

No. 834,744.

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J. J. MEAD.
FOUNTAIN PEN.

APPLICATION FILED APR. 5, 1906.

Fig. 1.

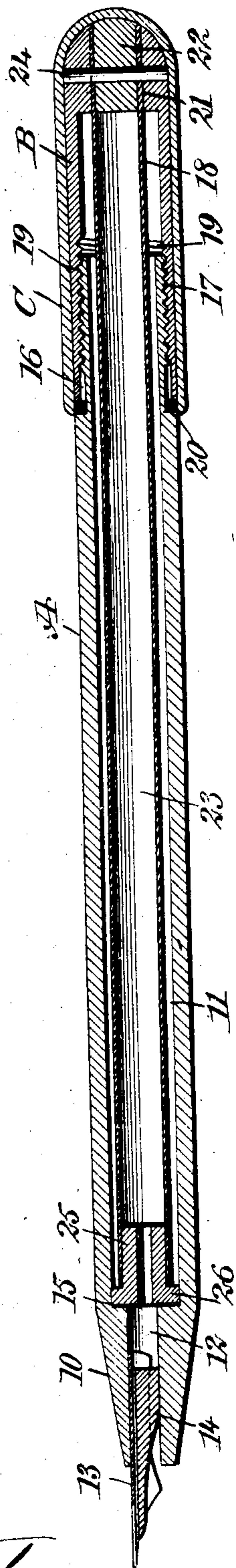
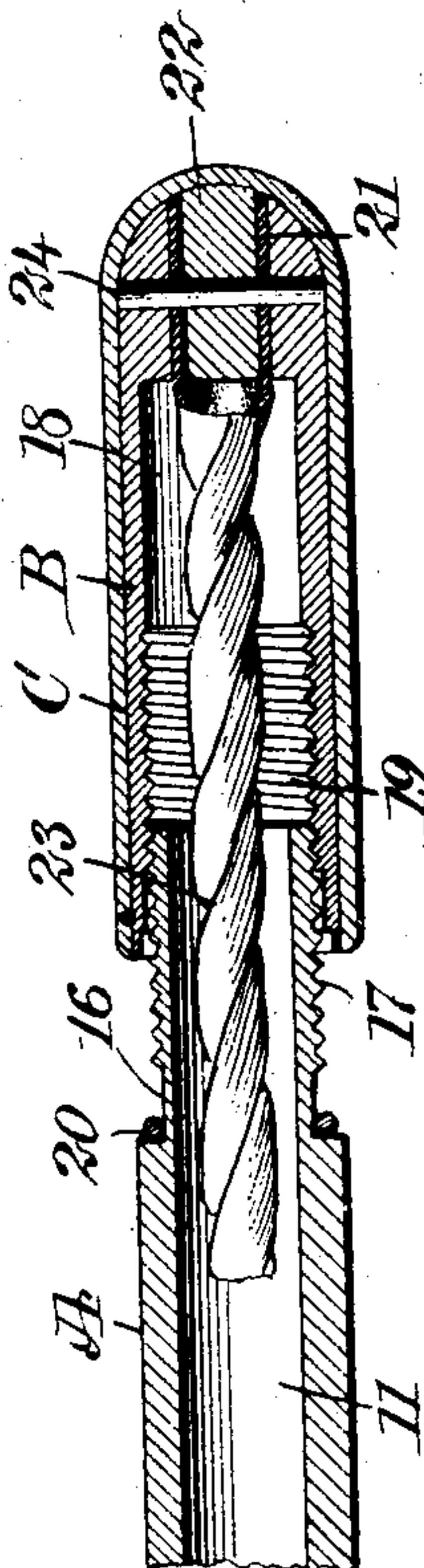


Fig. 2.



WITNESSES

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JACOB J. MEAD, OF NEW YORK, N. Y.

FOUNTAIN-PEN.

No. 834,744.

Specification of Letters Patent.

Patented Oct. 30, 1906.

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To all whom it may concern:

Be it known that I, JACOB J. MEAD, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Fountain-Pen, of which the following is a full, clear, and exact description.

The purpose of the invention is to provide a fountain-pen of that type which contains a sack as a receiver and container of the writing fluid, so constructed that it will be simple and economic and so that the parts will be few in number and may be assembled and secured in position in a rapid, convenient, and durable manner.

Another purpose of the invention is to provide simple and readily-operated means for twisting the sack to exclude air therefrom and for untwisting it to draw in the ink by suction.

A further purpose of the invention is to so construct the head of the barrel which is connected with the sack that it may be operated as readily with the cap over the head as when the said cap is not in position on the pen.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal section through the complete pen with the parts in normal position; and Fig. 2 is a section through the head end of the pen, showing the position of the parts when the sack is twisted.

The barrel is made in two sections—a main or body section A, with which the tip 10 is integral, and a head-section B. The body portion A of the barrel is provided with a chamber 11, which extends from the tip out through the end of the body, where it connects with the head-section B, and this chamber 11 is of uniform diameter throughout and connects with the feed-channel 12 in the tip 10, in which channel the pen-nib 13 is located and the feeder 14, which latter may be of any approved type.

Since the feed-channel 12 is of less diameter than the chamber 11, a shoulder 15 is formed where the channel and chamber connect, as is shown in Fig. 1. The exterior

rear portion of the body A is provided with an annular recess 16, and the exterior wall of this reduced or recessed portion 16 of the body is provided with a right or left hand thread 17. The head B is likewise provided with a chamber 18, larger than the chamber 11 in the body-section A, but in communication with the said body-chamber, as is shown in both Figs. 1 and 2. The lower portion of the head-section B is provided with an interior thread 19 to engage with the exterior thread 17 of the body-section A, and when these two sections A and B are in normal position—that is, in substantially close relation—they will engage a washer 20, of elastic material, located at the forward end portion of the exterior recess in the body-section A.

The head-section B of the pen is provided with an opening 21 at its central portion, and this opening 21 is adapted to receive a plug 22 after the said plug has been passed into the outer end of a sack 23 of elastic material, the sack being normally in the form of a tube, as illustrated in Fig. 1, and the said plug is held in position by a pin 24, passed through the outer end of the head. At the inner end of the sack 23, or that end which is at the tip 10 of the body-section A, a sleeve 25 is fitted into the sack, as is shown in Fig. 1, and the sleeve at its outer end has a flange 26, which fits snugly to the wall of the chamber 11. The outer end portion of the said sleeve 25 is secured to the shoulder 15 by a cement of any approved type. The pen is provided with the usual cap C, which normally covers the tip 10 of the pen and when the pen is in use is placed over the head B.

In operation, as shown, when the head B is screwed to the left the sack 23 is twisted, as shown in Fig. 2, to expel the air therefrom, and at such time the tip of the pen is introduced into the writing fluid, and then the head B is turned in a reverse direction, or to the right, whereupon the sack 23 is restored to its normal position, and the liquid is sucked up therein while such restoration takes place. As the head B is turned to the left it is unscrewed from the body A to a given extent, and this elongates the sack as well as twists it, and when the head B has been turned as far as possible to the right the inner end of the head will engage with the washer 20 on the body.

Since the cap C is in close yet frictional engagement with the head B, it is possible to turn the head to the right or to the left while

the cap is in position thereon, so that the pen can be filled even with the cap on the head; but the cap need not necessarily be in such position at the time of filling.

5 Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. As an improved article of manufacture, a fountain-pen consisting of a barrel and tip, 10 the chamber of the barrel being of uniform diameter and the feed-channel in the tip of lesser diameter, and a head-section having an opening in its rear end and adapted for connection with the body-section, the body-section 15 at its rear end being exteriorly reduced in diameter and provided at its reduced portion with an exterior right-hand thread, the head having an interior thread corresponding to the exterior thread of the body, a sack, 20 one of whose ends is provided with a plug which enters and is secured in the opening at the rear end of the head-section, the opposite end of the sack having a flanged sleeve inserted therein, which sleeve is secured to the 25 forward wall of the barrel-chamber.

2. In a fountain-pen, the combination with a barrel and its tip, the barrel being provided at its rear end, which is open, with

an exteriorly-threaded circumferentially-reduced section, and an elastic washer at the 30 forward portion of the said reduced section, of a head having a chamber therein corresponding to the chamber in the barrel, the head having an interior thread for engagement with the exterior thread of the body, 35 the rear end of the head having an opening produced therein, a tubular sack, a plug located in one end of the sack, which plug and the portion of the sack containing it fill the opening in the rear end of the head, a 40 fastening device for holding the plug and sack securely to the head, the said sack extending the length of the chambers in the head and in the barrel, and a sleeve introduced into the forward end of the sack, being 45 secured thereto, which sleeve is secured to the forward wall of the barrel-chamber for the purposes described.

In testimony whereof I have signed my name to this specification in the presence of 50 two subscribing witnesses.

JACOB J. MEAD.

Witnesses:

J. FRED. ACKER,
JNO. M. RITTER.