PATENT SPECIFICATION

623,792

Convention Date (France): April 15, 1946.

Application Date (in United Kingdom): April 12, 1947. No. 9788/47.

Complete Specification Accepted: May 23, 1949.

Index at acceptance:—Class 146(iii), A5f.

COMPLETE SPECIFICATION

Improved Propelling Pencil

We, A. J. FAGARD & CIE, a French Body Corporate, of 6, Rue Monsigny—Paris, France, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The invention relates to improvements in propelling pencils.

It has already been proposed to provide pencils with a clip integral with the feeding mechanism. In these known embodiments, the clip is rotatably movable with relation to the head portion of the pencil said head portion being slidably movable relatively to the tubular body of the pencil. With such pencils to cause the lead to move forward while holding the pencil, it is necessary to turn the clip; this is inconvenient to do with the same hand which is used for holding the pencil.

Chief object of the invention is the provision of an improved pencil, in which the lead feeding mechanism is connected to the body of the pocket clip, said clip being slidably movable parallel to the body axis and relatively to the head portion of said body, said head portion being stationary with respect to the pencil.

With such pencils, to cause the lead to move forward while holding the pencil in one hand, it is only necessary to exert pressure on the top of the clip; this can easily be done with one hand.

In the accompanying drawings which are given solely by way of example:

Fig. 1 is an external side view of a pencil in accordance with the invention;

Fig. 2 is a fragmentary front view of the embodiment illustrated in Fig. 1;

Fig. 3 is a partial longitudinal sectional view on a larger scale taken along the line 3—3 of Fig. 4;

Fig. 4 is an elevational view, partly in section taken along the line 4—4 of Fig. 3;

Fig. 5 is a transverse section taken along the line 5—5 of Fig. 3.

As may be seen from the embodiment illustrated in the drawings, 1 is the body of the pencil having a head 3 detachably fixed thereto at the upper or rear end by screwing or otherwise, as shown at 2 (fig. 3), whereas in other pencils said head covers the body 1 and is slidably mounted thereon. In the form shown the threaded portion of the body is extended by an ornamented ring 4.

The upper or rear end of the head 3 is, for example, of ogival shape, it is of solid structure and provided with a longitudinal incision 5 having parallel faces opening at the top and laterally of said head at one side. Said incision opens also into a cylindrical cavity of said head. The incision 5 extends preferably at 6 (fig. 3) beyond the solid portion to the tubular portion of the head 3 where said incision opens laterally.

Lengthwise slidable within said incision 5, which allows a minute play, is a flat metallic member 7 forming a clip body having a clip 7*a* formed integrally with or secured to said member.

The clip body 7 is provided on its edge 8 located in the bottom of the incision 5 with a tapped hole 9 for receiving a threaded pin 10. Said pin is integral with or fixed to the bottom of an inner tube 11 slidably mounted inside the head 3. Said tube 11 covers the usual tube 12 forming a lead-reservoir which controls the feed mechanism by means of its longitudinal displacements. Tube 11 bears against tube 12 through a shoulder 13.

As may be seen the connection between the tubes 11 and 12 is arranged so that, through unscrewing at 2, the pencil is divided into two parts: on one hand, the body 1 with its tube 12, on the other hand, the whole head assembly with the device above described.

The clip body preferably has its edge 8

[*Price* 2/-]

provided with a slot 14 for engagement with the bottom 6 of the slot 5 of the head 3 upon completion of the displacement of clip 7*a* towards the tip of the pencil, that is, in the direction of arrow *f* (fig. 3) relatively to the head 3.

Operation is as follows:

Refilling of the lead-storage tube is effected by unscrewing the head section 3. Upon restoring of said head in position, tube 11 will cap the storage-tube 12. Hence, to cause the lead to move forward, while holding the pencil in one hand, it is only necessary to exert pressure in the known manner not on the head 3 but on the clip 7*a* projecting from said head. The forward movement of said clip (7, 7*a*) with respect to the head 3 and the body 1 causes the front end of the storage tube 12 through the medium of tube 11 to move in relation to said body 1 and thus effects the feeding of the lead in the known fashion.

Upon releasing the clip (7, 7*a*) under the action of the usual resilient device the lead-storage tube 12 is returned to the rear thereby restoring tube 11 by means of the shoulder 13 towards the bottom 15 (fig. 4) of the cylindrical cavity of the head section 3 and consequently the clip (7, 7*a*) projecting from said head to its inoperative position.

It will be evident, that in carrying the invention into practice, modifications may be introduced with regard to certain details of construction and shape of the instrument without departing from the scope of the invention as clearly set forth in the appended claims.

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:—

1. An improved propelling pencil in which the lead feeding mechanism is connected to the body of the pocket clip characterised in that said clip is slidably movable parallel to the body axis of the pencil and relatively to the head section of said pencil, said head section being stationary with respect to the body of the pencil.

2. An improved propelling pencil according to claim 1, wherein said clip movably fitted within said head is secured to a movable tube formed with a shoulder and fitted inside said head over the upper end of the lead storage-tube integral with the lead feeding mechanism.

3. An improved propelling pencil according to claims 1 or 2, wherein the head section is screwed or otherwise detachably secured to the body of the pencil.

4. A propelling pencil substantially as herein described and illustrated in the accompanying drawings.

Dated this 12th day of April, 1947.

CRUIKSHANK & FAIRWEATHER,
29, Southampton Buildings, Chancery Lane, London, W.C.2, and
29, St. Vincent Place, Glasgow,
Agents for the Applicants.

Leamington Spa: Printed for His Majesty's Stationery Office, by the Courier Press.—1949.
Published at The Patent Office, 25, Southampton Buildings, London, W.C.2, from which copies, price 2s. 0d. each (inland) 2s. 1d. (abroad) may be obtained.

Fig. 1

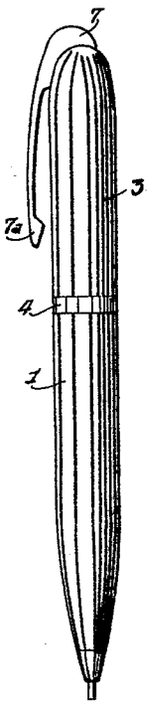


Fig. 2

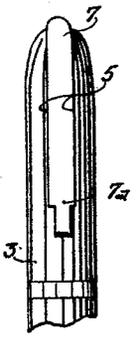


Fig. 3

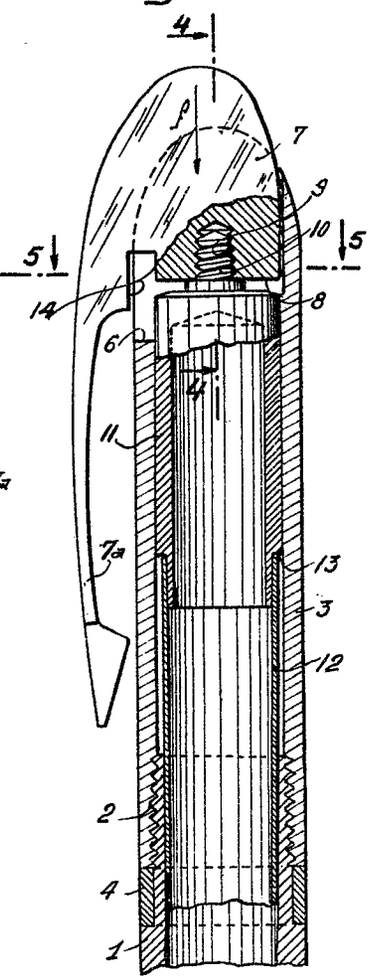


Fig. 4

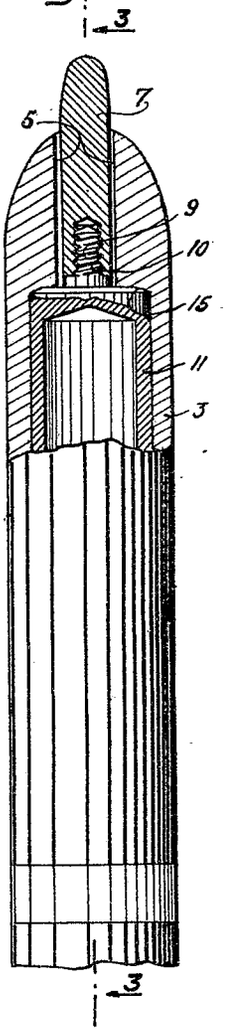
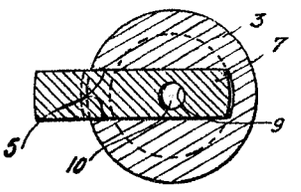


Fig. 5



H.M.S.O.(Ty. P.)