

US008603044B2

(12) United States Patent

Veasey et al.

(54) PEN-TYPE INJECTOR

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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 13/909,649
- (22) Filed: Jun. 4, 2013

(65) **Prior Publication Data**

US 2013/0274680 A1 Oct. 17, 2013

Related U.S. Application Data

(63) Continuation of application No. 12/944,544, filed on Nov. 11, 2010, which is a continuation of application No. 11/483,546, filed on Jul. 11, 2006, now Pat. No. 7,918,833, which is a continuation of application No. 10/790,225, filed on Mar. 2, 2004, now abandoned.

(30) Foreign Application Priority Data

Mar. 3, 2003 (GB) 0304822.0

- (51) Int. Cl. *A61M 5/00* (2006.01)

(10) Patent No.: US 8,603,044 B2

(45) **Date of Patent: Dec. 10, 2013**

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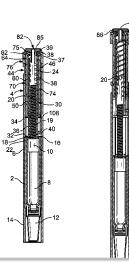
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(57) ABSTRACT

A housing for a dispensing apparatus. The housing comprising a main housing and a dose dial sleeve. The dose dial sleeve comprising a helical groove configured to engage a threading provided by the housing. A dose knob is disposed near a proximal end of the dose dial sleeve and a piston rod is provided within the housing. The piston rod is non-rotatable during a dose setting step. A driver comprises an internal threading near a distal portion of the driver and is adapted to engage an external thread of the piston rod. A tubular clutch is located adjacent a distal end of the dose knob and operatively coupled to the dose knob. The dose dial sleeve may extend circumferentially around at least a portion of the tubular clutch.

20 Claims, 7 Drawing Sheets



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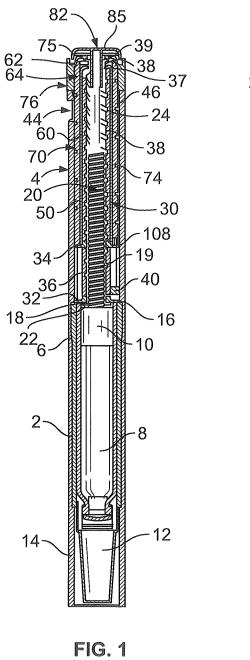
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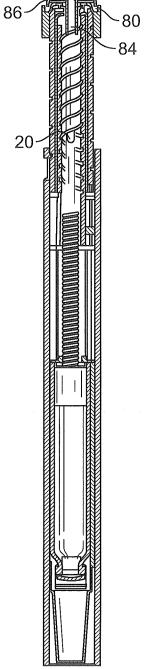
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FIG. 2

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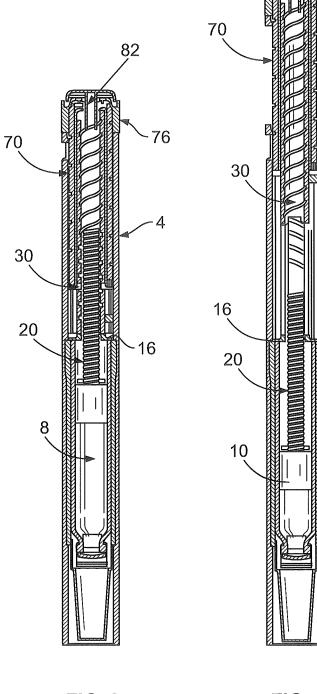


FIG. 3

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FIG. 4

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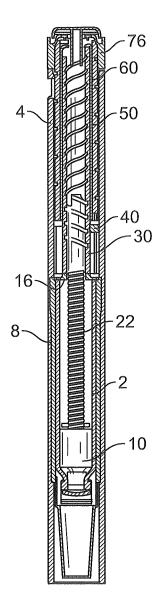


FIG. 5

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