No. 641,230. Patented Jan. 9, 1900.

G. W. RICE & G. ZERRMANN.

MAGAZINE PENCIL.

(Application filed May 9, 1899.)

(No Model.)

Fig. 2.

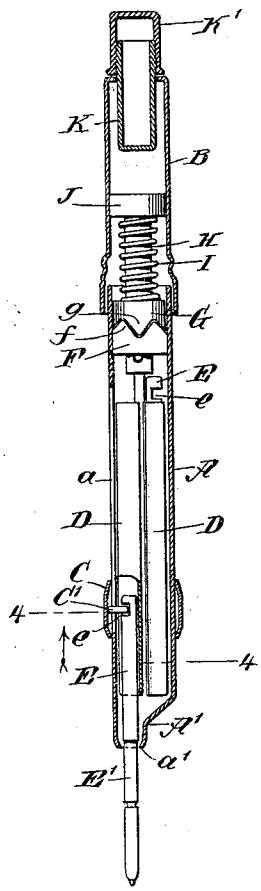


Fig. 1.

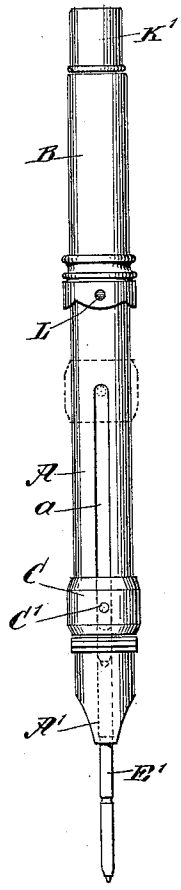


Fig. 3.

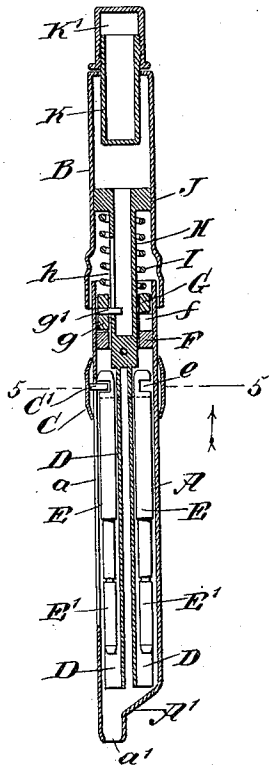


Fig. 5.

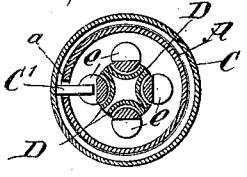


Fig. 4.

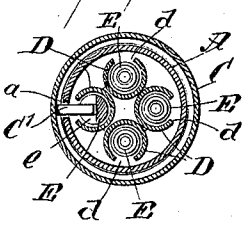
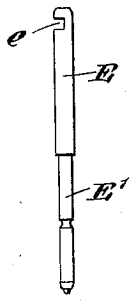


Fig. 6.



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UNITED STATES PATENT OFFICE.

GEORGE W. RICE AND GUSTAVE ZERRMANN, OF NEW YORK, N. Y.

MAGAZINE-PENCIL.

SPECIFICATION forming part of Letters Patent No. 641,230, dated January 9, 1900.

Application filed May 9, 1899. Serial No. 716,151. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. RICE and GUSTAVE ZERRMANN, of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Magazine-Pencil, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in magazine-pencils or those pencils which have several different leads any one of which may be brought into use as desired.

Our invention comprises the novel features which are hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a view of our pencil with one of the leads projected. Fig. 2 is a longitudinal sectional view of the same, taken in a plane perpendicular to the plane of Fig. 1. Fig. 3 is a longitudinal section taken in the same plane as Fig. 2, but with all of the leads retracted. Fig. 4 is a cross-section taken upon the line 4 4 of Fig. 2. Fig. 5 is a cross-section taken upon the line 5 5 of Fig. 3, and Fig. 6 is a detail view showing one of the lead-holders removed.

Within a suitable casing A is placed the magazine, which may be adapted for holding any number of leads desired within a reasonable limit. We have herein shown a pencil which contains four leads, although this number might be increased or decreased as desired. The magazine is supported within the casing so that it may be turned and bring any one of the leads desired into registry with the opening a' in one end thereof. This opening is made near one side of the casing, and the end of the casing is beveled toward this opening, as shown at A', so that a large blunt end of the casing is not brought near the point to thus interfere with the convenient use of the pencil.

The magazine consists of four tubes D, which are placed alongside of each other and secured together, each tube having a slot d extending throughout its length and upon its outer side. Within each of these tubes is placed a lead-holder, said lead-holder being shown in detail in Fig. 6 and being similar to the ordinary lead-holders, excepting that at its inner end it has a transversely-extending notch e, by means of which it is engaged by a slide to project it or retract it. This holder is constructed in two parts E and E', the outer end E' turning within the inner end E to regulate the position of the lead.

The casing A has a longitudinally-extending slot a in one side and is surrounded by a ring or slide C, which has a pin C' passing through the slot and adapted to engage with the notches e in the lead-holders. When the lead-holders are all withdrawn into the casing, the slots e in their inner ends occupy the same relative position and the magazine may be freely rotated, the pin C' passing in succession into the slots in the different holders. A ring F is secured within the casing A just back of the magazine and has one edge formed with a series of teeth f, corresponding in number to the number of leads used in the magazine. The magazine has a stem H extending rearwardly or away from the point of the pencil and has a ring G surrounding the stem and sliding longitudinally thereon. Said ring is prevented from turning upon the stem by means of a pin g', which enters a slot h in the stem H, and the ring is provided with a tooth g, adapted to engage with the teeth f upon the ring F. These two rings are secured to the casing and the stem of the magazine in such relative position that the slots in the tubes D, forming the magazine, will register with the slot a in the casing when the two rings are in contact. In this position the slide C may be moved toward the pencil-point and will carry with it the holder which is at that side of the magazine, thus projecting it from the opening a' in the pencil. When the slide has been withdrawn, carrying with it the holder E, the magazine may be rotated so as to bring another one of the holders into engagement with the slide and so that it may be projected for use.

The ring G is normally held in engagement with the ring F by means of a spring I, which surrounds the stem, bearing at one end upon the ring G and at its other end upon a ring J, which is secured within an extension B of the casing. This extension has one end notched sufficiently to overlap the end of the casing A, and by turning this extension upon the

casing the magazine may be turned into the desired position.

The end of the extension B next to the casing A has a series of slight depressions L, corresponding in number and location with the holders in the magazine. Within each of these depressions is placed a small amount of color corresponding with the color of the lead in each particular holder. In this manner may be told beforehand the location of any particular color. The pencil is also shown as having a removable capsule or chamber K, which enters the rear end of the pencil and may be used for holding additional leads, and it is provided with a removable cap K', which is preferably threaded thereon.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. A magazine-pencil, comprising a casing having an eccentric opening at one end for the projection of the leads, a magazine having lead-holder-receiving pockets or guides and mounted to turn in said casing, lead-holders carried in the magazine and independently movable, and means for engaging said holders to project them as they come into position, substantially as described.

2. A magazine-pencil, comprising a casing, a magazine having guiding-pockets for receiving the lead-holders, lead-holders lying one in each of said pockets, a casing inclosing the magazine and turnable thereon, and a slide adapted to engage the holders to project them as they are turned into position, the casing having a slot accommodating a member of the slide, substantially as described.

3. A magazine-pencil, comprising a casing having an eccentric opening in one end for the projection of the leads, a magazine mounted to turn in said casing and having guiding-pockets for the lead-holders, lead-holders slidable in the pockets in the magazine and independently movable, means for engaging said holders to project them as they come into position, and a registering lock for the casing and magazine, substantially as described.

4. A magazine-pencil, comprising a casing, a magazine mounted to turn within said casing and having separate pockets for the lead-holders, independently-movable lead-holders in said pockets, a registering catch or lock holding the casing and magazine in proper position for using each holder, and a slide adapted to engage the holders to project them as they are turned into position, the casing having a slot accommodating a member of the slide, substantially as described.

5. A pencil, comprising a casing having an eccentric opening for the projection of the leads, a magazine mounted to turn in said casing and having slots for receiving the lead-holders, lead-holders carried in the pockets of the magazine and independently movable, means for engaging said holders to project them as they come into position, and a spring-held catch and ratchet holding the casing and magazine in registry for the projection of the holders, substantially as described.

6. A magazine-pencil, comprising a casing, a magazine mounted to turn within said casing and having cells or pockets receiving the lead-holders, independently-movable lead-holders in said pockets, a spring-held catch and ratchet, holding the casing and magazine in registry for the projection of the holders, and a slide adapted to engage the holders to project them as they are turned into position, the casing having a slot accommodating a member of the slide, substantially as described.

7. A magazine-pencil, having a series of tubes secured together and having each a slot in its outer side, a lead-holder in each tube, and means for engaging each holder to project it through the slot in its tube, substantially as described.

8. A magazine-pencil, having a series of tubes secured together and having each a slot in its outer side, and a lead-holder in each tube having a transverse notch, a ring adapted to turn and slide outside of the magazine and having a pin adapted to engage the notches in the holders, whereby the holders may be projected, substantially as described.

9. A magazine-pencil, comprising a casing having a longitudinal slot therein, and an eccentric end opening for the projection of the leads, a magazine mounted to turn in the casing and containing a series of tubes secured together and having each a slot in its outer side, a lead-holder in each tube, and means for engaging each holder to project it through the slot in its tube, substantially as described.

10. A magazine-pencil, comprising a casing having a longitudinal slot therein, and an opening for the projection of the leads, a magazine mounted to turn in the casing and containing a series of tubes secured alongside of each other and having each a slot in its outer side, a lead-holder in each tube, means for engaging each holder to project it through the slot in its tube, and a spring-catch and notched ring, holding the casing and magazine in proper registry to engage and project the different holders, substantially as described.

11. A magazine-pencil, comprising a casing having a sloping or beveled end integral therewith and an eccentrically-located hole at the extremity of its bevel for the projection of a lead, a revoluble magazine within the casing having plural leads therein, and means for positively engaging and projecting the leads when brought into registry with the hole in the casing, substantially as described.

12. A magazine-pencil, comprising a casing, a magazine mounted to turn within the casing, independently-movable lead-holders in the magazine, a slide having means for engaging and projecting the lead-holders as they are rotated, a casing extension at the upper end of the pencil secured to the magazine and turnable on the casing-body, a toothed ring

and a spring-held catch engaging it, one carried by the magazine and the other by the casing-body and adapted to hold the magazine with the lead-holders in engagement with the slide whereby they may be projected, substantially as described.

13. A magazine-pencil, comprising a magazine and a series of lead-holders, the magazine having independent sliding and guiding attachment with each lead-holder, a casing inclosing said magazine and having a holder at one end for the projection of the leads, and means for positively engaging and projecting any desired lead, substantially as described.

14. A magazine-pencil, comprising a magazine, and a series of lead-holders therein, the magazine having independent sliding and guiding attachment with each lead-holder, a casing inclosing said magazine and having an eccentric hole at one end for the projection of the leads and also having a longitudinal slot in one side, and an exterior slide movable on the casing and having a pin entering said slot to engage the lead-holders to project them, substantially as described.

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