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**Enggaard et al.**

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(54) **DOSE MECHANISM FOR AN INJECTION  
DEVICE FOR LIMITING A DOSE SETTING  
CORRESPONDING TO THE AMOUNT OF  
MEDICAMENT LEFT**

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(58) **Field of Classification Search**  
USPC ..... 604/181, 187, 207–211, 218–231  
See application file for complete search history.

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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.

**U.S. PATENT DOCUMENTS**

This patent is subject to a terminal dis-  
claimer.

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**Related U.S. Application Data**

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(57) **ABSTRACT**

A mechanism for preventing setting of a dose, which exceeds  
the amount of a medicament in a reservoir in an injection  
device. The device comprises a threaded piston rod, a limiter  
and a driver. The three elements are arranged such that during  
dose setting, the limiter is moved towards an end-of-content  
position, wherein dose setting is limited. The invention com-  
prises an accumulative and a non-accumulative embodiment.  
The invention further relates to a mechanism for prevention  
ejection of a dose exceeding the set dose.

**13 Claims, 7 Drawing Sheets**

