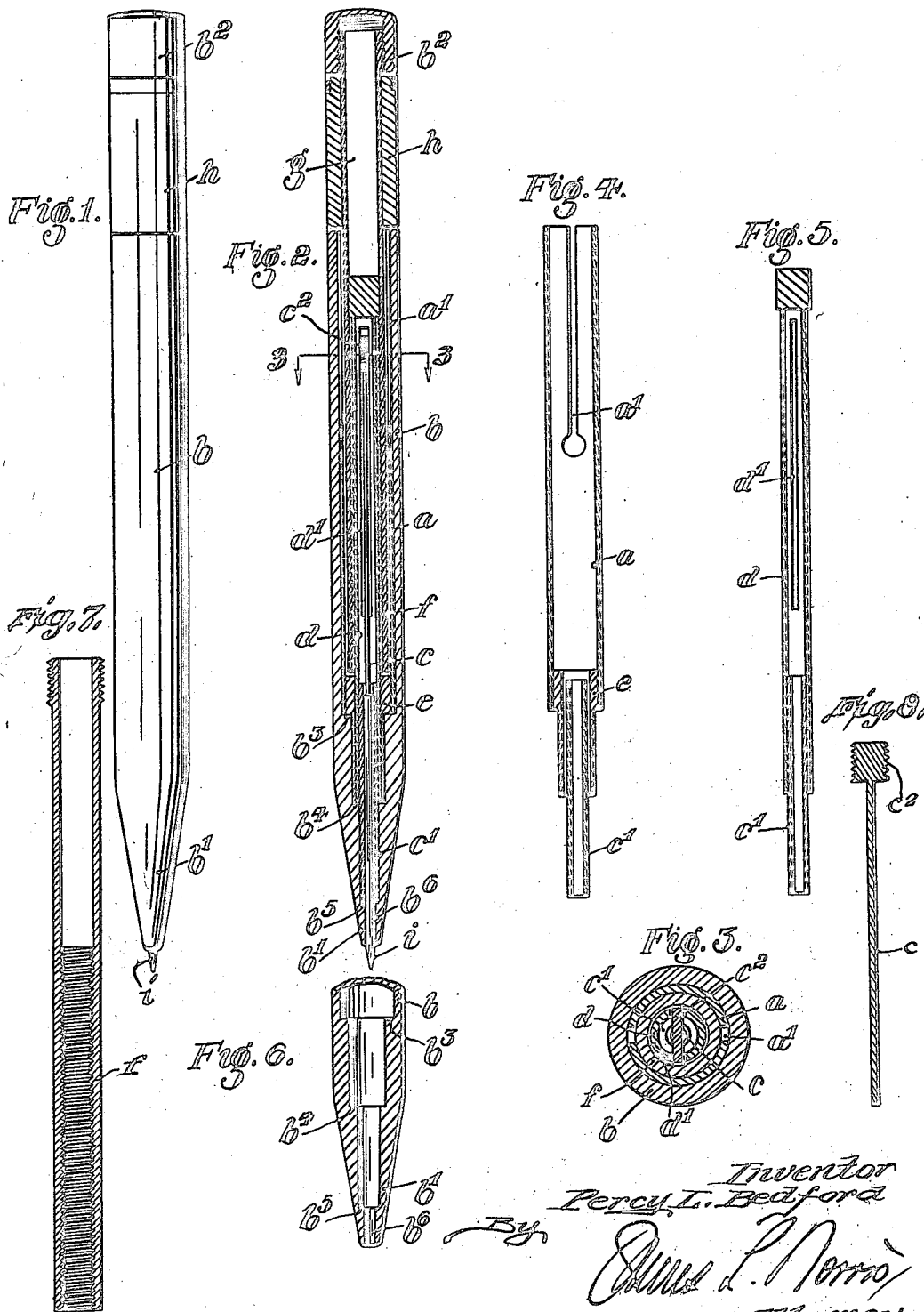


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 PENCIL HOLDER OR CASE.
 APPLICATION FILED APR. 12, 1921.

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UNITED STATES PATENT OFFICE.

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PENCIL HOLDER OR CASE.

Application filed April 12, 1921. Serial No. 460,614.

To all whom it may concern:

Be it known that I, PERCY LEONARD BEDFORD, a subject of the King of Great Britain and Ireland, residing at London, county of Middlesex, England, have invented new and useful Improvements in Pencil Holders or Cases, of which the following is a specification.

This invention relates to that kind of pencil-holder or pencil-case known as "Ever-pointed" or of similar name.

In certain of these holders or cases, as at present constructed, there is always great risk of breaking the lead when fitting on the outer sheath or case, as the lead merely resting by its butt end on the propelling rod projects, for practically its entire length, beyond such rod, and it is while the lead is in this position that the outer sheath or casing has to be fitted on. This fitting on has to be done with great nicety, so as to avoid risk of breaking the lead, which is slender and very frail. Furthermore, in pencil-holders or cases of this kind, the lead is seldom or never steady, and therefore by wobbling, when in use, occasions much inconvenience to the user of the instrument.

Now, the object of this invention is so to construct these instruments as to avoid all risk of breaking the lead when fitting on the outer sheath or tubular cover, and also to render the lead, when inserted in the holder, and in use, free from wobble, the construction being such that the outer sheath or cover can be fitted on when the lead is entirely retracted, or nearly so, within the tube carrying the propelling "action".

And in order that the invention may be clearly understood I will now describe it fully with reference to the accompanying drawings wherein—

Fig. 1 is an elevation of the pencil-holder in its complete form.

Fig. 2 is a longitudinal section of the same.

Fig. 3 is a transverse section taken on the line 3—3 of Fig. 2 but to a larger scale.

Fig. 4 is a detached view, in longitudinal section, of one of the tubes of the holder, that hereinafter called "grip" tube.

Fig. 5 is also a detached view, in longitudinal section, of the double slotted tube in which the propeller works.

Fig. 6 is a detail view, in longitudinal section, showing the internal construction of the "point" of the holder.

In carrying out my invention, I employ a tube *a* which I call a "grip" tube, and which is adapted to fit tightly, by frictional contact, within the outer sheath or tubular cover *b*; and this tube is slotted at *a*¹ (see Fig. 4) to form a spring so that it can be adjusted, when necessary, to take up wear. The tube *a* is further fitted with the usual pencil-case "action" comprising a stationary longitudinally slotted tube *d*, a longitudinally movable threaded nut *c*², to which the propeller *e* is attached, and an internally threaded revoluble tube *f* for operating the propeller *e* to advance the lead, and said tube is connected by suitable means as by soldering to the stationary tube *d* of the "action", by means of a tube *e* of lesser diameter.

The usual and well-known internally threaded tube *f* of the "action", along which the propeller *e* travels, is extended to form the reservoir barrel *g* (for spare leads) which is provided with a screw cap *b*², and this barrel is also provided with a mount *h* (although a knurled ring may be employed) fixed to the barrel *g* for operating the "action" to propel or advance the lead *i* which is inserted in the conductor or guide-tube *c*¹ fixed to the stationary tube *d*, which is soldered in to the connecting tube *e*, and which lead is retracted into the body of the holder prior to fitting on the outer sheath *b*. The propeller is, as usual, fitted into the tube *d*, slotted at *d*¹ on both its sides and through which slots the screw or nut *c*², on the inner end of the propeller, projects to engage the threads of the tube *f*.

Where a very quick action is desired to propel the lead, the usual and well-known spirally slotted tube would be substituted for the threaded tube *f*.

The said tubes being thus arranged, the stationary tube *d*, and the connecting tube *e* project beyond the "grip" tube *a*, as shown in Fig. 2, and form a series of steps, the purpose of which is hereinafter mentioned.

The outer sheath or tubular cover *b* is, according to my invention, made in a single piece with the body of the holder, and is tapered off at its outer end, as shown, to form the "point" *b*¹, and so avoid the use

of a separate piece or screwed-on "point", as is now the case and which is liable to work loose and fall off. This point b^1 is further fashioned internally with a series of stepped recesses b^3, b^4, b^5 , forming a bearing or bearings for the projecting portions of the stationary tube d and connecting tube e , the final recess b^5 , at the "point" end, being formed, internally, with straight walls b^6 for the purpose of tightly enclosing the lead and ensuring for it a steady and central guide, so preventing wobble.

In order to insert a lead into the holder, the outer sheath b , is withdrawn, and the mount h (or it may be the knurled ring) is then rotated to the left, so retiring the propeller rod c . The lead is then inserted into the conducting or guide tube c^1 , and the sheath is replaced. To propel the lead, the mount h is rotated to the right, so causing the internally threaded tube f of the "action" to revolve, and the nut c^2 to advance to propel the lead outwards, the lead, as propelled, passing through the conducting or guide tubes c^1 .

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

1. In a pencil holder or case of the kind referred to, a detachable sheath and means for safely holding a lead while fitting on the sheath, said means comprising a conductor or guide tube to receive the lead, outer and fixed tubes fitting over said guide tube comprising with a plunger and a plunger head the "action" of the holder, and a slotted grip tube enclosing said tubes, all of said members being enclosed in said sheath.

2. In a pencil-holder or case of the kind mentioned, a slotted tube forming a "grip" tube, a stationary tube within said "grip" tube, a pencil-case "action" associated with said stationary tube, and a detachable outer sheath or cover tube fitting over the "grip"

tube, the slot in the "grip" tube permitting a spring to take up wear.

3. In a pencil holder or case of the class specified, the combination of a slotted tube forming a grip tube, a pencil case action having a stationary tube secured within said grip tube, a rotatable internally threaded tube, a reservoir barrel for spare leads formed as an extension of the internally threaded tube, a lead propelling device which has a member cooperating with the threaded tube, a mount on said barrel for advancing the said propeller and its lead, and a detachable outer sheath fitting over the slotted grip tube and held in close contact therewith by friction.

4. In a pencil-holder or case of the kind mentioned, the combination of a slotted "grip" tube, a stationary tube associated with other elements of a pencil-case "action", and a connecting tube within the stationary tube, the said stationary and connecting tubes projecting beyond the "grip" tube and forming a series of external steps, and a sheath having internal steps cooperating with said external steps.

5. In a pencil-holder or case of the kind mentioned, a detachable sheath or outer tubular cover having its body portion and its "point" formed in a single piece, action mechanism one element of which comprises stationary and connecting tubes externally stepped, said "point" being fashioned internally with a series of stepped recesses corresponding with the steps formed by the stationary and connecting tubes of the "action", and adapted to constitute a bearing or bearings for said tubes.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

PERCY LEONARD BEDFORD.

Witnesses:

ERNEST DE PASS,
GEO. E. EMMETT.