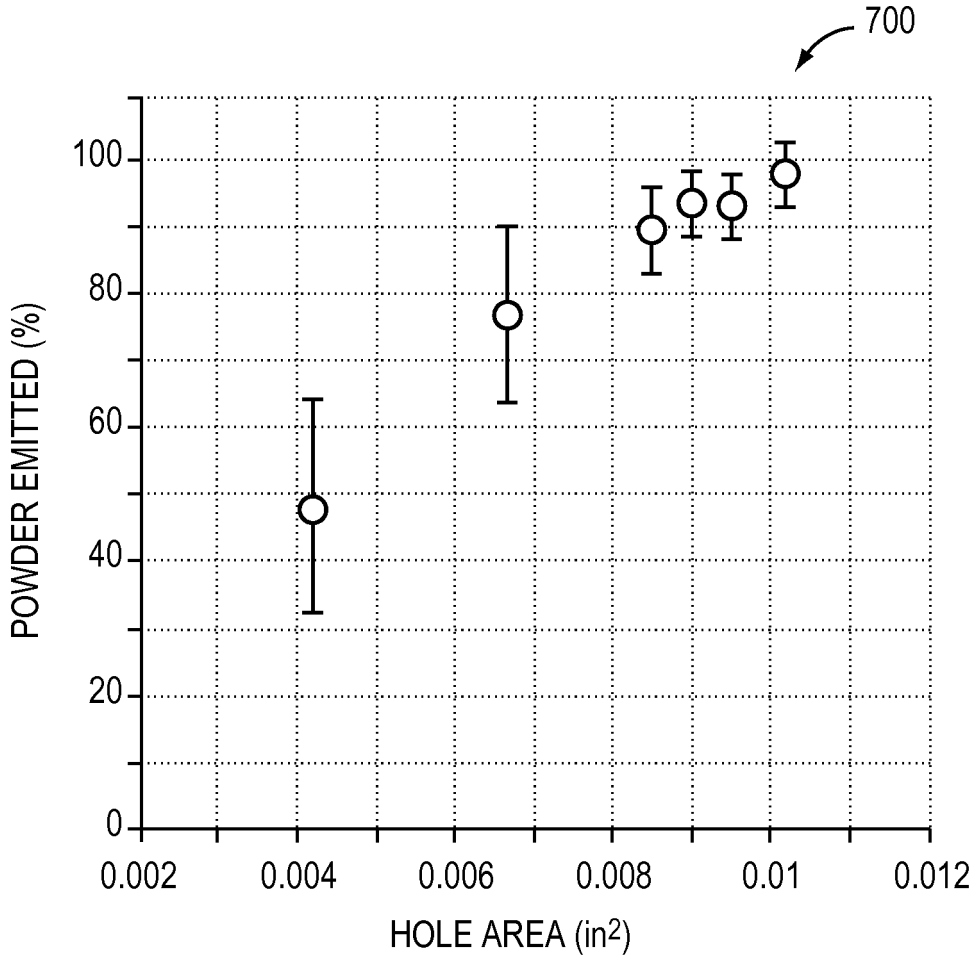
FIG. 5

600

RESULTS OF EMITTED POWDER TESTING

TOTAL COMBINED SURFACE AREA OF ALL PUNCTURE HOLES (in^2)	TOTAL COMBINED SURFACE AREA OF ALL PUNCTURE HOLES (cm^2)	PERCENT OF TOTAL CAPSULE SURFACE AREA	EMITTED POWDER (%)	
			MEAN	STANDARD DEVIATION
0.0102	0.065806	1.3	98	5.3
0.0095	0.061290	1.2	93	4.9
0.0090	0.058064	1.1	93	5.0
0.0085	0.054839	1.1	89	5.9
0.0067	0.043226	0.8	77	13.3
0.0042	0.027097	0.5	48	15.5

FIG. 6



TOTAL COMBINED SURFACE AREA OF ALL PUNCTURE HOLES
VERSUS PERCENT EMITTED POWDER
(WHISKERS REPRESENT 1 STANDARD DEVIATION)

FIG. 7

800

RESULTS OF FINITE ELEMENT ANALYSIS (FEA)
FOR CONSTANT LOADING FORCE APPLIED AT VARIOUS LOCATIONS

LOCATION OF PUNCTURE HOLE CENTER (% OF DOME RADIUS)	DEFLECTION UNDER LOAD (in)
38	0.146
44	0.103
51	0.0513
57	0.0375
64	0.0414
70	0.0486
76	0.0365
83	0.0408

FIG. 8

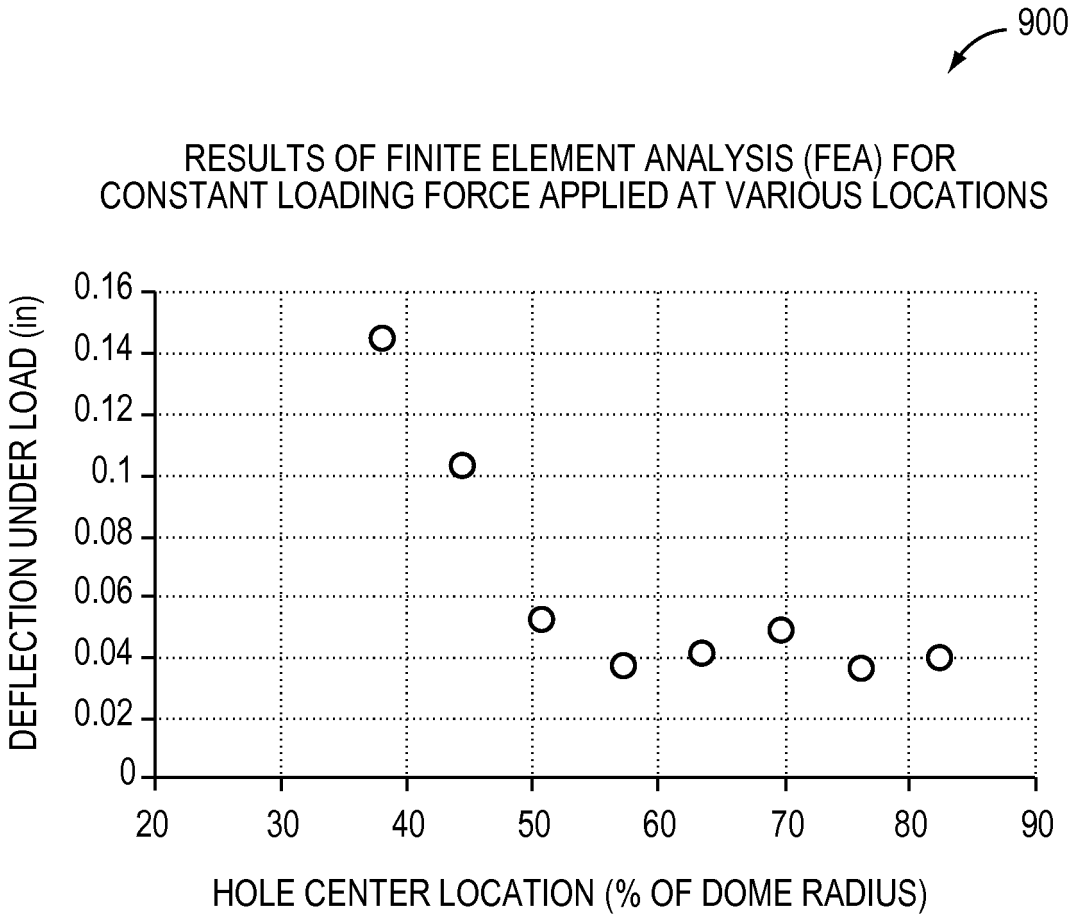

900
RESULTS OF FINITE ELEMENT ANALYSIS (FEA) FOR
CONSTANT LOADING FORCE APPLIED AT VARIOUS LOCATIONS
DEFLECTION UNDER LOAD (in)
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
20
30
40
50
60
70
80
90
HOLE CENTER LOCATION (% OF DOME RADIUS)

FIG. 9