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1,533,087

G. L. BASSETT

MAGAZINE PENCIL

Filed March 26, 1923

Fig 1

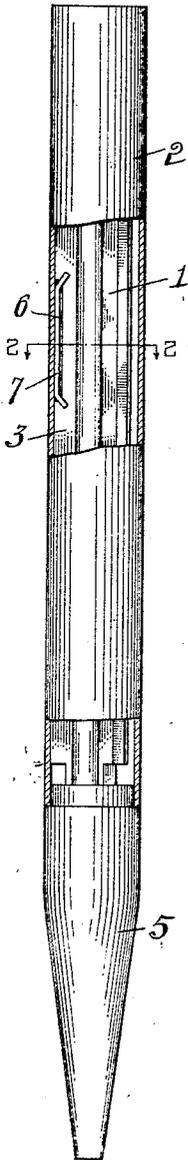


Fig 2

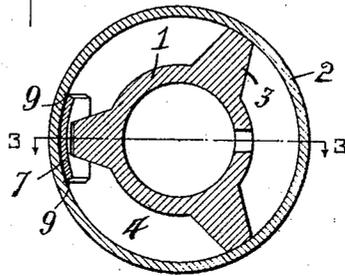


Fig 3

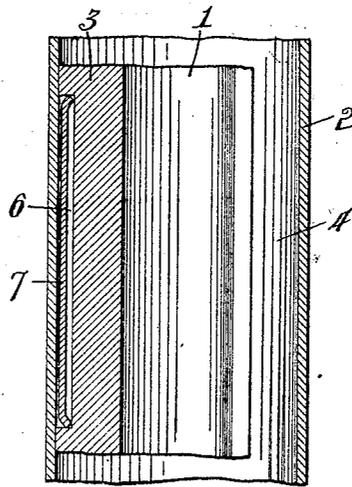


Fig 4

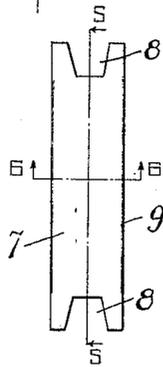


Fig 5

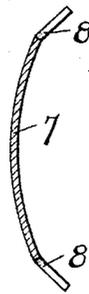
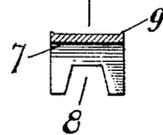


Fig 6



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UNITED STATES PATENT OFFICE.

GERALD L. BASSETT, OF TOLEDO, OHIO, ASSIGNOR TO THE CONKLIN PEN MANUFACTURING COMPANY, OF TOLEDO, OHIO, A CORPORATION OF OHIO.

MAGAZINE PENCIL.

Application filed March 26, 1923. Serial No. 627,555.

To all whom it may concern:

Be it known that I, GERALD L. BASSETT, a citizen of the United States, and a resident of Toledo, in the county of Lucas and State of Ohio, have invented a new and useful Magazine Pencil, which invention is fully set forth in the following specification.

This invention relates particularly to pencils of the magazine type wherein a fluted tube, forming part of the lead actuating means of the pencil, is disposed within the barrel member of the pencil and fixed thereto for turning movements therewith relative to other parts of the pencil, and preferably in a manner to facilitate separation for substitution or repair.

The object of the invention is the provision of simple, efficient and economical means for frictionally retaining the fluted tube member and barrel in assembled relation and permitting an easy separation thereof when desired.

The invention is fully described in the following specification, and while in its broader aspect it is capable of different forms, a preferred embodiment thereof is illustrated in the accompanying drawing, in which,—

Fig. 1 is a side elevation of a portion of a pencil embodying the invention, with parts broken away. Fig. 2 is an enlarged cross-section on the line 2—2 in Fig. 1. Fig. 3 is an enlarged longitudinal section of the portion of the pencil embodying the securing means. Fig. 4 is a plan view of the securing spring, and Figs. 5 and 6 are sections taken on the lines 5—5 and 6—6 respectively, in Fig. 4.

Referring to the drawings, 1 designates the outer longitudinally slotted tube member of the lead actuating mechanism of the pencil, and 2 the pencil barrel which telescopes over the tube and is centrally spaced therefrom by longitudinally extending ribs or flutes 3 on the tube to form a plurality of lead storing pockets 4 between the tube and barrel. The tube and barrel are intended to be fixedly connected to turn together relative to a member 5, in the present instance, forming the tip of the pencil, which member is connected to another part

of the lead actuating mechanism, as well understood in the art, whereby a relative turning of said member and barrel effects an actuation of the lead.

The invention consists in providing the outer edge of one of the ribs or flutes 3 of the tube 1 with a prolonged incut or notch 6 in which a spring member 7 is disposed, and which normally has a portion projecting beyond the outer edge of the associated rib 3 for engagement with the barrel wall to firmly retain the barrel and tube in assembled relation.

The spring member 7 is made in elongated form of thin spring metal and has each end provided with a notch 8 for straddling the base and end walls of the notch 6 when seated in the notch, as illustrated. The spring is bowed to an extent sufficient to place its central portion without the notch 6 when the spring is seated in such notch, so that the barrel 2 in being forced over the flutes 3 of the tube 1 passes over and causes a compression or inward springing of the outwardly bowed engaged portion of the spring member, as shown in Figs 1 and 3. It is evident that the spring exerts considerable frictional resistance on the barrel to prevent its withdrawal from the tube and also quite effectually locks the barrel and tube together to cause them to turn in unison. This locking action is facilitated by burring or so stamping the spring members that a slight outwardly turned edge burr or flange 9 is formed on the side edges of the spring for cutting into the barrel wall as it is forced thereover, as illustrated in a somewhat exaggerated manner, in Fig. 2. With this arrangement it is evident that the spring member is locked against turning relative to the tube by reason of the notched engagement of the spring ends to the rib and that the barrel and edge portions of the spring are interengaged to prevent relative turning movements thereof. The spring member 7 is normally flat in cross-section and is given a slight transverse bow by the engagement of the barrel therewith. It is found in practice that this means of securing the barrel and fluted tube member together is very efficient and enables a rapid and easy assembling of the parts and also

an easy separation thereof for repair, substitution or inspection of the lead actuating mechanism.

5 I wish it understood that my invention is not limited to any specific construction, arrangement or form of the parts, as it is capable of embodiment in numerous forms without departing from the spirit of the claims.

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

1. In a pencil of the class described, a longitudinally fluted tube, a barrel mounted
15 over the tube, said tube having a notch in the outer edge of one of its flutes, and a bowed spring member mounted in the notch and having its ends notched to straddle portions of the flute, the convexed side of the
20 spring being disposed outward and coact-

ing with the barrel wall to firmly connect the barrel and tube to resist relative rotary and longitudinal movements thereof.

2. In a pencil of the class described, a longitudinally fluted tube having a notch in
25 the outer edge of one of its flutes, a barrel telescoped over the tube, and a bowed spring member seated in the notch and having its convexed side normally projecting beyond the outer ends of the notched flute and en-
30 gaging the barrel wall to resist relative rotary and longitudinal movements of the barrel and tube, the side edges of the spring member being bowed to cut into the barrel wall when the barrel is forced longitudinally
35 over the tube.

In testimony whereof I have hereunto subscribed my name to this specification.

GERALD L. BASSETT.