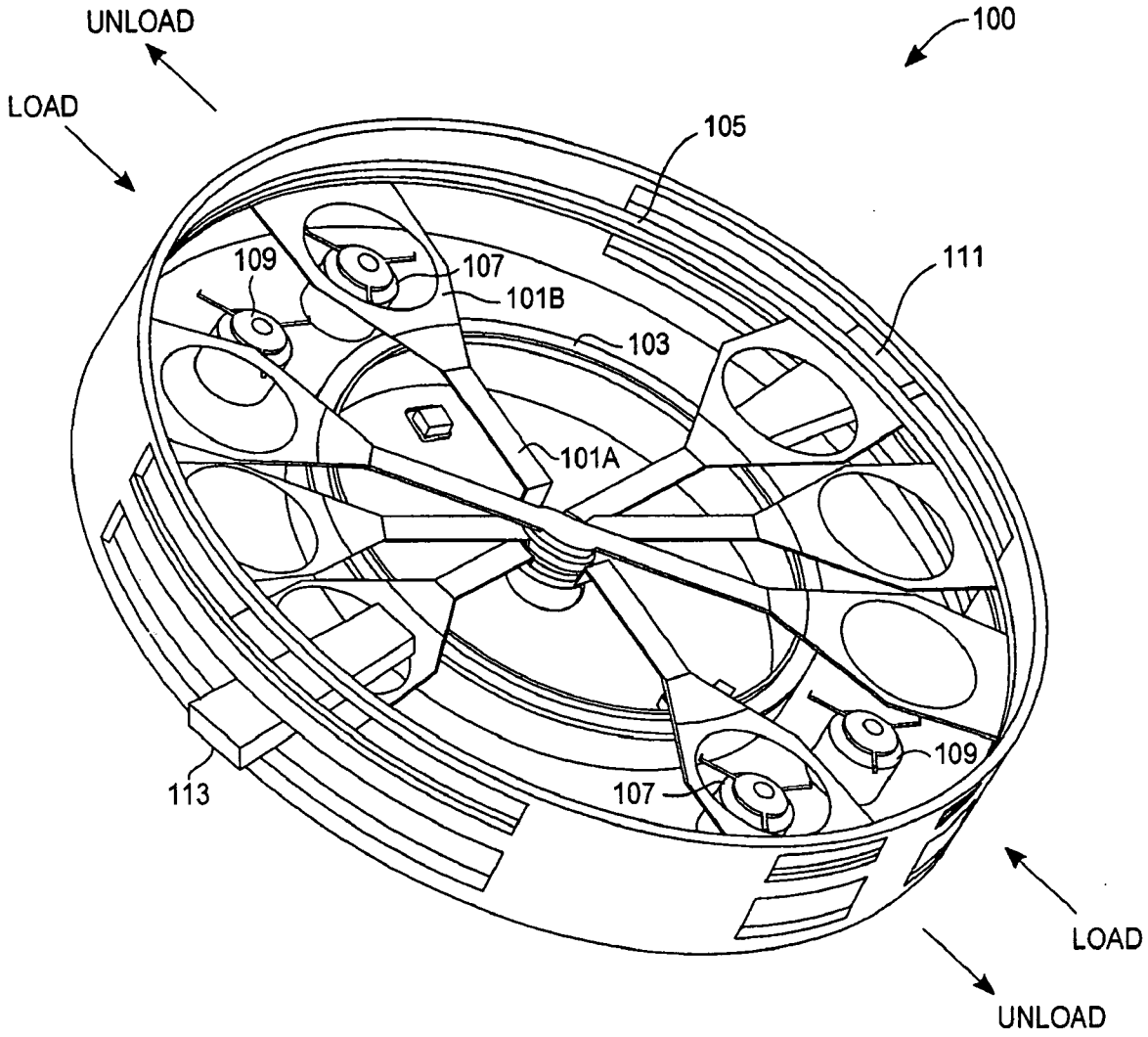

UNLOAD
LOAD
100
105
109
107
101B
103
111
101A
109
113
107
LOAD
UNLOAD

FIG. 1

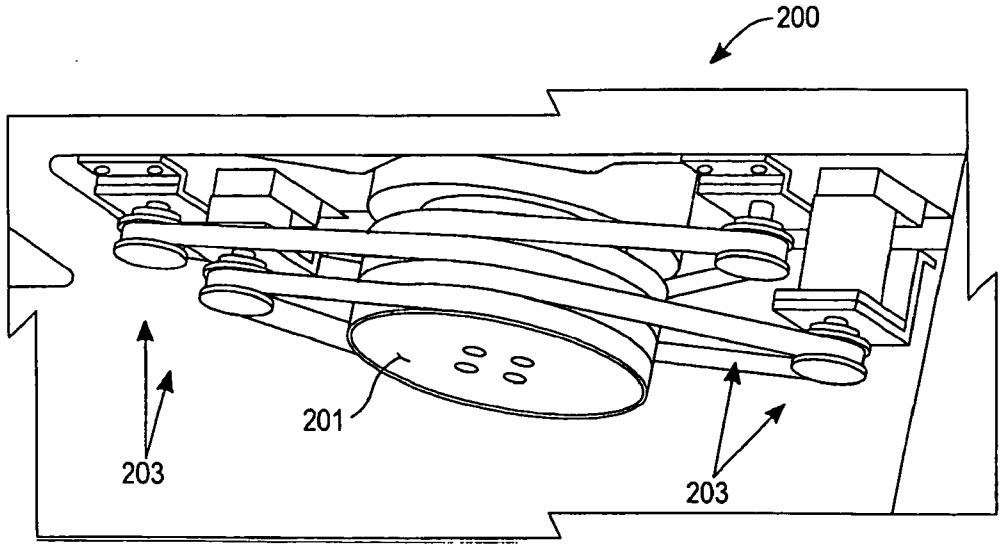

200
201
203
203

FIG. 2

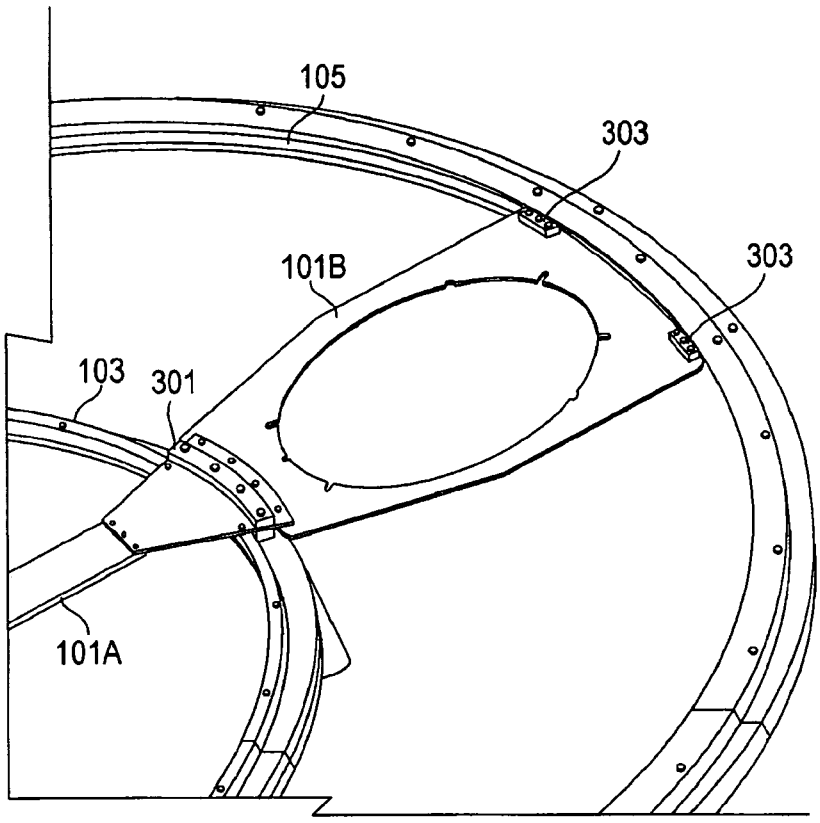


FIG. 3

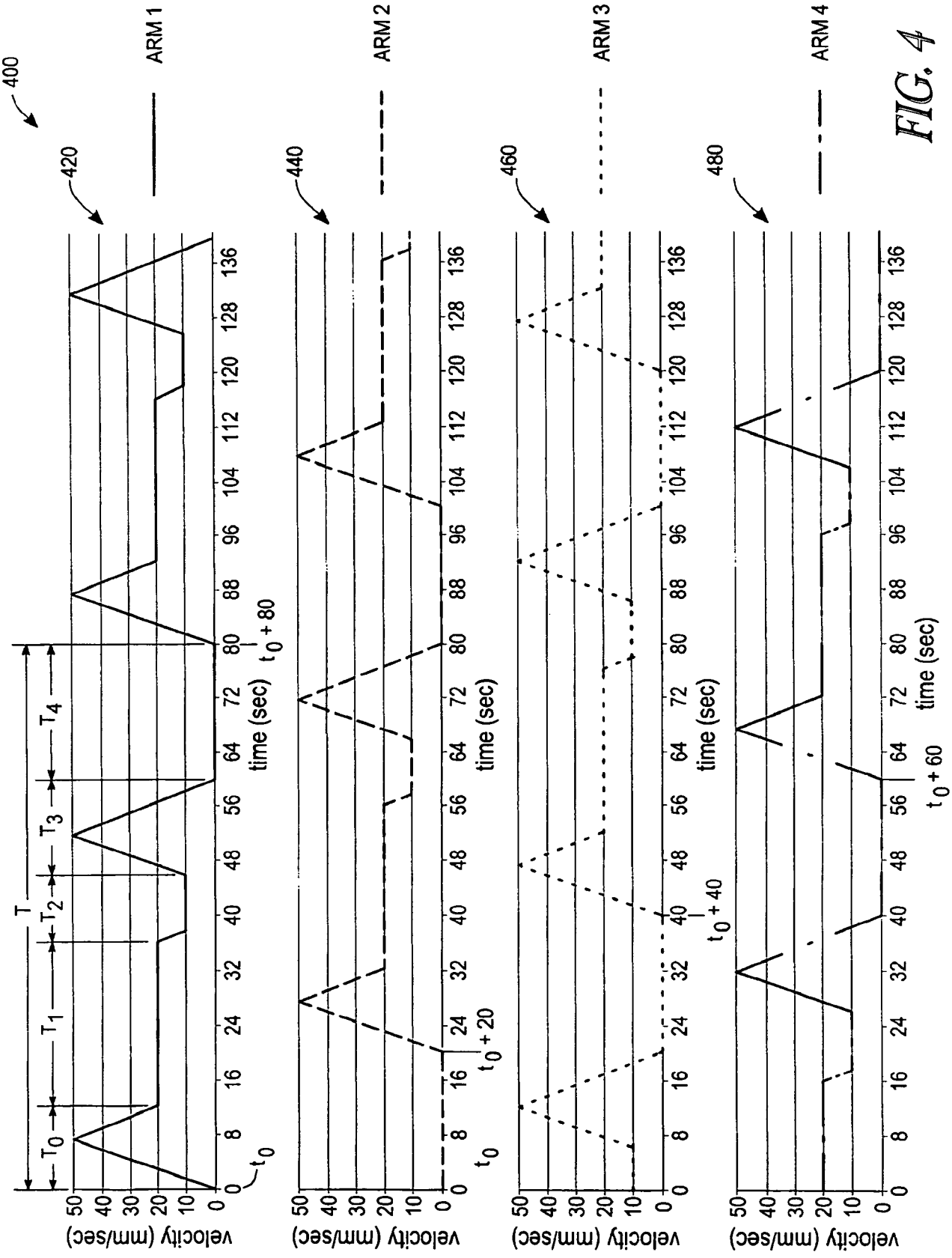

400
420
440
460
480
ARM 1
ARM 2
ARM 3
ARM 4
T
T0
T1
T2
T3
T4
t0
t0 + 20
t0 + 40
t0 + 60
t0 + 80
velocity (mm/sec)
time (sec)
0
8
16
24
32
40
48
56
64
72
80
88
96
104
112
120
128
136
10
20
30
40
50

FIG. 4