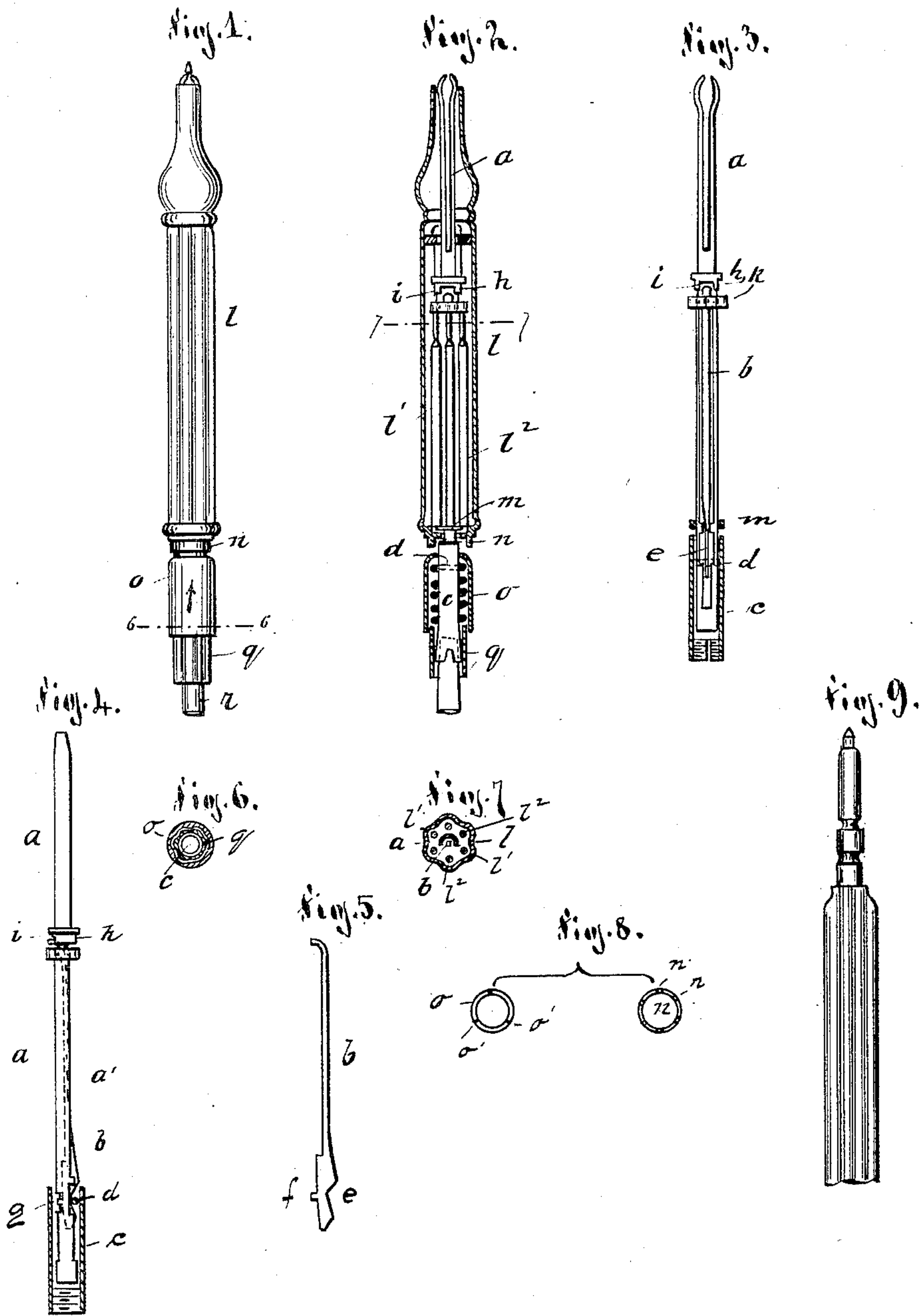


(No Model.)

M. SCHREIBER.
MAGAZINE PENCIL CASE.

No. 424,621.

Patented Apr. 1, 1890.



WITNESSES:

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MARTIN SCHREIBER, OF NUREMBERG, BAVARIA, GERMANY.

MAGAZINE PENCIL-CASE.

SPECIFICATION forming part of Letters Patent No. 424,621, dated April 1, 1890.

Application filed December 18, 1889. Serial No. 334,237. (No model.) Patented in Germany January 11, 1889, No. 48,403.

To all whom it may concern:

Be it known that I, MARTIN SCHREIBER, mechanician, of Nuremberg, Jahnstrasse No. 11, in the Kingdom of Bavaria and Empire of Germany, have invented certain new and useful Improvements in Magazine Pencil-Case, (which has also been patented in Germany January 11, 1889, No. 48,403,) of which the following is a specification.

10 The object of my invention is to provide a new and improved magazine pencil in which a series of leads of different degrees of hardness or color are contained, and either of which can be used when desired.

15 The invention consists in the construction and combination of parts and details, as will be fully described hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side view of my improved magazine pencil. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a detail side view of the lead-feeding tube, parts being in section. Fig. 4 is a similar view taken 25 in a plane at right angles. Fig. 5 is a detail side view of the lever in the feed-tube. Fig. 6 is a section on the line 6 6, Fig. 1. Fig. 7 is a section on the line 7 7, Fig. 2. Fig. 8 shows detail end views of the sleeve *n* and socket *o*. 30 Fig. 9 is a side view of the pencil, showing a screw in place of a spring-clamp for holding the lead.

Similar letters of reference indicate corresponding parts.

35 The central tube *a* is provided in one side with a longitudinal recess *a'* of about half the diameter of the tube, and in the same the lever *b* is arranged. The lower end of the tube is placed into a socket *c*, with which it is united 40 by a transverse pin *d*, that passes through a triangular or like notch *e* in the lower end of a lever *b*. The lever *b* can swing or turn on a pivot *f*, projecting from the lower end of the lever *b* at the edge opposite the one having 45 the notch *e*, into an aperture *g* of the tube *a*. At the upper end of the recess *a'* the tube *b* is provided with a collar *h*, having a notch or recess *i* in its bottom edge, through which recess the upper pointed end of the lever *b* can 50 swing or pass. The casing *l*, which is so arranged that it cannot move longitudinally on

the tube *b*, is provided with six longitudinal grooves or pockets *l'* for receiving six leads *l''* of different degrees of hardness or different colors, the lower ends of which leads rest on a 55 collar *m* of the tube *b*. Said tube *b* is movable in a sleeve *n*, secured in the lower end of the casing *l*, which sleeve is provided in its bottom edge with six notches *n'*, as shown in Fig. 8. The socket *o* is provided on its upper end 60 with three prongs or projections *o'*, that can pass into or engage the notches *n'* in the lower end of the sleeve *n*. Within the socket *o* the spiral spring *p* is arranged, which surrounds the socket *c*, one end of said spring resting 65 against the sliding tube *q*, which is movable in one end of the socket *o*, said tube having a ribbed outer surface, which engages a correspondingly-ribbed inner surface of the end of the socket *o*, as shown in Fig. 6, so that said 70 tube *q* cannot turn in the socket *o*, but only slide lengthwise in the same. The upper end of the socket *c* has an internal screw-thread and is slitted transversely, so that by screwing the push piece or button *r* into said slitted end 75 of the socket *c* the end of said socket is jammed firmly against the inner surface of the tube *q*. The pencil-case is held with the point toward the top and the button *r* is pressed inward, whereby the socket *c* is moved upward and the 80 pin *d* acts on the upper beveled edge of the notch *e*, whereby the lever *b* is swung, so that its upper end moves toward the center of the tube *b*, the pointed upper end of said lever *b* passing through the notch *i* in the collar *h*. The 85 slanting position of the lever *b* permits the lead that rests against the outer edge of said lever *b* to pass into the tube *a* and the continued pressure on the button *r* causes the spring-clamp *a''* on the end of the tube *a* to 90 open, permitting the lead that has just passed into the tube *a* to slide through said tube and into the spring-prongs when the pencil is reversed. When the pressure on the button *r* is removed the spring *p* draws back the tube *a* 95 and the lead is held by the spring-prongs *a''*. After the lead has been used the pencil is again held vertically and pressure exerted on the button *r*, which causes the spring-tongues *a''* to release the lead, which slides down into 100 the tube *a* and through the tube-recess *a'* of the same into the compartment or groove

l', which it originally occupied, the outer end of the lever *b* serving to guide said lead back into its place. Numbers of the grooves *l'*, or different colors of said grooves, may be used to show the grade or color of the lead in said groove. When a certain grade or color of lead is desired for writing or drawing, the socket *o* is turned in such a manner that a certain mark on the socket *o* corresponds with the groove *l'*, containing the desired lead. Thereby the socket *o*, tube *q*, and tube *a* are also turned so that the edge of the lever *E* will rest against the desired lead. The notches *n'* of the sleeve *n* and the projection *o'* on the tube *o* serve to lock the tube *o* in place after it has been turned in position for the desired lead.

As shown in Fig. 9, the pencil-case can be constructed with the ordinary screw device for holding the lead in place on the spring-prongs.

Having thus described my invention, I

claim as new and desire to secure by Letters Patent—

1. In a pencil, the combination, with an exterior magazine case, of a central feed-tube, a guide-lever in the same, and a button for operating said guide-lever, substantially as set forth.

2. In a pencil, the combination, with an exterior case having a series of compartments for leads of different kinds, of a central feed-tube having a longitudinal recess, a guide-lever pivoted in said recess, and push-pieces acting on said lever, and a spring acting on the push-piece, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

MARTIN SCHREIBER.

Witnesses:

ALEX. WIELE,

WILLIAM R. MATTHES.