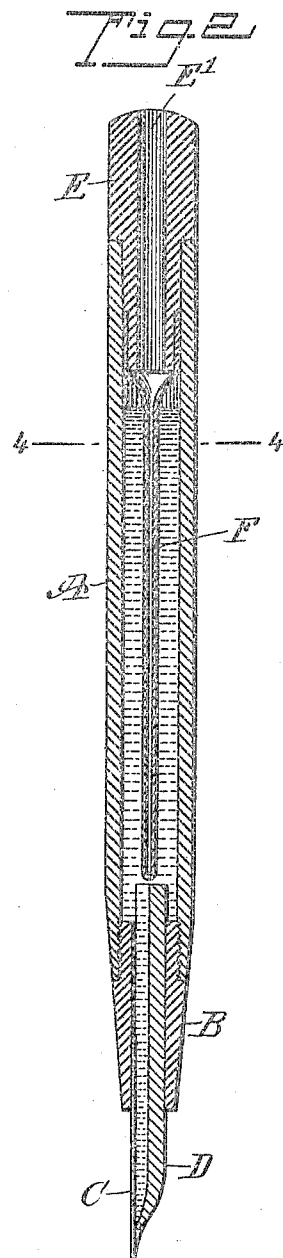
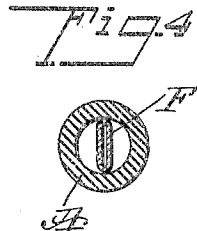
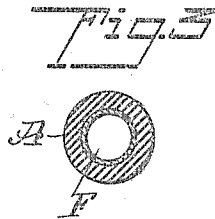
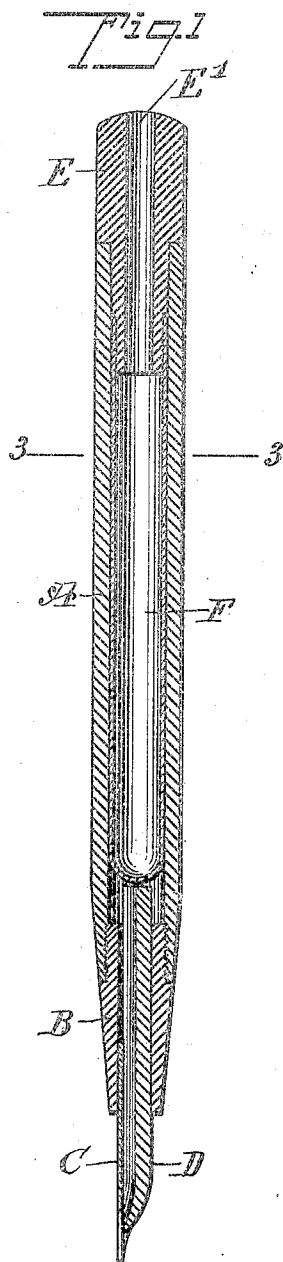


No. 789,532.

PATENTED MAY 9, 1905.

D. F. GALLAGHER.
FOUNTAIN PEN.
APPLICATION FILED NOV. 1, 1904.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DARIUS F. GALLAGHER, OF NEW YORK, N. Y.

FOUNTAIN-PEN.

SPECIFICATION forming part of Letters Patent No. 789,532, dated May 9, 1905.

Application filed November 1, 1904. Serial No. 230,908.

To all whom it may concern:

Be it known that I, DARIUS F. GALLAGHER, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county 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 object of the invention is to provide a new and improved fountain-pen which is simple and durable in construction, cheap to manufacture, and easily and conveniently filled whenever required without disconnection of the parts or soiling of the user's hands.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a longitudinal sectional elevation of the improvement, showing the bag expanded to drive the air out of the casing. Fig. 2 is a like view of the same, showing the bag collapsed and the casing filled with ink. Fig. 3 is a cross-section of the same on the line 3 3 of Fig. 1, and Fig. 4 is a similar view of the same on the line 4 4 of Fig. 2.

The casing or barrel A of the fountain-pen is provided at its lower end with the usual pen and feed-section B, carrying the pen C and the feed D, and the upper end of the said casing A is provided with a removable closure E, having an air-passage E' leading to the interior of a bag F, preferably made of rubber, and extending within the casing A from the inner end of the closure E up to or within a short distance of the feed end of the fountain-pen.

The bag F is preferably made of rubber and in its normal state is collapsed and in a flat position, as plainly indicated in Figs. 2 and 4, and the mouth of the said bag is fitted on the inner and somewhat reduced end of the closure E, so that when the latter is removed the bag F is removed with it, and consequently withdrawn from the casing A.

When the casing A is empty of ink, it is only necessary for the user to blow air through the passage E' into the collapsed bag F, so as to expand the same laterally, and thereby fill the interior of the casing A, as plainly indicated in Figs. 1 and 3, whereby the air contained in the casing A is driven out of the casing by way of the pen and feed-section B. When this has been done, the user after closing the outer end of the air-passage E' with the finger dips the pen and feed-section into the ink and then removes the finger from the air-passage E', so that the bag F collapses by its own resiliency into the flat position shown, and in doing so forces the air previously drawn into the bag out of the same by way of the air-passage E'. The collapsing of the bag within the casing A causes a vacuum therein, and consequently the ink is readily forced by atmospheric pressure up into the casing A by way of the pen and feed-section B to fill the casing. (See Fig. 2.)

It is expressly understood that in the improved fountain-pen described, and shown in the drawings, the bag F is normally in a collapsed state and the ink within the casing A does not enter the bag, the latter being only in communication with the outer air by way of the air-passage E'.

By the arrangement described a pneumatic device is provided for expelling the air from the casing A when expanding the pneumatic device by blowing air into the same, as above set forth.

The fountain-pen is very simple and durable in construction, can be cheaply manufactured, and is not liable to easily get out of order.

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

1. A fountain-pen comprising a casing forming an ink-chamber and having at one end a pen and feed-section, an apertured closure removably held on the other end of the casing, and an expansible and normally contracted bag in the said casing, said bag being of a length approximately equal to the length of the ink-chamber of the casing and in communication with the said closure, to allow of

expanding the normally contracted bag laterally to practically fill the said chamber and thereby force the air out of the same by way of the said pen and feed-section.

- 5 2. A fountain-pen comprising a casing, a pen and feed-section at one end of the casing, a closure removably held on the other end of the casing and provided with an air-passage, and an expansible and normally contracted
10 and flat bag fitted with its mouth onto the said closure and extending to within a short distance of the feed end of the pen, whereby when air is blown into the bag by way of the air-passage in the closure, the bag will be ex-
15 panded laterally and practically fill the cas-

ing from end to end and thereby force the air out of the same by way of the pen and feed-section, the said bag, on releasing the air by way of the cap, collapsing by its own resiliency into a flat position, whereby the ink will be drawn into the casing by way of the pen and feed-section. 20

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

DARIUS F. GALLAGHER.

Witnesses:

THEO. G. HOSTER,
EVERARD BOLTON MARSHALL.