R. L. HAWKINS.

PROPELLING PENCIL AND THE LIKE.

APPLICATION FILED NOV. 22, 1919.

1,357,980. **Patented Nov. 9, 1920.**

Fig. 1.

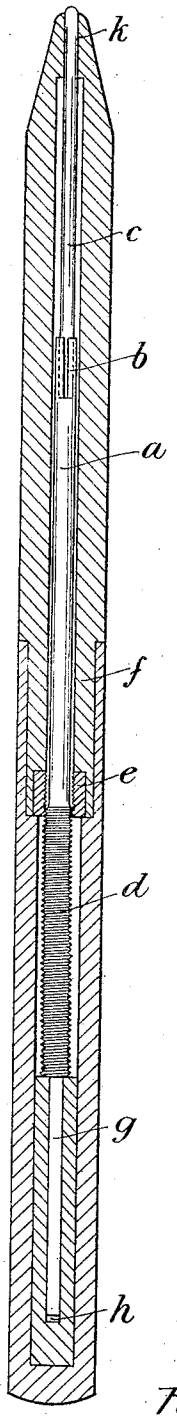


Fig. 2.



Fig. 3

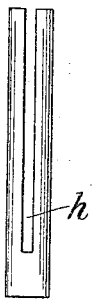


Fig. 4



INVENTOR:
RICHARD L. HAWKINS
By Wm Wallace White
ATTY.

UNITED STATES PATENT OFFICE.

RICHARD LEONARD HAWKINS, OF NEASDEN, LONDON, ENGLAND.

PROPELLING-PENCIL AND THE LIKE.

1,357,980. Specification of Letters Patent. Patented Nov. 9, 1920.

Application filed November 22, 1919. Serial No. 339,997.

To all whom it may concern:

Be it known that I, RICHARD LEONARD HAWKINS, Britannia Pencil Works, Neasden Lane, Neasden, London, N. W. 10, England, a subject of the King of Great Britain and Ireland, have invented certain new and useful Improvements in or Relating to Propelling-Pencils and the like, of which the following is a specification.

This invention relates to propelling pencils and the like. The object of this invention is to provide a propelling pencil in which the mechanism can be readily removed and inspected.

A pencil made in accordance with this invention comprises a casing or holder and a lead holder formed with a thread adapted to engage with a nut in the holder and a means for rotating the holder.

Referring to the drawings filed herewith:—

Figure 1 is a section of one form of pencil made in accordance with this invention;

Fig. 2 is an elevation of the lead holder;

Fig. 3 is an elevation of the grooved part engaging the extension of the lead holder, and Fig. 4 is an end view thereof.

The lead holder *a* is provided with a slotted end *b* adapted to receive the lead *c* and has a threaded portion *d* adapted to engage a nut *e* in the forward part *f* of the case, the lead holder *a* is provided with an extension *g* adapted to engage a groove *h* in the rear part *j* of the casing so as to be rotated thereby.

The rear part *j* of the casing is adapted to fit over the end of the forward part *f* of the casing. The hole *k* in the forward part of the casing is just large enough to allow the lead to pass through and not large enough for the lead holder to pass.

The extension *g* is preferably slightly shorter than the screwed portion *d* of the holder and the slot *h* is practically the same length as the extension *g* so that when the holder contains a new lead the point of which is retracted to within the pencil the forward end of the screwed part just remains in the nut *e*. When the rear part of the casing is rotated with respect to the forward part and the lead is propelled forward until the extension *g* leaves the slot *h* further rotation of one part of the casing with respect to the other part cannot propel the lead holder any farther, therefore no parts can be strained by such rotation.

With a pencil made in accordance with this invention the lead can be propelled and retracted and the mechanism can be readily taken apart and the lead removed and replaced.

As the lead fits the orifice through which it passes there is no tendency for the lead to wabble in the holder.

The relative proportions of the parts are designed so that the orifice through which the lead passes or other parts of the pencil cannot be damaged or strained by the lead holder being propelled so far forward as to bring its forward end against the forward part of the hole in the casing.

What I claim and desire to secure by Letters Patent is:—

A propelling pencil, comprising a casing formed of two tubular members, one extending into the other and rotatable relatively thereto, one of said members being provided at one end with an aperture for the passage of a lead and at its opposite end a nut, the other member of the casing being provided with a transverse slot extending longitudinally thereof and having a closed end, a lead holder slotted at one end to receive and hold a lead, the holder being provided at its opposite end with a rectangular portion of the same length as said slot and adapted to engage the same thereby to cause rotation of the holder with the member carrying said slot, the holder being also provided adjacent to said rectangular portion with a threaded portion for engagement with said nut, the rectangular portion being shorter than the threaded portion thereby to cause complete disengagement of the holder from the slot during rotation of the casing members relatively to each other, while the threaded portions remain in engagement with the nut.

In testimony whereof I have signed my name to this specification.

RICHARD LEONARD HAWKINS.