No. 774,887. PATENTED NOV. 15, 1904.

F. H. MAXAM.

PEN EJECTING PENHOLDER.

APPLICATION FILED FEB. 4, 1904.

NO MODEL.

Fig. 1.

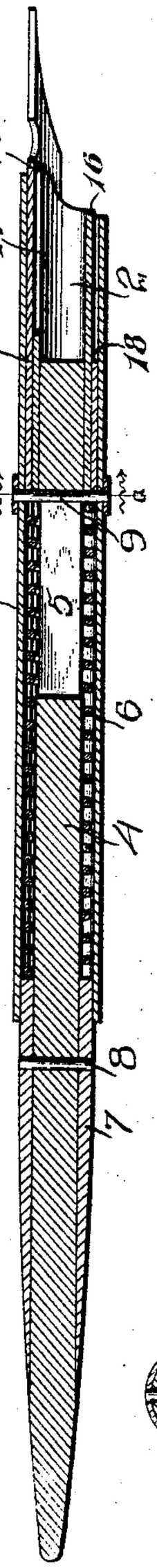

Fig. 2.

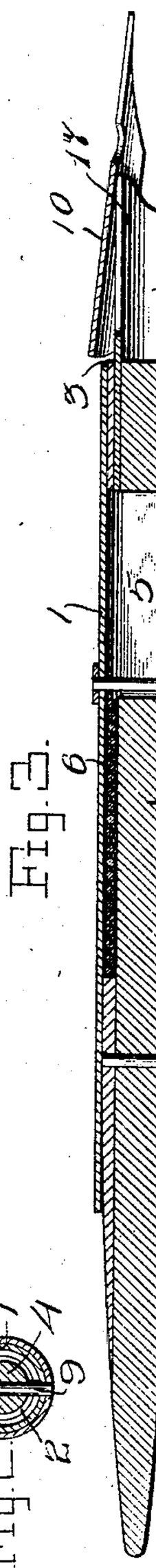

Fig. 4.

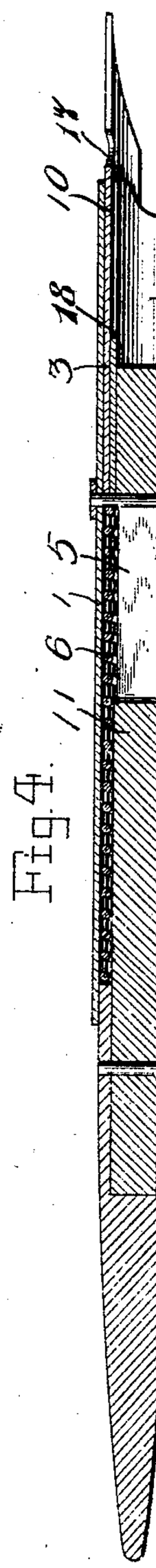

Fig. 5.

Fig. 3.

Witnesses

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No. 774,887. Patented November 15, 1904.

UNITED STATES PATENT OFFICE.

FRANKLIN H. MAXAM, OF PRINCETON, INDIANA.

PEN-EJECTING PENHOLDER.

SPECIFICATION forming part of Letters Patent No. 774,887, dated November 15, 1904.

Application filed February 4, 1904. Serial No. 192,022. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN H. MAXAM, a citizen of the United States, residing at Princeton, in the county of Gibson and State of Indiana, have invented certain new and useful Improvements in Pen-Ejecting Penholders; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention is an improved pen-ejecting penholder; and it consists in the construction, combination, and arrangement of devices hereinafter described and claimed.

The object of my invention is to provide a simple and inexpensive device for use in connection with a penholder for ejecting the pen without the necessity of the fingers of the user coming in contact with the pen.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of a pen-ejecting penholder embodying my improvements. Fig. 2 is a transverse sectional view of the same, taken on the plane indicated by the line *a a* of Fig. 1. Fig. 3 is a sectional view similar to Fig. 1, showing the pen-ejecting element pressed outwardly from the stock to eject a pen therethrough; and Fig. 4 is a sectional view showing a modified form of my invention. Fig. 5 is a similar view showing another modification.

In the embodiment of my invention I provide a tubular stock 1, which may be of cylindrical or any other shape and which may be of any suitable size. In one end of the stock is a pen holding and ejecting element 2, which is slidable longitudinally therein, so that it may be withdrawn into the stock or projected outwardly therefrom. The pen holding and ejecting element comprises a cylindrical sleeve 16, having a longitudinal slit 17 on one side extending to its outer end and a sleeve 18 on the inner portion of the sleeve 16 and of suitable diameter to enable it to slide in the tubular stock 1. The sleeve 18 forms a shoulder 3, against which the inner end of the pen bears. The said pen holding and ejecting element 2 in its normal position within the stock coacts with one end of the latter to hold the pen therein, as will be understood. The pen holding and ejecting element is provided with a longitudinal stem 4, which extends through the stock 1. One end of the stem 4 enters and is secured in the inner end of the sleeve 16. In the form of my invention shown in Fig. 5 the said stem is tubular. The stem may be of any suitable construction, and I do not desire to limit myself in this particular. The stem is provided near the pen holding and ejecting element with a longitudinal slot 5 of suitable length, which extends transversely therethrough. In the form of my invention here shown I employ a coiled extensile spring 6, which is placed on the stem and within the stock. On the end of the stem opposite the pen holding and ejecting element is secured a plug 7, the same being of any suitable size and shape and may be secured to the stem by any suitable means. It is here shown in Figs. 1 and 3 as detachably secured to the stem by means of a pin 8. The plug is slidably fitted in the end of the stock opposite that in which the pen holding and ejecting element is slidably fitted, and one end of the spring 6 bears against said plug. In the form of my invention here shown a pin, rivet, or other suitable device 9 extends through the opening in the stock and through the slot 5 in the stem, and one end of the spring bears against said pin, rivet, or device. The spring is maintained at such tension by the plug and the pin or rivet as to cause the spring to normally keep the pen holding and ejecting element within the stock, as shown in Fig. 1. By pressing the pen holding and ejecting element outwardly against the tension of the spring by means of the plug, as shown in Fig. 3, the pen may be readily pushed out of the stock and ejected therefrom, as will be understood. The pen is indicated at 10 and of course may be of any of the usual forms. The extent to which the pen holding and ejecting element may be moved is limited by the length of the slot in the stem.

In the form of my invention shown in Figs. 1 and 3 the pen holding and ejecting element is shown as formed with a solid core which extends entirely through the plug 7. In the form shown in Fig. 4 the stem 11 has its outer end fitted in a recess in the plug 12. In the

form shown in Fig. 5 the stem 13 is tubular in form and the spring 14 is disposed within said tubular stem. One end of the tubular stem forms a stop-shoulder 15, against which the pen abuts; but I do not limit myself in these particulars, as the stem may be of any suitable construction; neither do I desire to limit myself to the precise construction and combination of devices herein shown and described, as it is evident that other modifications may be made within the scope of the appended claim.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

In combination with a tubular stock, a pen holding and ejecting element slidable therein at one end thereof and comprising a sleeve having a longitudinal slit in one side and extending to its outer end, and a sleeve on the first-mentioned sleeve at the inner end thereof, slidable in the stock and forming a shoulder on the first-mentioned sleeve, a stem extending through the stock and having one end secured in the first-mentioned sleeve of the pen holding and ejecting element, a spring to press the holding and ejecting element inwardly in the stock, and means to limit the movement of said element, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANKLIN H. MAXAM.

Witnesses:
W. A. Mossman,
Henry A. Yeager.