

Exhibit J



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

(10) **Patent No.:** **US 9,687,611 B2**
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(54) **INJECTION DEVICE WITH TORSION SPRING AND ROTATABLE DISPLAY**

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(73) Assignee: **Novo Nordisk A/S**, Bagsvaerd (DK)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 670 days.
This patent is subject to a terminal disclaimer.

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(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. 13/626,541, filed on Sep. 25, 2012, now Pat. No. 8,684,969, which is a (Continued)

(30) **Foreign Application Priority Data**

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(51) **Int. Cl.**
A61M 5/20 (2006.01)
A61M 5/315 (2006.01)

(Continued)

(52) **U.S. Cl.**
CPC **A61M 5/31535** (2013.01); **A61M 5/14566** (2013.01); **A61M 5/20** (2013.01);
(Continued)

(58) **Field of Classification Search**

CPC A61M 2205/202; A61M 2205/3125; A61M 5/20; A61M 5/3155; A61M 5/31583
See application file for complete search history.

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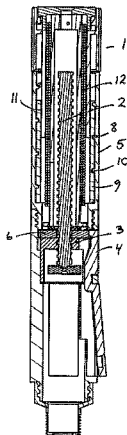
Owen Mumford Product Range.
Definition of Torsion Spring from wikipedia.org.

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(74) *Attorney, Agent, or Firm* — Wesley Nicolas

(57) **ABSTRACT**

The present invention relates to an injection device comprising a torsion spring operatively connected to a dose setting member being adapted to set a dose to be ejected from the injection device. A rotatably mounted display member adapted to display the dose to be ejected in accordance with a setting of the dose setting member is also provided. The rotatably mounted display member is adapted to be rotated over an angle corresponding to at least one revolution of the display member. The display member may be implemented as a dose indicator barrel having numerals arranged along a helical path on an outer surface thereof, or alternatively, as a counting device having two or more display wheels having numerals arranged on an outer surface thereof.

15 Claims, 5 Drawing Sheets



US 9,687,611 B2

Related U.S. Application Data

continuation of application No. 11/665,571, filed as application No. PCT/EP2005/011287 on Oct. 20, 2005, now Pat. No. 8,357,120.
 (60) Provisional application No. 60/626,271, filed on Nov. 9, 2004.

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(52) **U.S. Cl.**

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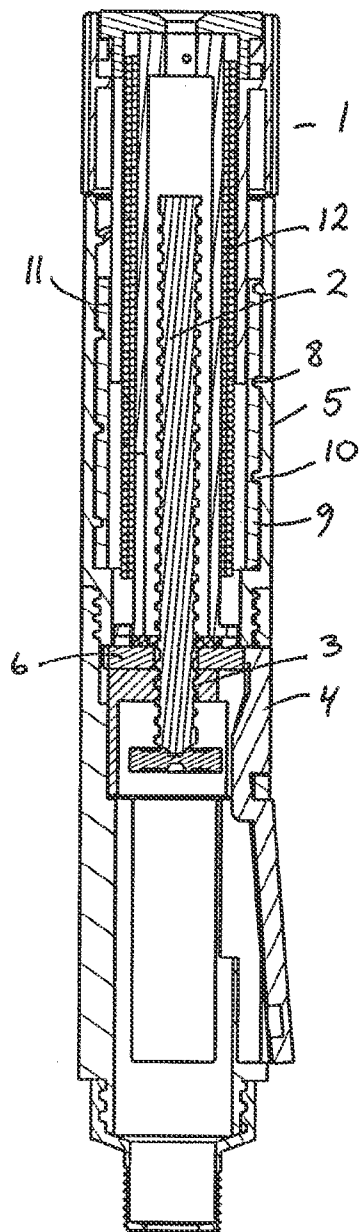


Fig. 1

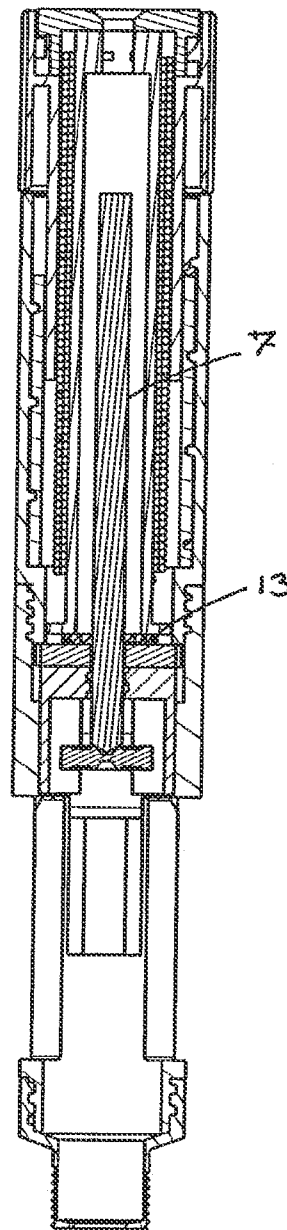


Fig. 2

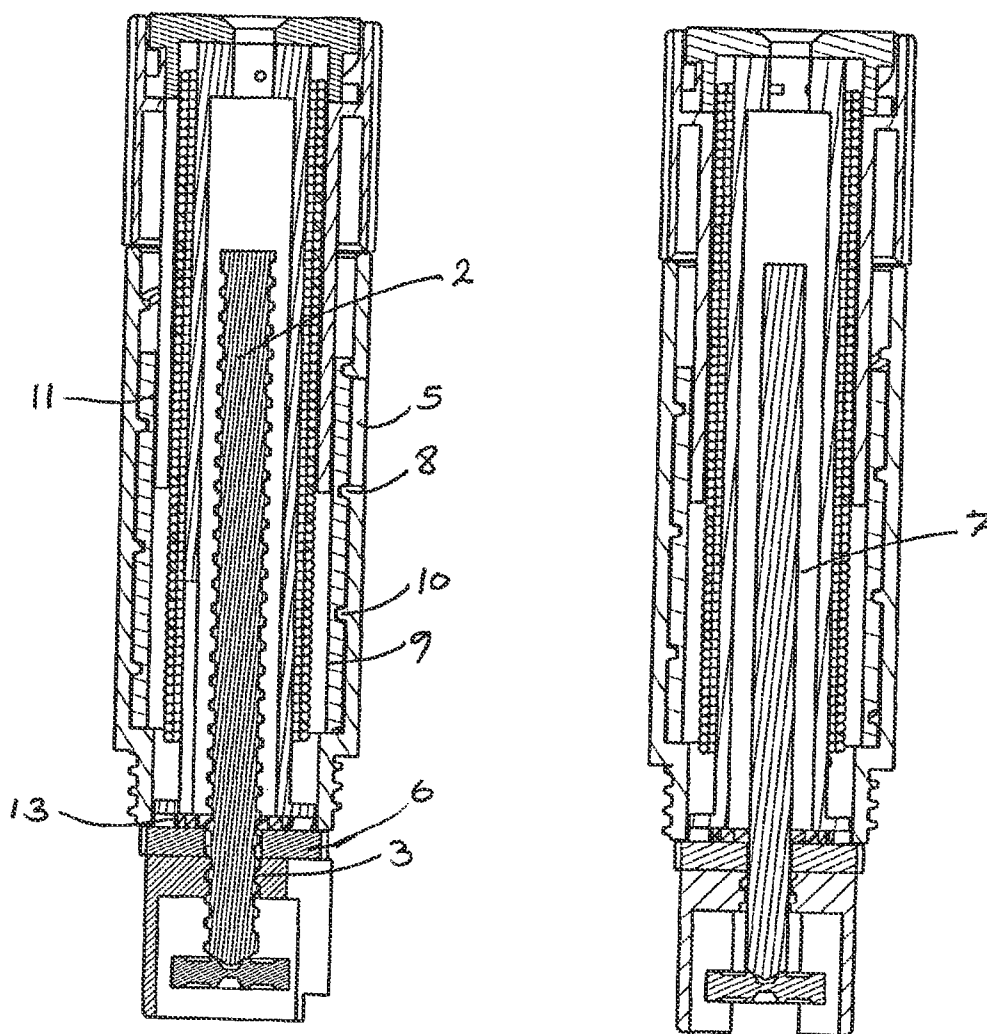


Fig. 3

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