June 17, 1930. H. P. K. HANSEN 1,765,151

ATTACHMENT FOR PENCILS

Filed June 21, 1929

Fig. 1.

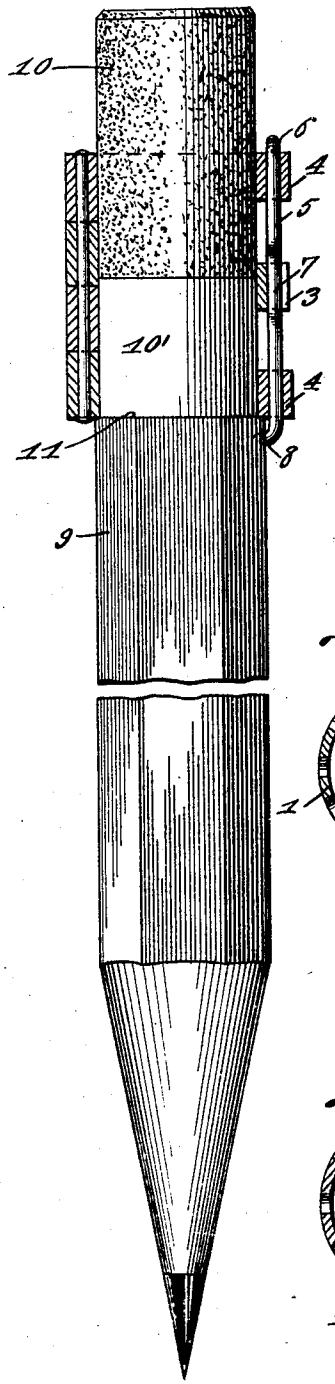



Fig. 2.

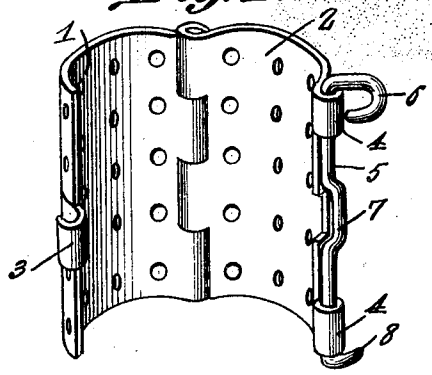



Fig. 3.

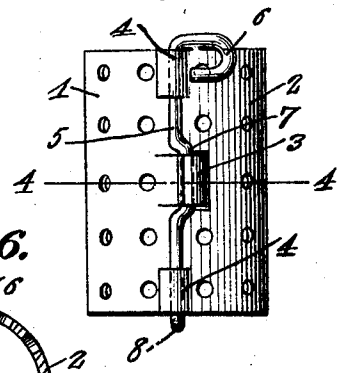



Fig. 6.

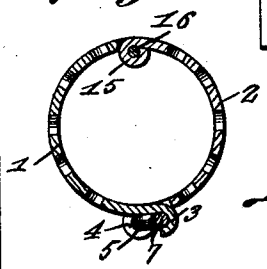



Fig. 4.

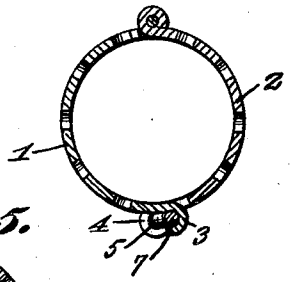
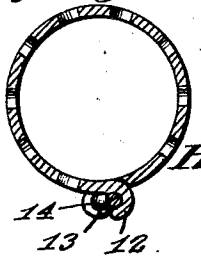



Fig. 5.




H.P.K. Hansen, INVENTOR

BY Victor J. Evans

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# UNITED STATES PATENT OFFICE

HANS P. K. HANSEN, OF STAPLEHURST, NEBRASKA

## ATTACHMENT FOR PENCILS

Application filed June 21, 1929. Serial No. 372,748.

My present invention has reference to writing implements, and my object is the provision of simple, cheaply constructed but thoroughly efficient means for securing rubber erasers on the ends of pencils or like writing implements.

A further object is the provision of a means for this purpose that includes a sleeve of comparatively thin metal which comprises two hingedly connected sections, the free end of one of the sections having swingably associated therewith a latch rod, the other section having a hook-like catch to be engaged by the latch rod for holding the sections closed to tightly compress therebetween a rubber eraser, the latch rod having one of its ends formed with a prong designed when the said latch rod is turned to latching position, to enter the side of the pencil or like implement whose body is of penetrable material and thereby hold the improvement upon said implement.

To the attainment of the foregoing and other objects which will present themselves the invention consists in the improvement hereinafter described and definitely claimed.

In the drawings:

Figure 1 is a side elevation of a writing implement such as an ordinary pencil having a rubber eraser secured upon the end thereof in accordance with this invention, the improvement being in section.

Figure 2 is a perspective view of the improvement, the sections comprising the same being swung to open position.

Figure 3 is a side elevation with the improvement closed.

Figure 4 is a sectional view on the line 4—4 of Figure 3.

Figure 5 is a sectional view substantially similar to Figure 4 but illustrating a slight modification.

Figure 6 is a similar sectional view illustrating a still further modification.

While my improvement may be employed for fastening and holding rubber erasers on the ends of any type of writing implements whose bodies are of penetrable material the same is primarily designed for securing such erasers to the ends of ordinary lead pencils. In this connection it may be advisable to state that in my experience I have found that the rubber erasers attached to the ordinary types of pencils wear away long before the pencil is completely used, especially when a comparatively great amount of erasures are required, which is especially true with respect to pencils employed by school children. I have also found that the ordinary manner of fastening an eraser to the pencil is not altogether satisfactory, as pressure upon the eraser not infrequently causes the same to become disengaged from its fastening means and consequently the eraser is rendered useless. It will be noted with my improvement that the eraser is not let in the end of the pencil, nor is the pencil provided with a fixed means for fastening the eraser thereon.

In carrying out my invention I make use of a tube of preferably thin metal. The tube is, therefore, yieldable. In the preferred embodiment of the invention the tube comprises two semi-cylindrical sections 1 and 2, respectively. These sections may be apertured, as disclosed by the drawings to add to the lightness thereof and provide for the admission of air to the rubber eraser so that the same will not readily deteriorate. The section 1, at the center thereof has its edge formed with a rounded reduced extension that holds a hook-shaped catch 3. The free edge of the section 2, adjacent to its top and bottom is formed with extensions which are rounded upon themselves to provide what may be termed eyes or barrels 4 and passing through these elements 4 there is a latch rod 5. The outer end of the latch rod is bent and rounded upon itself to provide the same with a handle 6, and the central portion of the latch rod is further bent to form the same with an offset or what may be termed a hump portion 7. The offset or hump portion 7 is designed to be received in the catch 3 of the section 1 when the sections are bent together and the lower or inner end of the latch rod 5 is offset and sharpened to provide the same with a prong 8 which will be forced into one side of the pencil 9 when the sleeve is clamped thereon.

Prior to bringing the sections of the sleeve together and clamping or latching the same in a manner as just described, there is arranged in the said sleeve the inner portion of a cross sectionally round rubber eraser 10.

In the showing of the drawings the body of the pencil 9 has angle faces, but the end thereof on which the sleeve is arranged is cross sectionally rounded, as at 10', and the said rounded portion affords an inner shoulder 11 against which the inner edge of the sleeve rests.

In Figure 5 the sleeve is illustrated as a split sleeve, one edge thereof being formed with a hook-shaped catch 12 to be engaged by the offset portion 13 of the latching rod 14, the latching rod being similar to that previously described and having its ends journaled in barrels in the end of the sleeve not provided with the hook-like catch 12.

In Figure 6 the construction is similar to that described in connection with Figures 1, 2 and 3, except the rounded portions or barrels 15 through which the pivot pin 16 passes are inwardly directed. In this instance the barrels may enter a groove in the eraser 10 and a groove in the pencil or like writing implement, or the barrels which contact with the rubber eraser may be forced thereinto to more effectively hold the eraser in the sleeve.

The simplicity of the construction and the advantages thereof will, it is thought, be understood and appreciated by those skilled in the art so that further detailed description will not be required.

Having described the invention, I claim:

1. A means for attaching a rubber to a pencil or like writing implement whose body is of penetrable material, comprising a clamping sleeve designed to be arranged over one end of the implement to receive a rubber eraser therein, means for forcing the sleeve against the pencil and eraser, and said means including an impinging element which enters the body of the writing implement.

2. A means for removably fastening a tubular rubber eraser on the end of a pencil or like writing implement whose body is of penetrable material, comprising a clamping sleeve made up of two hingedly connected sections, a hook-like catch on the edge of one of the sections, a latching rod journaled on the outer edge of the other section, having an outer handle portion, a centrally offset portion to be received in the hook-like catch and an inner offset sharpened portion to forcibly enter the side of the pencil when the latching rod is swung to latching engagement.

3. A means for removably fastening a tubular rubber eraser on the end of a pencil or like writing implement whose body is of penetrable material, comprising a clamping sleeve made up of two hingedly connected sections, a hook-like catch on the edge of one of the sections, a latching rod journaled on the outer edge of the other section, having an outer handle portion and a centrally offset portion to be received in the hook-like catch and an inner offset sharpened portion to forcibly enter the side of the pencil when the latching rod is swung to latching engagement and the pivot receiving barrels for the sections being inwardly directed.

In testimony whereof I affix my signature.

HANS P. K. HANSEN.