7. The dose setting mechanism of claim 1 wherein said dial sleeve has a generally smooth outer surface.

8. The dose setting mechanism of claim 7 comprising a scale arrangement provided along a portion of said generally smooth outer surface.

9. The dose setting mechanism of claim 8 wherein said scale arrangement provided along said portion of said generally smoother outer surface is viewable only through a window provided in an outer housing of said dose setting mechanism.

10. The dose setting mechanism of claim 1 comprising the spindle operatively coupled to said driver such that when said inner housing guides said second driver to dispense said dose set by said dose setting mechanism, said first driver pushes said spindle to act on a cartridge bung while said spindle translates in a distal direction to expel said dose from said cartridge.

11. The dose setting mechanism of claim 1 wherein the inner surface of said inner housing comprises at least one longitudinal groove.

12. The dose setting mechanism of claim 1 wherein the inner surface of said inner housing comprises at least a portion of a helical groove.

13. The dose setting mechanism of claim 1 wherein the inner surface of said inner housing comprises a male groove guide.

14. The dose setting mechanism of claim 1 wherein said spindle comprises at least one groove, said at least one groove allowing said spindle to translate in a distal direction to expel said dose from a cartridge.

15. The dose setting mechanism of claim 1 wherein the inner housing has a length in its axial direction which is essentially the same as the length of the dose setting mechanism, or the outer housing or the dose dial sleeve.

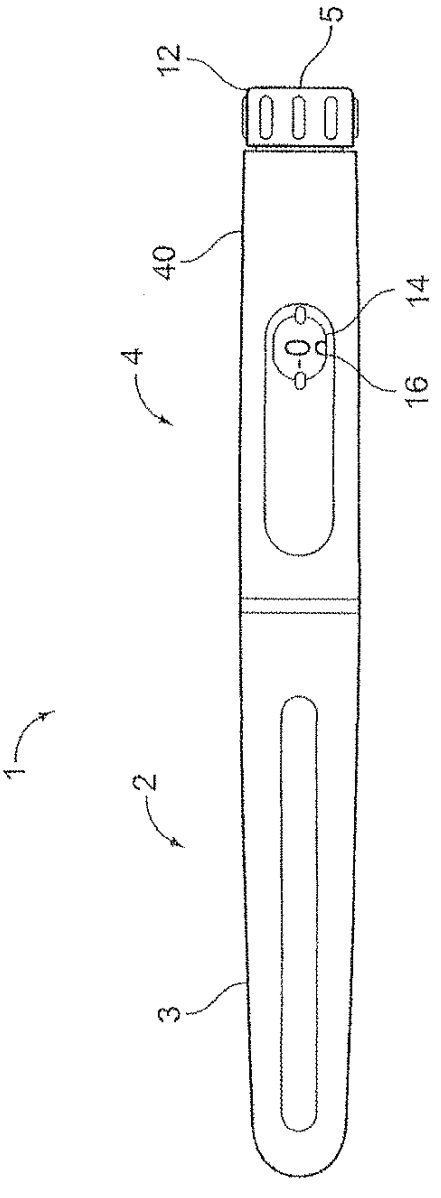

1
2
3
4
5
12
40
14
16
-0-
0

FIG. 1

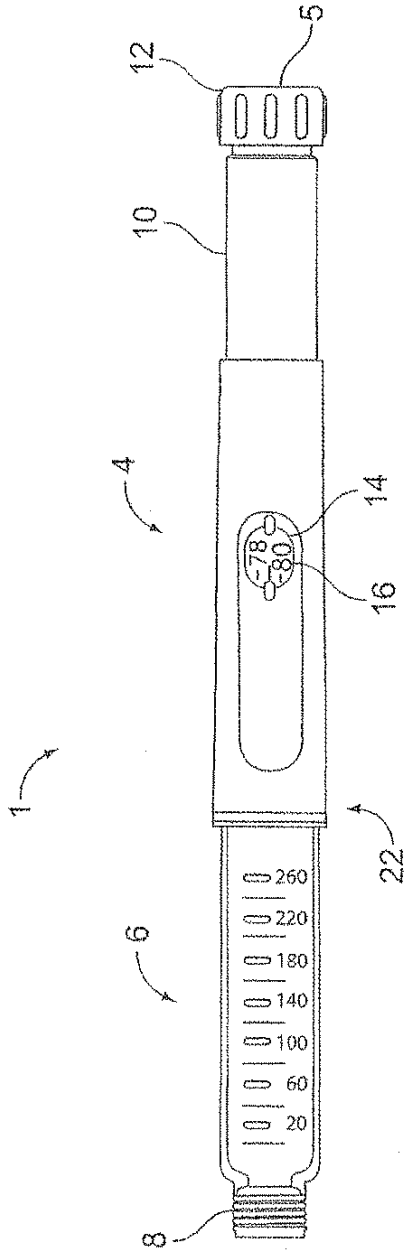

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260
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180
140
100
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20

FIG. 2

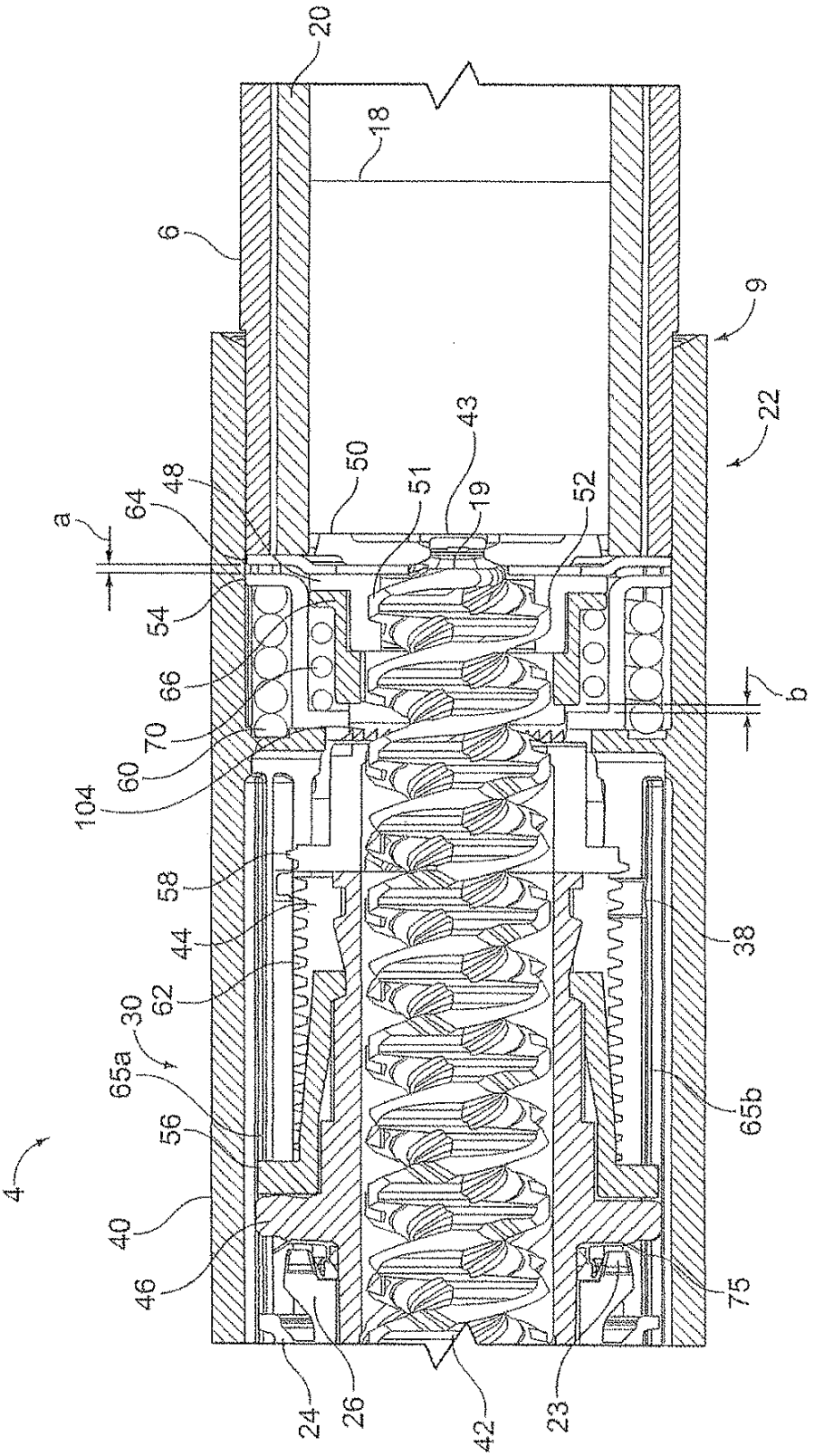

20
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a
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66
70
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104
b
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44
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65a
56
40
46
38
65b
75
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26
42
23

FIG. 3

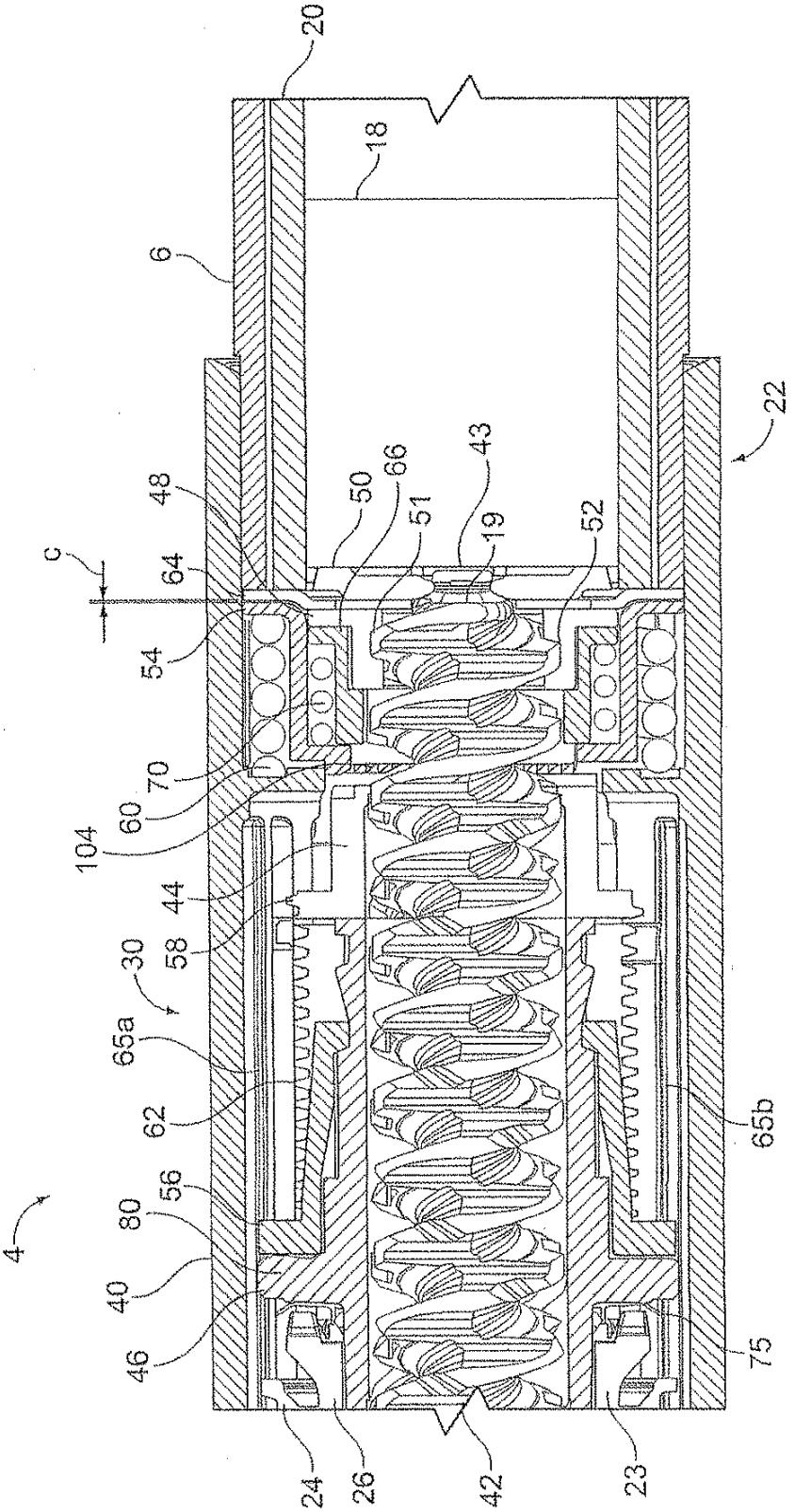

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c
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70
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104
44
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30
65a
62
56
80
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46
4
65b
75
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42
23

FIG. 4

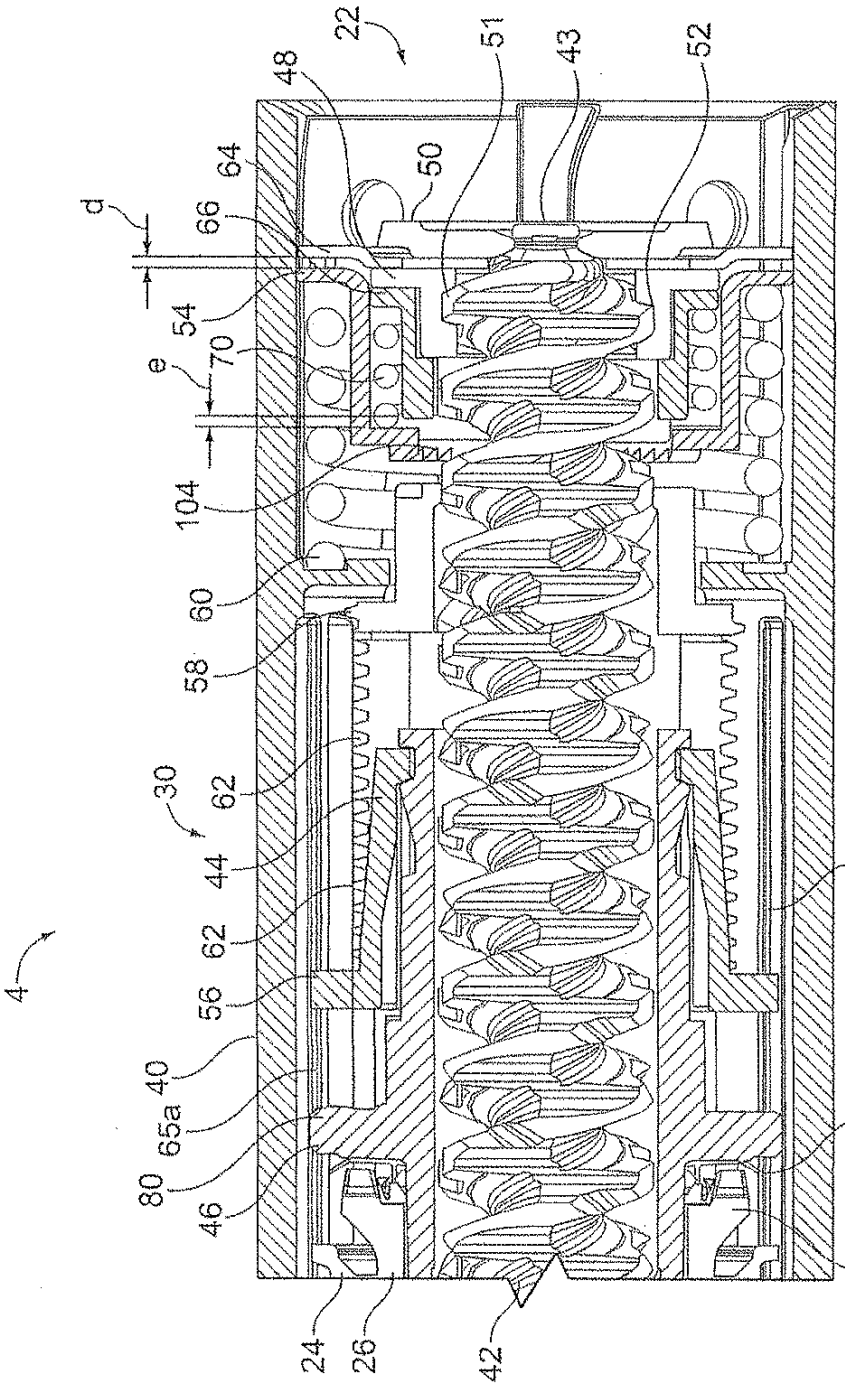

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65b
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FIG. 5

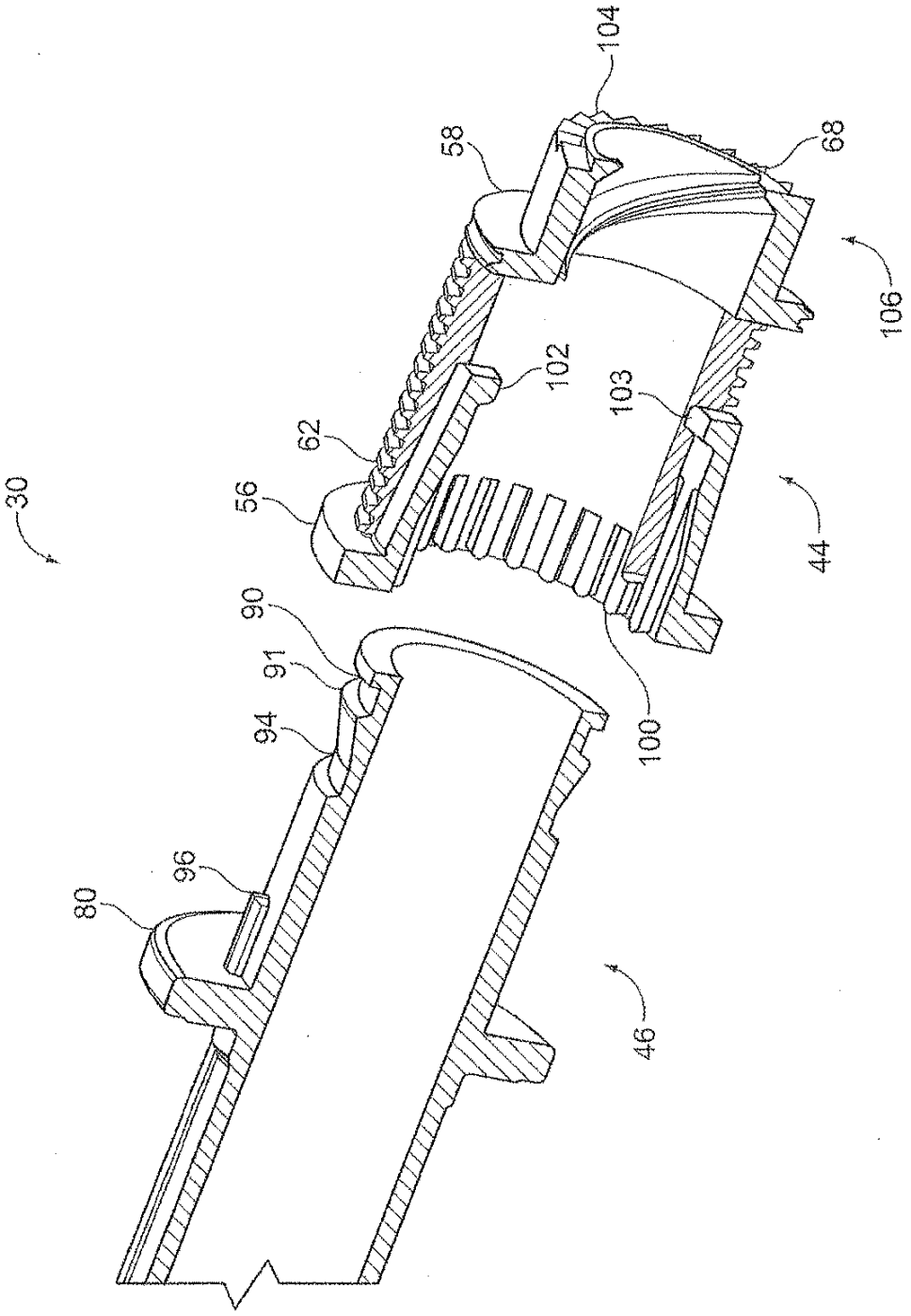


FIG. 6

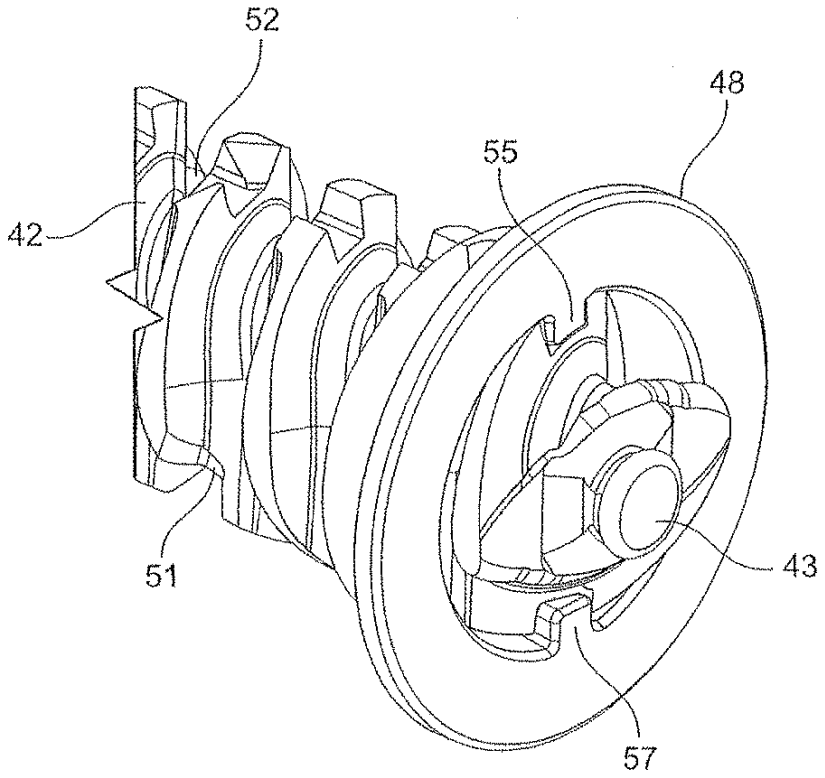


FIG. 7

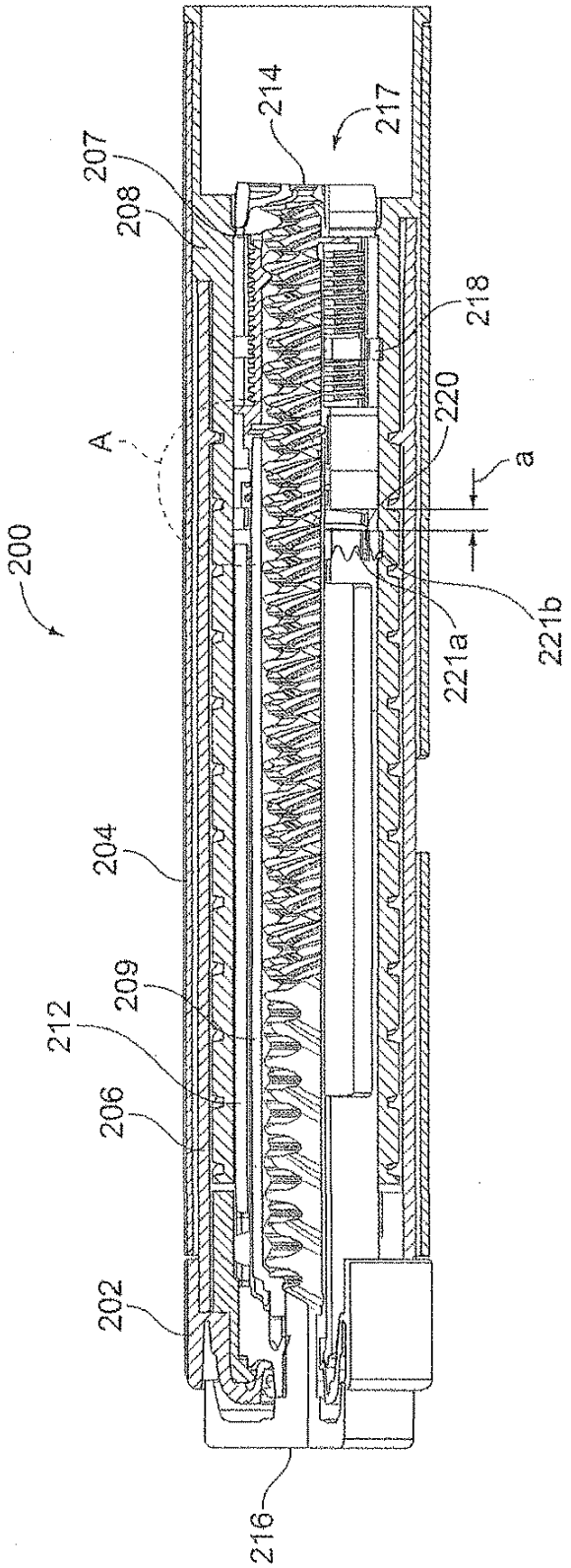


FIG. 8

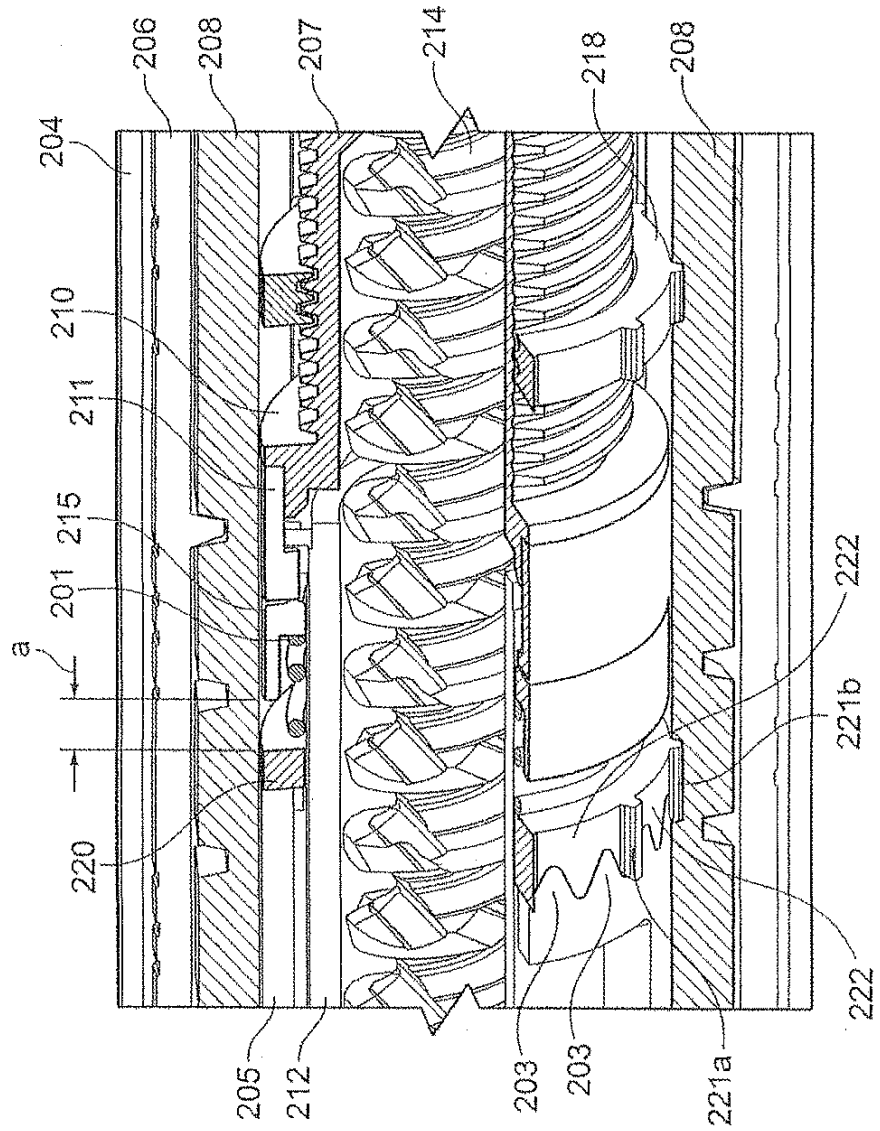

206
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214
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221b
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212
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221a

FIG. 9

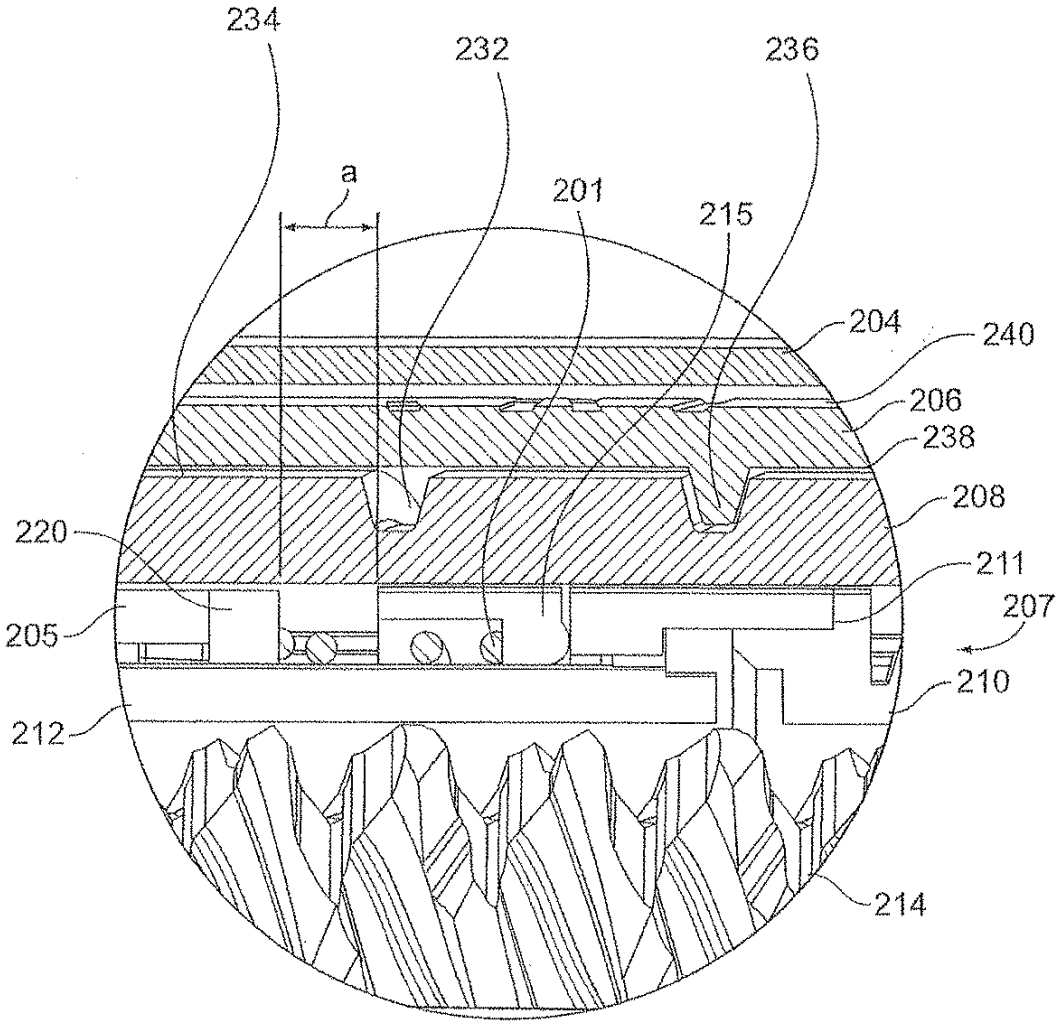

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214

FIG. 10

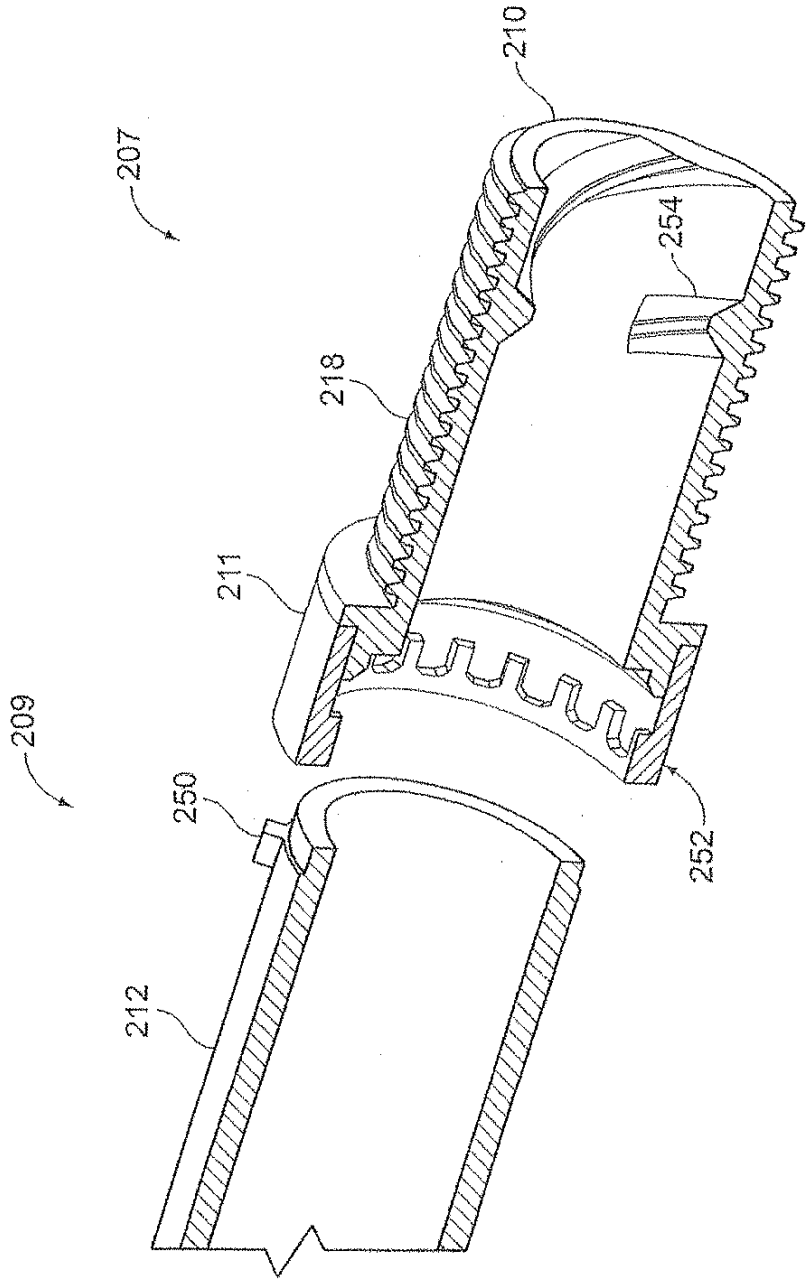


FIG. 11

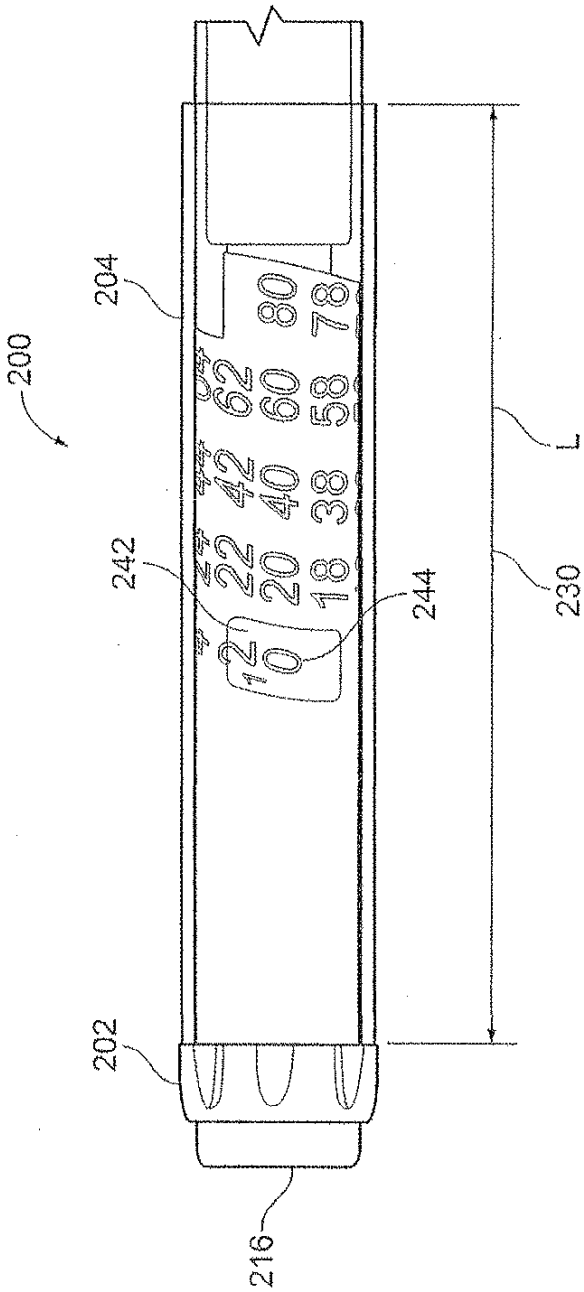


FIG. 12

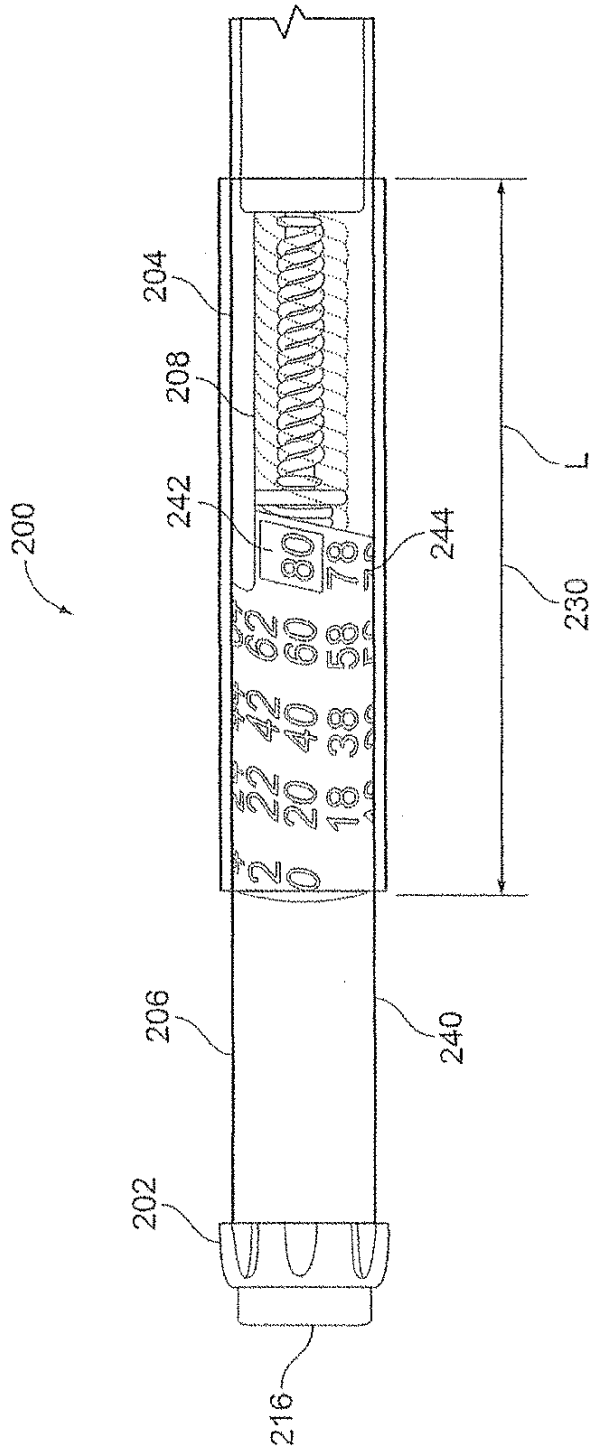

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FIG. 13