

PATENT SPECIFICATION

263,341

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PROVISIONAL SPECIFICATION.

Improvements in or relating to Fountain or Reservoir Pens.

I, WILLIAM LIVSEY (British), of 13, Groveland Road, Wallasey, in the County of Chester, do hereby declare the nature of this invention to be as follows:—

This invention relates to fountain or reservoir pens of the sac self-filling type in which the sac-actuating presser bar is operated by a spring element or elements which is or are caused to flex or buckle when depressed by a knob, or the like, provided at the rear of the pen.

Heretofore such spring elements have abutted against an extended portion of the nib section or carrier, it being therefore necessary for such section to be screwed into position, as otherwise it would be liable to become displaced during the sac-actuating operation.

The rotation of the sac associated with the screwing in of the said section or carrier tends to twist the sac, and sometimes the same tears on the presser bar thereby rendering the pen temporarily useless.

My invention is characterised by the provision on the bore of the body or barrel of the pen and at or near the nib end thereof, of an annular lip or flange against which the end of the aforementioned spring element is adapted to

abut, the necessity for screwing in the nib section being thereby obviated.

A feature of my invention is that a larger diameter sac may be used with the same size barrel, than heretofore.

According to one mode of carrying out my invention, the bore of a pen barrel is slightly increased from the rear end, except for that portion which is to house the nib section, an annular lip or flange being thereby formed on said bore. The rear end of the barrel is then internally screw threaded, a suitable end inserted and the nib section with the sac attached thereto is fitted.

The sac actuating elements preferably mounted on a screwed plug or collar adapted to be received by the tapped rear end of the barrel are inserted and the plug or collar screwed home when the front end of the spring element abuts against said annular lip or flange.

If preferred, the rear end of the barrel may be as customary and the sac actuating members inserted from the nib end before the section carrying the sac is positioned.

Dated this 15th day of February, 1926.

JOHN HINDLEY WALKER,
139, Dale Street, Liverpool,
Applicant's Patent Agent.

COMPLETE SPECIFICATION.

Improvements in or relating to Fountain or Reservoir Pens.

I, WILLIAM LIVSEY (British), of 13, Groveland Road, Wallasey, in the County of Chester, 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 sac self-filling

[Price 1/-]

fountain or reservoir pens of the type in which a sac-actuating presser bar is operated by a spring element which is caused to flex or buckle when depressed by a knob, or the like, provided at the rear of the pen.

Heretofore, in a pen of the type referred to, the spring presser-bar-

actuating element has abutted against a portion of the pen nib carrier or section, it being therefore necessary for such section to be screwed into position, as otherwise it would be liable to become displaced during the sac-actuating operation.

In the rotation of a sac associated with a screwed-in nib carrier or section there is a tendency for said sac to become twisted, and sometimes the sac is torn by the presser bar.

My invention is characterised by the provision in the bore of the pen body or barrel, and at or near the nib end thereof, of an annular lip, ledge, or shoulder, against which the lower or inner end of the spring presser-bar-actuating element is adapted to abut; and the sac-carrying nib-section is secured in the barrel with a push-in or friction fit and is preferably provided with an inclined or bevelled portion adapted to guide the lower or inner end of said spring presser-bar-actuating element on to said lip, ledge or shoulder of the body or barrel.

I will further describe my invention with the aid of the accompanying sheet of explanatory drawings which illustrate, by way of example only, a preferred mode of carrying my invention into effect.

In said drawings:—

Figs. 1 and 2 are longitudinal sections of a sac self-filling pen showing the presser-bar-actuating element in its inoperative and operative positions of use, respectively.

Fig. 3 is a fragmentary section, drawn to an enlarged scale, of a portion of the pen illustrated in Fig. 1.

a indicates the pen body or barrel, portion *b* of the bore whereof is of larger diameter than the bore portion *b*¹ in which the nib section *c* holds with a push-in or friction fit, and an internal annular lip, ledge, or shoulder *d* is created through the enlargement of the diameter of the bore.

The rear end of body or barrel *a* is internally screw-threaded and a collar *e* is, in part, screwed therein.

Disposed within barrel *a* is an elastic ink sac *f* the lower open end whereof is secured to the nib section *c*, and *g* is a presser bar secured to a spring strip *h* the lower or inner end whereof rests on said annular lip, ledge, or shoulder *d* of the barrel *a*, whilst the upper or outer end of said spring strip *h* extends through said collar *e* and is provided with a knob or button *j* by pressing which the steel strip *h* is flexed or buckled and the presser bar *g* caused to compress the sac *f* in the filling operation. An inclined or bevelled portion *c*¹ formed on nib section *c* guides the lower end of steel strip *h* on to the ledge *d*.

Said knob or button *j* is normally covered by means of a cap *k* which is screwed on to the protruding end of said collar *e*.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. In a sac self-filling fountain or reservoir pen of the type herein described, the provision within the pen body or barrel and near the nib end thereof, of an annular lip, ledge, or shoulder against which the lower or inner end of the spring presser-bar-actuating element rests.

2. In a sac self-filling fountain or reservoir pen of the type herein described, a sac carrying nib-section having an inclined or bevelled portion, for the purpose specified.

3. A fountain or reservoir pen as claimed in either of the preceding claims, in which pen the sac-carrying nib section fits in the body or barrel with a push-in or friction fit.

4. A self-filling fountain or reservoir pen, substantially as hereinbefore described and illustrated in the accompanying drawings.

Dated this 15th day of November, 1926.

JOHN HINDLEY WALKER,
139, Dale Street, Liverpool,
Applicant's Patent Agent.

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

Fig. 1.

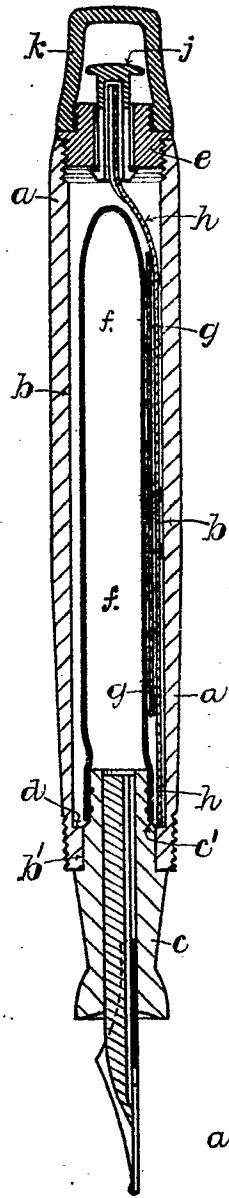


Fig. 2.

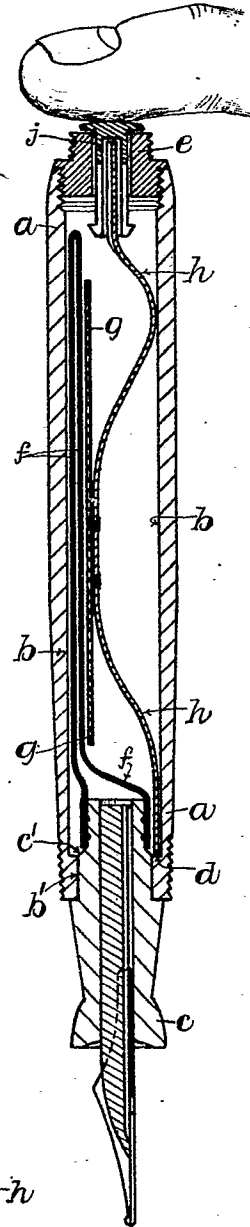


Fig. 3.

