

N^o 16,665



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Complete Specification Left, 25th May, 1916—Accepted, 12th Oct., 1916

PROVISIONAL SPECIFICATION.

Improvements in or relating to Fountain Pens.

I, CECIL BRISTOW, of 20, St. Germain's Road, Forest Hill, London, Works Manager, do hereby declare the nature of this invention to be as follows:—

This invention relates to fountain pens of the type in which an elastic bag disposed in the holder is adapted to be compressed, said bag being allowed to expand to create a suction whereby ink is drawn into the bag which forms an ink reservoir to the pen.

The object of this invention is to provide an improved pen of this type.

In a pen made in accordance with this invention the bag which is fixed to the nib holder in the usual manner is covered or partially covered with a cylindrical casing, which casing is also fixed to the nib holder or may be detachably connected thereto. A gap is formed in the casing through which pressure can be applied by the thumb or finger to the side of the bag for the purpose of driving the air out of the bag.

The pressure is distributed by a strip of metal or other material extending longitudinally and lying between the bag and the tube.

The strip of metal or other material which I call the presser bar may be vulcanised or otherwise attached to the bag.

The casing is adapted to be slidden into the body part of the holder until the said body part adjoins the nib holder.

The joint between the nib holder and the body part may be made in any known manner and the holder complete or parts of same can be made of vulcanite or any other suitable material.

By this invention is provided a self-filling pen without the necessity of levers, springs, pistons and the like or any external attachments. The life of the bag is prolonged as the bag is protected from the action of the air.

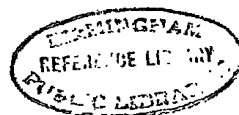
Existing non self-filling pens can mostly by the application of the invention be converted into self-fillers at a small cost.

In use when it is desired to fill the reservoir with ink the body part is entirely removed which leaves the nib holder, and the case containing the bag still a firm holder in the hand, pressure is then applied to the presser bar which forces the air out of the bag, the pen is then placed in the ink and the bag allowed to expand whereby the ink is sucked into the bag or reservoir.

Dated this 25th day of November, 1915.

MEWBURN, ELLIS & PRYOR,
70 & 72, Chancery Lane, London, W.C.,
Chartered Patent Agents.

[Price 6d.]



Bristow's Improvements in or relating to Fountain Pens.

COMPLETE SPECIFICATION.

Improvements in or relating to Fountain Pens.

I, CECIL BRISTOW, of The Chestnuts, Brockley View, Forest Hill, S.E., and late of 20, St. Germain's Road, Forest Hill, London, Works Manager, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to fountain pens of the type in which the barrel extends up to the nib holder and the barrel is tapered or screwed at both ends to receive the cap. The object of this invention is to provide fountain pens of this type with an elastic bag self-filling device and means for converting by this device, pens of this type, which are not self-filling, into self-filling pens.

In the accompanying drawings:—

Fig. 1 is a sectional elevation of one form of pen made in accordance with this invention;

Fig. 2 is an elevation of the pen showing the case removed;

Fig. 3 is a cross section.

In the pen shown in the drawings, the ink is adapted to be drawn into an elastic bag *a* disposed within the barrel *b*. The elastic bag *a* fixed to the nib holder in the usual manner, is covered or partially covered with a cylindrical casing *c*, which casing is also fixed to the nib holder *d* or may be detachably connected thereto. A gap *e* is formed in the casing *c* through which pressure can be applied by the thumb or finger to the sides of the bag *a* for the purpose of driving the air out of the bag.

The pressure is distributed by a strip of metal *f* or other material extending longitudinally and lying between the bag and the tube.

The strip of metal or other material which I call the presser bar may be vulcanised or otherwise attached to the bag.

The casing is adapted to be slidden into the body part *b* of the holder until the said body part adjoins the nib holder.

The joint between the nib holder and the body part may be made in any known manner and the holder complete or parts of same can be made of vulcanite or any other suitable material.

Existing non-self-filling pens having a cap adapted to fit or screw directly on to the tapered ends of the barrel of the pen can mostly by the application of the invention be converted into self-filling at a small cost.

In use when it is desired to fill the reservoir *a* with ink the body part is entirely removed which leaves the nib holder *d* and the case *c* containing the bag still a firm holder in the hand, pressure is then applied to the presser bar *f* which forces the air out of the bag, the pen is then placed in the ink and the bag allowed to expand whereby the ink is sucked into the bag or reservoir.

I am aware that self-filling fountain pens have been constructed with elastic bags disposed on the nib holder and adapted to be compressed through a gap in the holder or casing in which the bag is disposed, which gap is adapted to be covered or exposed, but such pens as have hitherto been designed have not been provided with a barrel adapted to receive the cap at each end, nor are the devices as hitherto constructed adaptable to ordinary fountain pens to convert them to self-filling fountain pens.

Having now particularly described and ascertained the nature of my said

Bristow's Improvements in or relating to Fountain Pens.

invention and in what manner the same is to be performed, I declare that what I claim is:—

- 5 1. A fountain pen of the type described, provided with an elastic bag filling device disposed in a casing provided with an aperture through which pressure can be applied to the bag to compress it, said bag being allowed to expand to make a suction, whereby ink is drawn into the bag which forms a reservoir to the pen, the casing being enclosed by the barrel which has to be removed to uncover the aperture in the casing.
- 10 2. Means for converting ordinary fountain pens to self-filling fountain pens, substantially as described.
3. The fountain pen constructed, arranged and adapted to operate substantially as described.

Dated this 25th day of May, 1916.

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MEWBURN, ELLIS & PRYOR,
70 & 72, Chancery Lane, London, W.C.,
Chartered Patent Agents.

[This Drawing is a reproduction of the Original on a reduced scale.]

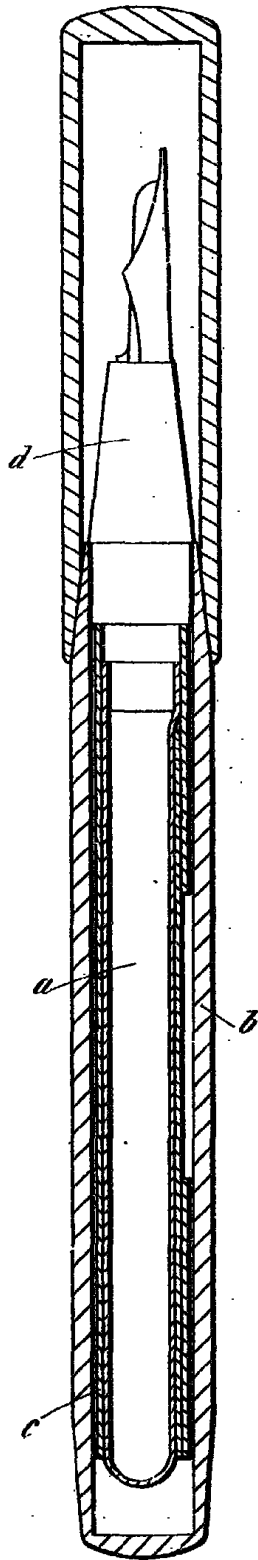


Fig. 1.

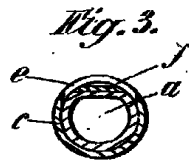


Fig. 3.

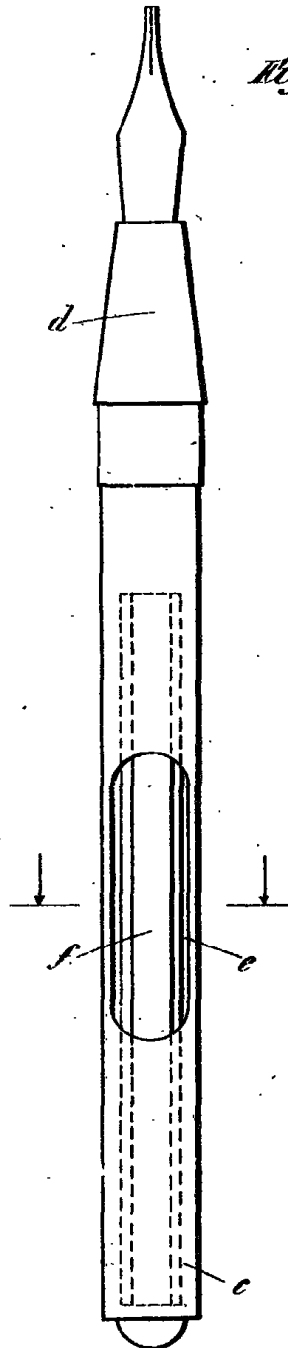


Fig. 2.

