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J. H. ROUSE

2,069,462

PROJECTABLE ERASER

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Fig. 1

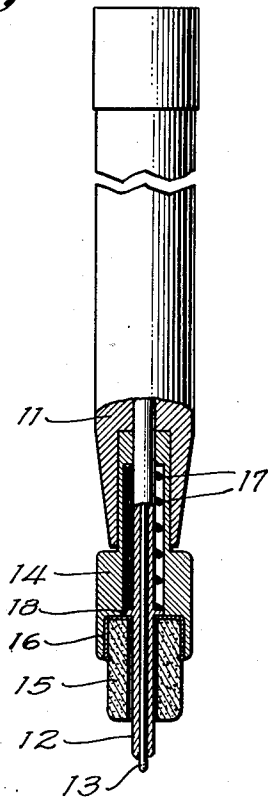


Fig. 2

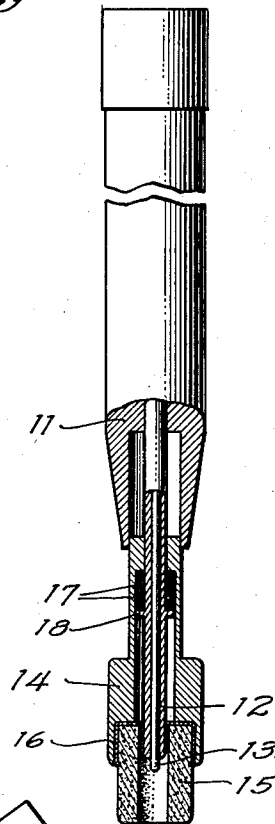
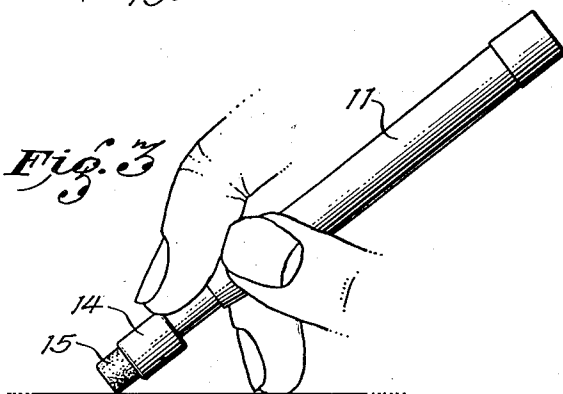


Fig. 3



INVENTOR

John H. Rouse

UNITED STATES PATENT OFFICE

2,069,462

PROJECTABLE ERASER

John H. Rouse, Los Angeles, Calif.

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5 Claims. (Cl. 120—38)

My invention relates to erasers; particularly in combination with mechanical pencils.

A chief object of my invention is to provide an eraser which may be readily projected or extended to cover the writing point of a pencil so that an erasure may be made with the same end of the pencil as is used for writing.

A further object of my invention is to provide a projectable eraser so positioned as to afford a convenient finger rest when not in use, from which position it may be projected for erasure with one finger without releasing hold of the pencil.

Other objects and advantages of my invention will be apparent during the course of the following description.

Referring to the drawing:

Figure 1 is a part longitudinal section of a structure embodying my invention showing the eraser in its normal position;

Figure 2 is a similar part longitudinal section of the same structure showing the parts in the relationship that they bear when the eraser is in its projected position; and

Figure 3 shows the invention in use for erasing.

In the drawing, the numeral 11 denotes the body of an ordinary mechanical pencil having a fixed tube 12 through which the lead 13 is fed. The member 14 is adapted to slide freely on the tube 12 and within the body 11 and carries an eraser 15 mounted in a cup 16. The compression spring 17 bears against the collar 18 on the tube 12 and the inner upper end of the member 14, normally holding said member in the position shown in Fig. 1.

In Fig. 2 the member 14, carrying the eraser 15, is shown in its extended position with the compressed coils of the spring acting as a limiting stop.

The member 14 is smaller in diameter at its upper end so that that portion of it may slide within the body 11. This allows the junction of the body 11 and the member 14, which forms a rest for the forefinger in the unextended position of the eraser, to be conveniently near the point of the pencil regardless of the length of travel provided for the eraser-holding member 14 and the length of the spring 17 desirable for correct tension.

The eraser itself is clearanced from the tube 12, as shown, so as to avoid excess friction. The cup 16, holding the eraser, is a sliding fit on the tube 12 so as to support the eraser in its extended position thereon.

The operation of the device is clearly shown in Fig. 3. The eraser-holding member is held extended by the forefinger so as to cover the point of the pencil, in which position erasure may be made. When the finger is removed, the member

14 snaps back into the position shown in Fig. 1, leaving the pencil point ready for use. The eraser may be projected by the thumb or second finger if the pencil is held in other than the customary manner.

I have chosen the particular embodiment described above as illustrative of my invention but it will be apparent that various modifications may be made without departing from the spirit and scope of my invention, which modifications I aim to cover by the appended claims.

I claim:

1. The combination with a mechanical pencil having a barrel and a lead retaining tube therein, of a hollow eraser holder supported by said tube and slidable thereon to the point end of said pencil, means for holding said holder normally away from said point end comprising a compression spring on said tube and within said holder, and a tubular eraser supported within said holder.

2. The combination with a mechanical pencil having a barrel and a lead retaining tube therein, of a hollow eraser holder slidable on said tube to the point end of said pencil, means for holding said holder normally away from said point end comprising a spring around said tube and a stop on said tube, and a tubular eraser supported within said holder.

3. The combination with a mechanical pencil having a barrel and a lead retaining tube therein, of a hollow eraser holder slidable within said barrel and on said tube to the point end of said pencil, a collar on said tube, means for holding said holder normally away from said point end comprising a spring on said tube and within said holder compressible between the latter and said collar, and a tubular eraser supported within said holder.

4. The combination with a mechanical pencil having a barrel and a lead retaining tube therein, of a hollow eraser holder slidable on said tube to the point end of said pencil, means for holding said holder normally away from said point end comprising a spring around said tube and a stop on said tube, a tubular eraser, and a cup rigidly mounting said eraser and having a hole in its upper end freely fitting said tube, said mounted eraser being supported within said eraser holder.

5. The combination with a mechanical pencil having a barrel and a lead retaining tube therein, of a hollow eraser holder slidable within said barrel and on said tube to the point end of said pencil, the outer junction of said barrel and said holder forming a finger notch; means for holding said holder normally away from said point end comprising a spring around said tube and a stop on said tube; and a tubular eraser supported within said holder.

JOHN H. ROUSE. 60