

# PATENT SPECIFICATION

283,677

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## PROVISIONAL SPECIFICATION.

### Improvements in Propelling Pencils.

We, ALFRED FINBURGH, ALEXANDER FINBURGH, and DAVID FINBURGH, all British subjects, trading in co-partnership as THE WYVERN PEN COMPANY, of Wood-boy Street, Leicester, do hereby declare the nature of this invention to be as follows:—

10 This invention relates to pencils of the propelling type wherein the lead is projected for use by a screw action.

15 In pencils of this kind as heretofore constructed, the projection and withdrawal of the lead has been effected by an endwise movement of the lead carrier within the holder, that is to say, the lead carrier has been moved by the screw action to project and withdraw the lead through the guard or cover at the pointed or writing end of the pencil.

20 The necessary provision of propelling mechanism in the holder has kept the cost of these pencils undesirably high and the object of the present invention is to provide a simpler and much less costly construction by which a substantially similar propelling effect can be obtained.

30 According to the invention the lead carrier is stationary in the holder of the pencil and the guard or cover through which the lead is projected for use is made to screw within or upon the holder.

35 Essentially the improved pencil comprises two parts, one having the lead carrier fixed therein and the other constituting a tapered, conical or like guard through which the lead is projected, the said two parts being capable of endwise movement effected by a relative rotary screw action to bring about projection and withdrawal of the lead through the end of the guard part. The lead carrier may

be movable from the holder or part in which it is arranged and/or it may be adjustable therein.

45 According to a convenient embodiment of the invention, the holder or part which is furnished with the lead carrier is bored and internally screw-threaded to receive the tapered or conical guard member which latter screws into the aforesaid screw-threaded bore and has a longitudinal central hole. The lead carrier which may consist of a metal tube or a socket or other suitable element is fixed centrally in the holder or part so that the lead passes through the hole in the guard member. By turning the holder and guard member in opposite directions or by turning one relatively to the other, the guard member is screwed in and out to expose and cover the lead.

50 The guard member may be slit longitudinally in known manner to provide for expansion at its small end for passage of the lead therethrough.

55 The improved pencil may be combined with a fountain pen in which case the holder or part which carries the lead may be applied to or be constituted by the barrel of the pen: i.e. the pencil may be located at the opposite end to the nib or writing point, or it may be applied to or be constituted by the cap of the pen.

60 The details of construction may be varied without departing from the scope of the invention.

Dated this 28th day of October, 1926.  
E. N. LEWIS & TAYLOR,  
Chartered Patent Agents,  
Berridge Street Chambers, Leicester,  
Agents for the Applicants.

## COMPLETE SPECIFICATION.

### Improvements in Propelling Pencils.

80 We, ALFRED FINBURGH, ALEXANDER FINBURGH, and DAVID FINBURGH, all British subjects, trading in co-partnership as THE WYVERN PEN COMPANY, of Wood-boy Street, Leicester, do hereby declare the nature of this invention and in what [Price 1/-]

manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

85 This invention relates to pencils of the propelling type wherein the lead is projected for use by a screw action.

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In pencils of this kind as heretofore constructed, the projection and withdrawal of the lead has been effected by an endwise movement of the lead carrier within the holder, that is to say, the lead carrier has been moved by the screw action to project and withdraw the lead through the protector or cover at the pointed or writing end of the pencil.

The necessary provision of propelling mechanism in the holder has kept the cost of these pencils undesirably high and the object of the present invention is to provide a simpler and much less costly construction by which a substantially similar propelling effect can be obtained.

We are aware that, in a propelling pencil of the kind having a rod or the like longitudinally slidable in the holder for projecting the lead to a predetermined extent for use, it has been proposed to effect fine adjustment of the pencil point to compensate for wear, by providing a screwthreaded engagement between the holder and the cap or cover for the lead.

The improved pencil is furnished with a lead carrier inserted in a part of, or fixed within the holder, and a tapered, conical, or like protector through which the lead is projected, the said holder, or the part thereof or therein in which the lead carrier is inserted, being screwthreaded to receive the protector which is correspondingly screwthreaded so that projection and withdrawal of the lead through the end of the protector can be effected by relative rotation of the holder and protector as will be hereinafter described. The lead carrier may be movable from the holder or part in which it is arranged and/or it may be adjustable therein.

In the following further description reference will be made to the accompanying drawings wherein,

Figure 1 is a longitudinal section of one example of the invention with the lead covered.

Figure 2 is a similar view of the same with the lead exposed.

Figures 3 and 4 illustrate modifications.

Figure 5 illustrates the application of the pencil shown in Figure 1 to a fountain pen.

According to the example illustrated in Figures 1 and 2, the pencil comprises a holder 1 bored and furnished with a lead carrier consisting of a split metal tube or socket 2 fixed centrally in a part 3. This part is screw-threaded externally, as shown, the diameter of the screw-threaded portion being less than that of the bore of the holder, so that a space 4 is provided. A pointed protector 5, formed with a longitudinal hole 6 to

accommodate the lead 7 is screwed upon the part 3 and, of course, occupies the space 4 within the holder. The part 3 may be formed separately from the holder (as shown) in which case the larger end thereof may be a push fit in the holder, the said part being thereby frictionally held in position. Obviously some other construction may be adopted.

According to a modification illustrated in Figure 3, the holder 1 has an internally screwed bore 8 and the protector 5 is correspondingly constructed to screw into the bore. The socket or tube 2 is fixed in a central part 9 in the holder, to register with the hole 6 in the protector.

This part which is, of course, made smaller in diameter than the internal diameter of the protector, may be formed integrally with the holder or may be inserted therein in like manner to the part 3 previously described.

In the further modification shown in Figure 4, the holder 1 has an externally screw-threaded neck or end 10 and the protector 5 is internally screw-threaded accordingly. The socket or tube 2 is fixed centrally in the screwed end of the holder to correspond with the hole 6 in the protector. Preferably the holder and protector are substantially uniform in diameter externally, the screwed end being therefore correspondingly reduced.

In each of the aforesaid constructions by turning the holder 1 and the protector 5 in opposite directions, or by turning one relatively to the other, the position of the protector on the holder is correspondingly varied and the lead 7 either covered or exposed; compare, for example, Figures 1 and 2.

If desired, the protector may be slit longitudinally in known manner to provide for expansion at its small end for the passage of the lead therethrough.

The holder 1, part 3 and protector 5 are preferably made of vulcanite though obviously any other suitable material may be used.

If desired, the parts 3 or 9 or the end 10 of the holder may be bored lengthwise throughout to enable a comparatively long piece of lead to be used.

A pencil constructed in accordance with the invention may be combined with a fountain pen. For example, as shown in Figure 5, the pencil may constitute the cap of a fountain pen 11, the holder 1 being designed accordingly. Alternatively the pencil may be located at the opposite end to the nib or writing point in which case the holder may be constituted by the barrel of the pen. It will be understood that any one of the constructions previously described may be

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adopted in such combination. We do not make any broad claim to a pencil holder mounted in the rear end of the barrel or in the cap of a reservoir pen.

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

10 1. A propelling pencil furnished with a lead carrier inserted in an externally screwthreaded part fixed centrally in the holder, and a protector or cover made to screw upon the said part for the purpose  
15 of exposing and covering the lead, substantially as described.

20 2. A propelling pencil comprising a holder internally screw-threaded, a lead carrier inserted in a part fixed centrally in the holder and a protector or cover externally screw-threaded to screw within the holder for the purpose of exposing

and covering the lead, substantially as described.

3. A propelling pencil comprising a holder formed with an externally screw-threaded neck or end in which the lead carrier is fixed, and a protector internally screw-threaded to screw upon the said neck or end for the purpose of exposing  
30 and covering the lead, substantially as described.

4. A propelling pencil constructed substantially as herein described with reference to the accompanying drawing.

Dated this 20th day of July, 1927.

ALFRED FINBURGH,  
ALEXANDER FINBURGH,  
DAVID FINBURGH,

Applicants,

E. N. Lewis & Taylor,  
Chartered Patent Agents,  
Berridge Street, Chambers, Leicester,  
Agents for the Applicants.

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

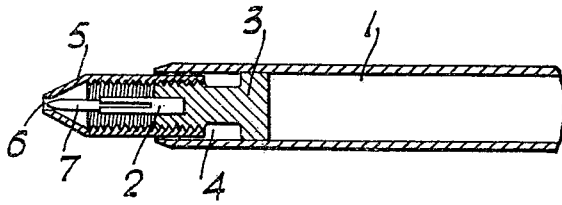


Fig. 1.

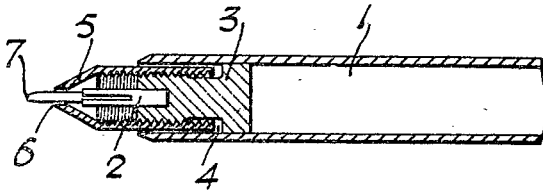


Fig. 2.

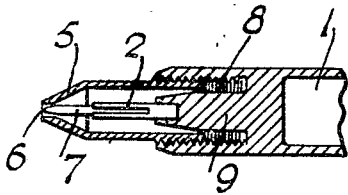


Fig. 3.

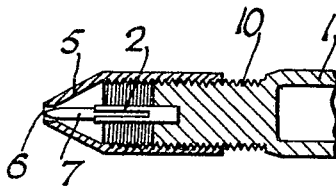


Fig. 4.

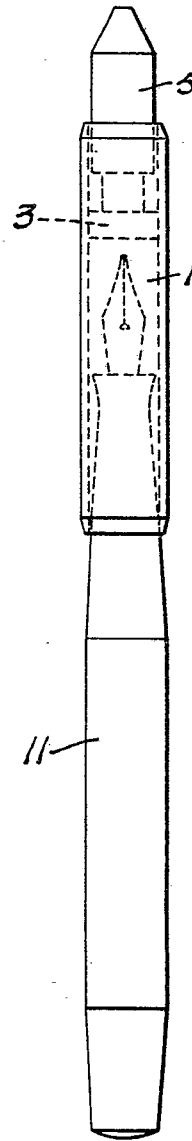


Fig. 5.