(No Model.)

R. LOCKWOOD.

PENCIL.

No. 270,959. Patented Jan. 23, 1883.

Fig. 1.

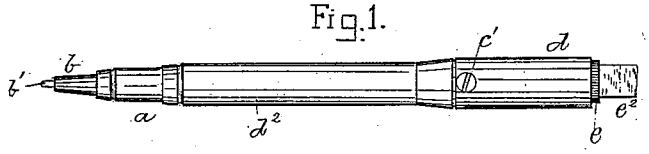


Fig. 2.

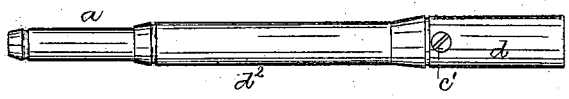


Fig. 3.

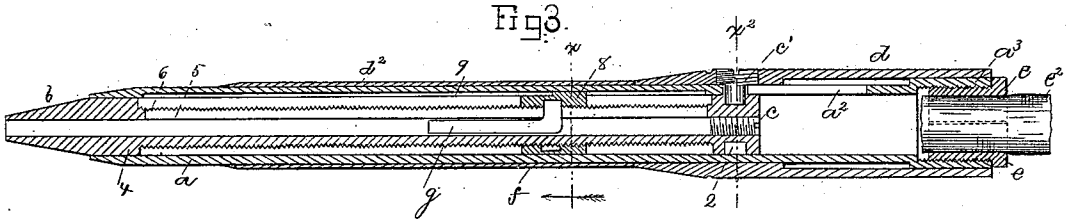


Fig. 4.

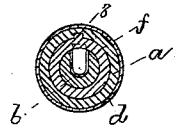


Fig. 5.

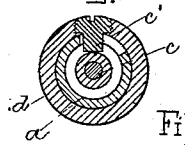


Fig. 6.

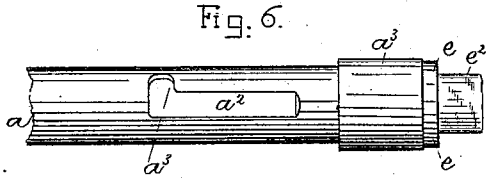
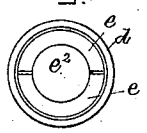


Fig. 7.



Witnesses.
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UNITED STATES PATENT OFFICE.

RHODES LOCKWOOD, OF BOSTON, MASSACHUSETTS.

PENCIL.

SPECIFICATION forming part of Letters Patent No. 270,959, dated January 23, 1883.

Application filed October 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, RHODES LOCKWOOD, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Pencils, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention has for its object the production of a pencil having holders for a marking lead or crayon and for a piece of erasive rubber, the said holders being combined with a shield by the movement of which longitudinally with relation to the body of the pencil both the lead-holder and the erasive-rubber holder may be exposed for use or covered to be carried in the pocket.

The particular features and construction of parts in which my invention consists will be hereinafter described, and pointed out in the claims at the end of this specification.

Figure 1 represents my improved pencil with the parts in condition for use, the lead and the erasive rubber being exposed; Fig. 2, the same with the parts in position to cover or shield the holder which carries the lead, and also the holder containing the erasive rubber; Fig. 3, a longitudinal section of Fig. 1 on a larger scale; Fig. 4, a cross-section of the pencil on the dotted line x, Fig. 3; Fig. 5, a section on the dotted line x^2, Fig. 3. Fig. 6 is a side elevation of the main body of the pencil and devices to hold the erasive rubber, and Fig. 7 a view showing only the right-hand end of Fig. 3.

The tubular body or case a of the pencil receives within it the holder b for a suitable lead, b', (see Fig. 1,) or any usual or common crayon. This lead-holder, at its inner end, has a head, c, provided with an annular groove, 2, which receives in it the inner end of a screw-pin, c', seated in or carried by the shield d for the erasive rubber, it being made as a sleeve surrounding the body a, and adapted to slide longitudinally thereon by means of the screw-pin c' entering a slot, a^2, in the said body, (see Figs. 3, 5, and 6,) which slot at one end is enlarged or provided with a notch, a^3, as shown best in Fig. 6, to lock or retain the sleeve d, body a, and lead-holder b in position for use, as in Figs. 1 and 3. This notch a^3 and pin c', when in engagement, constitute a locking device, and prevent the longitudinal sliding of the different parts when holding the pencil in the hand and writing or erasing, the lead b' or the rubber being then pressed upon the paper or other substance.

One end of the body a has a collar, a^3, preferably screw-threaded internally, as shown in Fig. 3, which collar receives within it the holder e for the erasive rubber e^2, the said holder being shown as composed of a divided tube or of two semi-tubes screw-threaded externally to fit the screw-threads of the said collar, and having shoulders to abut against the end of the said collar. This holder or clamping device for the erasive rubber is so made that it may be opened, when out of the collar a^3, to receive within it the erasive rubber, which enables the erasive rubber to be readily adjusted longitudinally with relation to the body a, and to be securely clamped and held in adjusted position. The shield d, when slid or moved along over the body a toward the right from the positions Figs. 1 and 3, covers and shields the erasive rubber, as in Fig. 2.

The lead-holder b has its shank reduced between its portion 4 and head c, (see Fig. 3.) is slotted longitudinally, and provided with screw-threads, as at 6, to receive the nut f, which carries the lead-feeder g, the said nut having a projection, 8, to enter a longitudinal groove, 9, (shown best in Fig. 3,) made in the body a. Rotation of the holder b while the body a is held from rotation will cause the nut f to be moved longitudinally on the threaded shank of the lead-holder and cause the lead-feeder g, composed of a piece of wire, to act against the end of and push or feed the lead forward. The shell d is shown extended toward the lower end of the pencil far enough to form a hand-piece, d^2, the said hand-piece preventing contact of the fingers or hand with the body a when the pencil is held by hand and being used.

After using the pencil, and it is desired to put it in the pocket, the shield d will be turned far enough to remove the pin c' from the notch a^3 of the body a, and while the shield d is held in one hand and the body a in the other the shield and body are drawn out with relation

to each other so as to cause the pin c' to travel along the slot a^2 to its opposite end. This movement of the sleeve and body will draw the lead-holder b completely into the body, as in Fig. 2, and carry the shield over and beyond the end of the erasive rubber, thus shielding both the end of the lead b' and the said erasive rubber.

The parts a b c d d^2 will in practice be made of hard rubber, as preferably will also be the separable clamp e for the erasive rubber.

I might omit the screw-thread between the clamp and collar a^3 and crowd the clamp snugly into the collar, the contraction of the clamp upon the erasive rubber enabling the latter to cause sufficient friction between the clamp and collar to retain the clamp in place.

I claim—

1. The shield, the slotted body, and the lead-holder placed within the body and connected with the said shield, combined with the piece of erasive rubber held in place at the end of the body, whereby by movement of the shield and lead-holder in one direction and the body in the opposite direction both the end of the lead-holder and the erasive rubber are shielded or concealed, substantially as described.

2. The slotted body, and the holder or clamp for the erasive rubber, and the lead-holder, and connected shield, combined with means to lock the body and shield against longitudinal movement, substantially as described.

3. The body a and its collar, combined with the separable clamp adapted to fit within the said collar and clamp the erasive rubber, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

RHODES LOCKWOOD.

Witnesses:
G. W. GREGORY,
B. J. NOYES.