No. 866,350. PATENTED SEPT. 17, 1907.

W. C. FOWLER.

PENCIL.

APPLICATION FILED MAY 27, 1907.

Fig. 1.

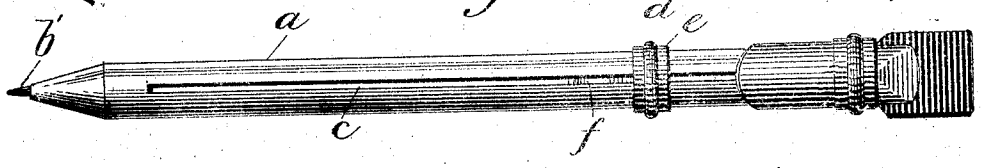


Fig. 2.

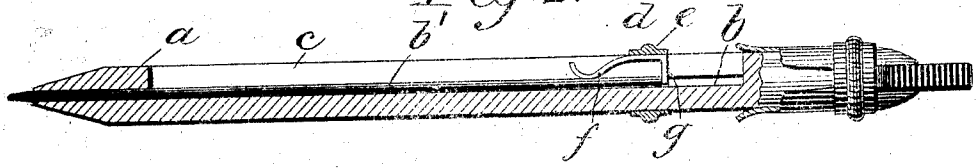


Fig. 3.

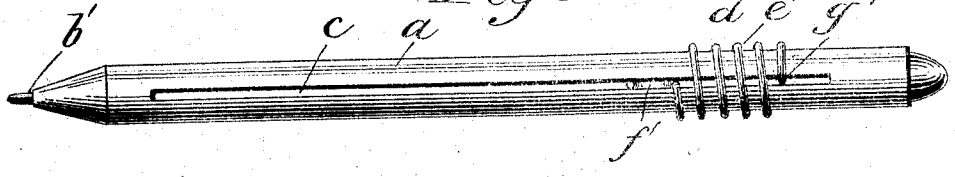


Fig. 4.

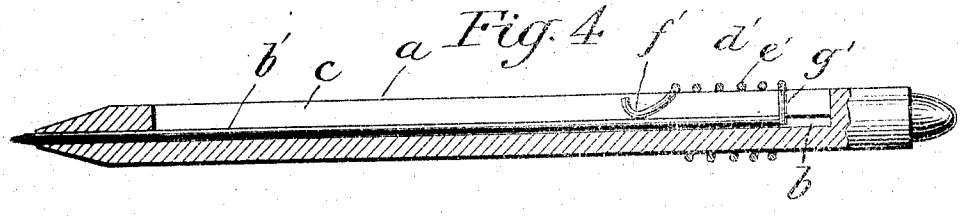
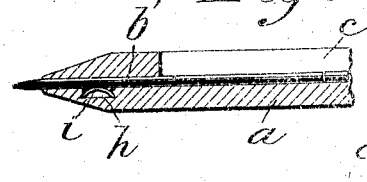


Fig. 5.



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UNITED STATES PATENT OFFICE.

WALTER C. FOWLER, OF TRENTON, NEW JERSEY.

PENCIL.

No. 866,350. Specification of Letters Patent. Patented Sept. 17, 1907.

Application filed May 27, 1907. Serial No. 375,863.

To all whom it may concern:

Be it known that I, WALTER C. FOWLER, a citizen of the United States, residing at 112 Bridge street, in the city of Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Pencils; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of the invention is to provide a simple, cheap and efficient form of pencil in which the lead or writing element may be fed forward as it becomes worn down and renewed after it is exhausted.

Broadly stated, the invention comprises a body portion, conveniently made of wood or similar material, generally cylindrical in shape, having a longitudinal bore and a slot opening into said bore for the greater portion of the length thereof, a lead loosely mounted in said bore and a spring clip entering the slot and engaging the lead to adjust the same longitudinally in the bore and hold the same in adjusted position. As a subsidiary element, to enable short lengths of lead to be employed in the body or holder, I provide the latter with a spring clip located in a recess near the point and adapted to bear laterally on the forward section of lead to hold the same in adjusted position, as it is fed forward by the succeeding sections or by the feeding clip.

In the accompanying drawings Figure 1 is a plan view of the pencil embodying the invention; Fig. 2 is a longitudinal section; Fig. 3 is a plan view showing a modified form of feeding and holding clip; Fig. 4 is a longitudinal section of Fig. 3; Fig. 5 is a longitudinal section of the point end of the pencil showing the auxiliary clip to adapt the pencil holder for short sections of lead.

Referring to the drawings, *a* indicates the body of the pencil which may be of any of the usual shapes or contours and may be conveniently made of wood or other suitable material. The body *a* is provided with a longitudinal bore or perforation *b*, which is adapted to receive a strip or section of lead or other writing element *b'*, which fits loosely in the bore *b* and is adapted to be moved freely backward and forward therein.

Running longitudinally of the pencil body *a* for the greater portion of its length is a slot *c* which opens into the bore *b* and provides a channel or guide for a spring clip, which serves to hold the lead in position in the bore, and, also, to move the lead longitudinally of the bore to cause a sufficient length of said lead to project beyond the point of the pencil for writing.

The spring clip which is designated *d*, in the form of the invention illustrated in Figs. 1 and 2, consists of an angular piece of spring metal, having a forward tongue *f* and a rearward downwardly extending heel *g*, the whole secured to a slide ring *e*, which encircles the pencil body. The spring element normally lies within slot *c*, so that the spring tongue *f* engages the lead laterally and the heel *g* engages the rear end of the lead which is fed forward by moving the slide ring *e*, and is held firmly clamped in position in the bore by the spring tongue *f*.

In the modified form of the invention illustrated in Figs. 3 and 4, the spring clip is conveniently made in the form of a helix from spring wire or the like, the main portion *e'* of which encircles the body of the pencil and forms the slide by means of which the clip is adjusted. The forward end of the helix is provided with a spring tongue *f'*, which passes through the slot and engages the lead laterally. The rear end of the helix is turned downward through the slot to form a heel *g'*, engaging the rear end of the lead, so that as the clip *d'* is moved forward, the lead is fed along the bore by the heel *g'* and is clamped in position by the spring tongue *f'*.

When it is found desirable to use short sections of lead I prefer to provide an auxiliary device for holding the forward short sections in the pencil body in proper adjusted position. This device consists of a light leaf spring *i*, mounted in a recess *h*, located near the point of the pencil and opening into the bore *b* so as to permit the spring *i* to bear laterally upon the forward section of lead and hold it rigidly in position, without interfering with the proper feeding of the lead when the feeding clip is adjusted.

What I claim is:

1. A pencil, comprising a body having a longitudinal bore and a slot opening therein, a lead loosely mounted in said bore and a clip having an intermediate portion encircling the pencil body, a forward end portion constituting a spring tongue to engage the lead laterally and hold the same in the bore, and an angular heel portion to engage the end of the lead and move said lead longitudinally in the bore.

2. A pencil, comprising a body having a longitudinal bore and a slot opening therein, a lead loosely mounted in said bore and a clip consisting of a ring slidably mounted on the pencil body having an angular piece of metal secured thereto entering the slot provided with a spring tongue at one end to exert lateral pressure on the lead and an angular heel on the other to move the lead in the bore.

In testimony whereof I affix my signature, in presence of two witnesses.

WALTER C. FOWLER.

Witnesses:
J. FRANK FOWLER,
CHARLES HOLTZ.