

(12) **United States Patent**
Giambattista et al.

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(54) **LOW-COST MEDICATION DELIVERY PEN**

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(73) Assignee: **Becton, Dickinson and Company**, Franklin Lakes, NJ (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(51) Int. Cl.⁷ **A61M 5/00**

(52) U.S. Cl. **604/207**

(58) Field of Search 604/207, 208, 604/209, 210, 211, 187, 218, 224; 222/32, 637

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Primary Examiner—Sharon Kennedy

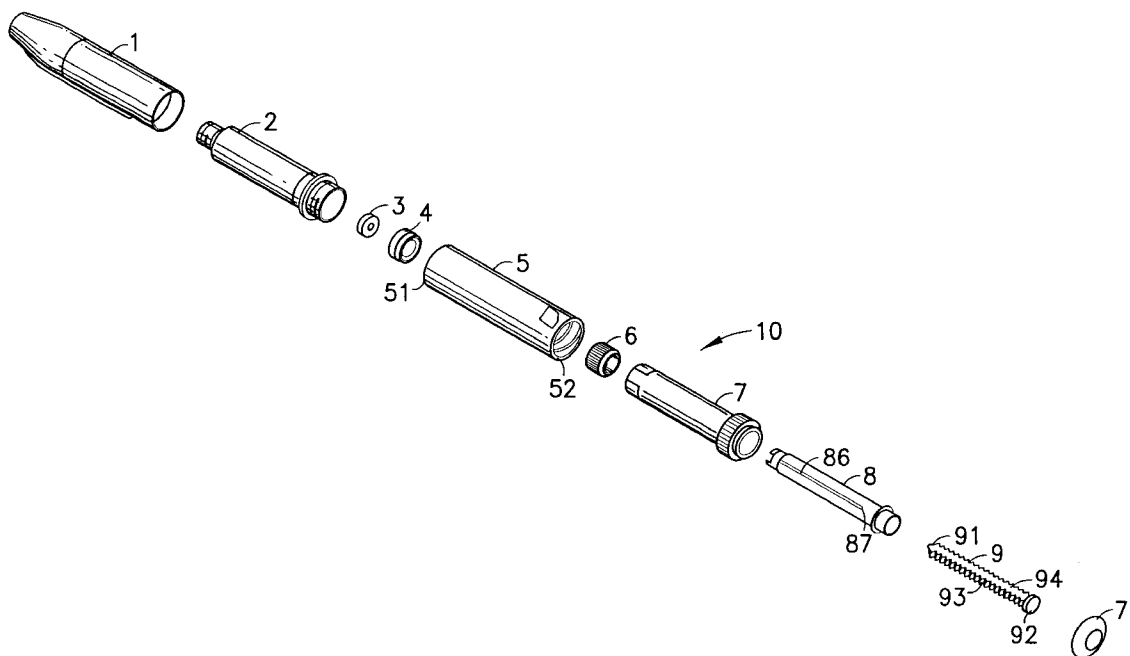
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(57) **ABSTRACT**

A medication delivery pen having very few parts allowing it to be manufactured at a very low-cost. The medication delivery pen also includes an automatic release mechanism to allow the user to easily reset the dose on the medication delivery pen and a mechanism for allowing the lead screw to easily retract back into the body of the medication delivery pen when the vial retainer has been removed to receive a new vial.

7 Claims, 4 Drawing Sheets



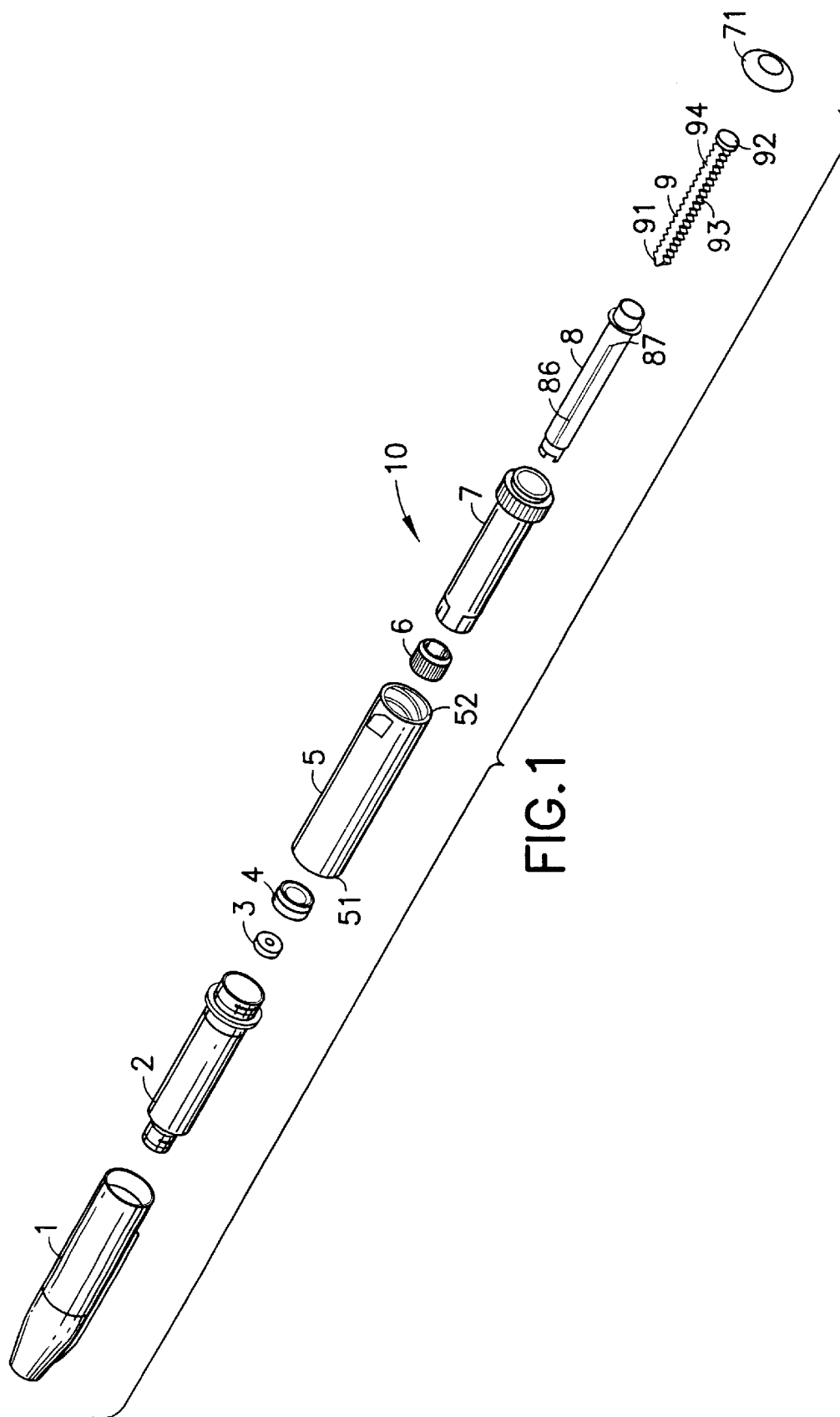


FIG. 1

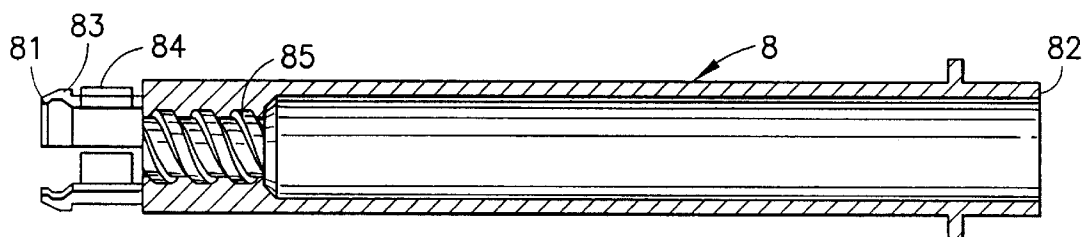


FIG. 2

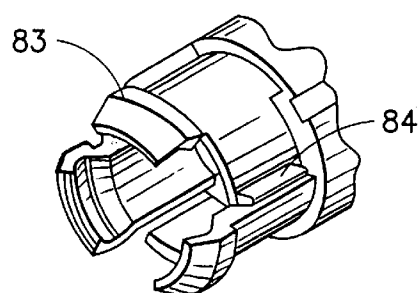


FIG. 3

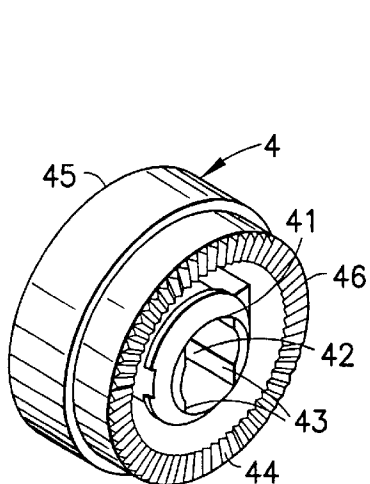


FIG. 4

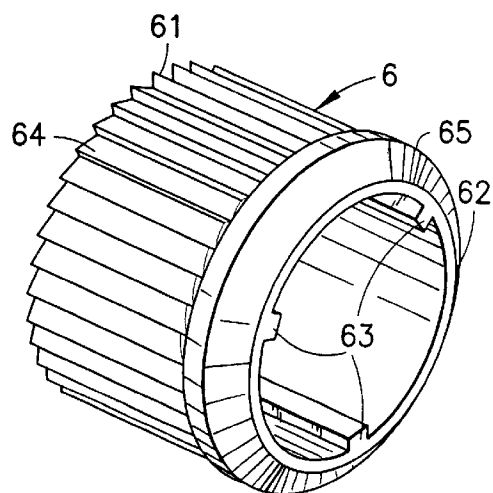


FIG. 5

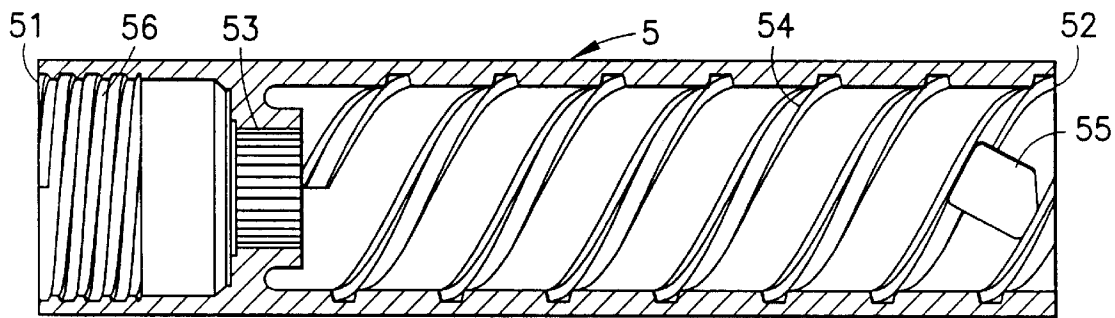


FIG. 6

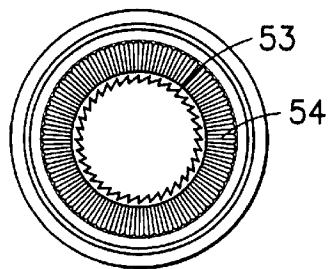


FIG. 7

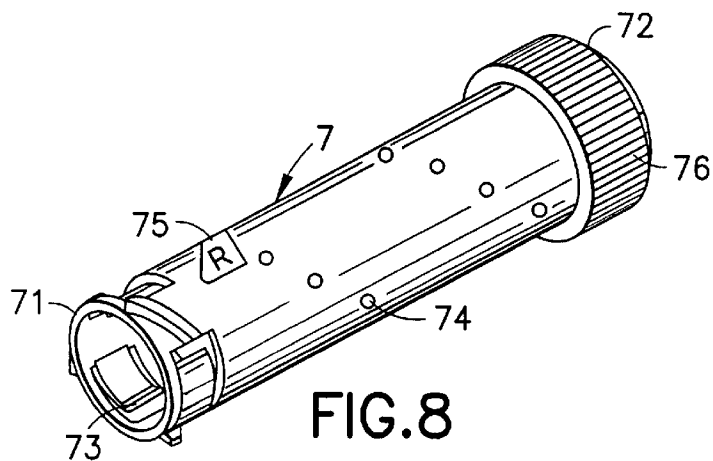


FIG. 8

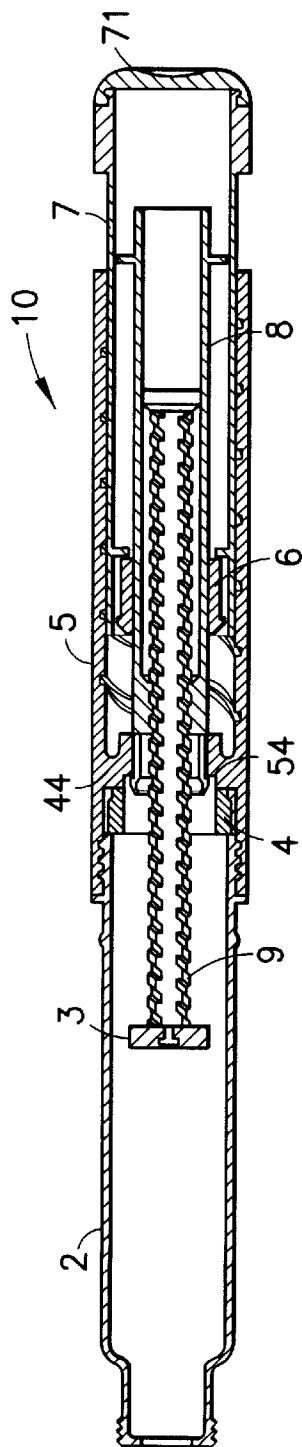


Fig. 9

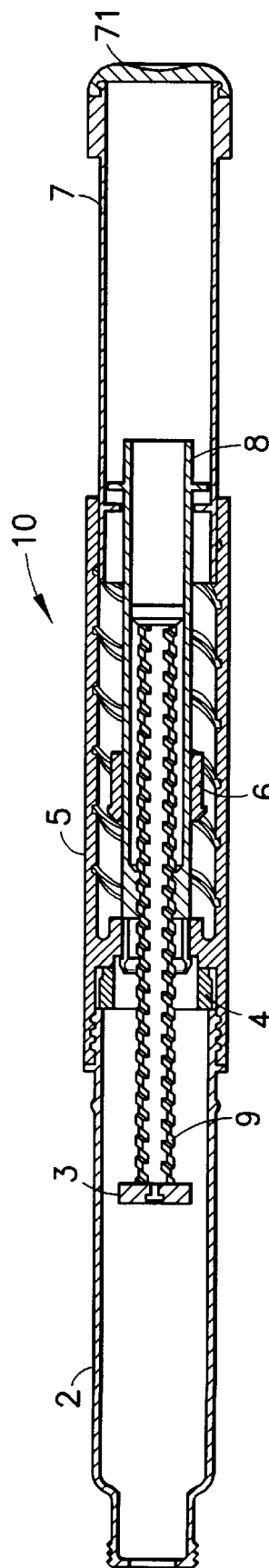


FIG. 10

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