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MULTICOLOR PENCIL CASE

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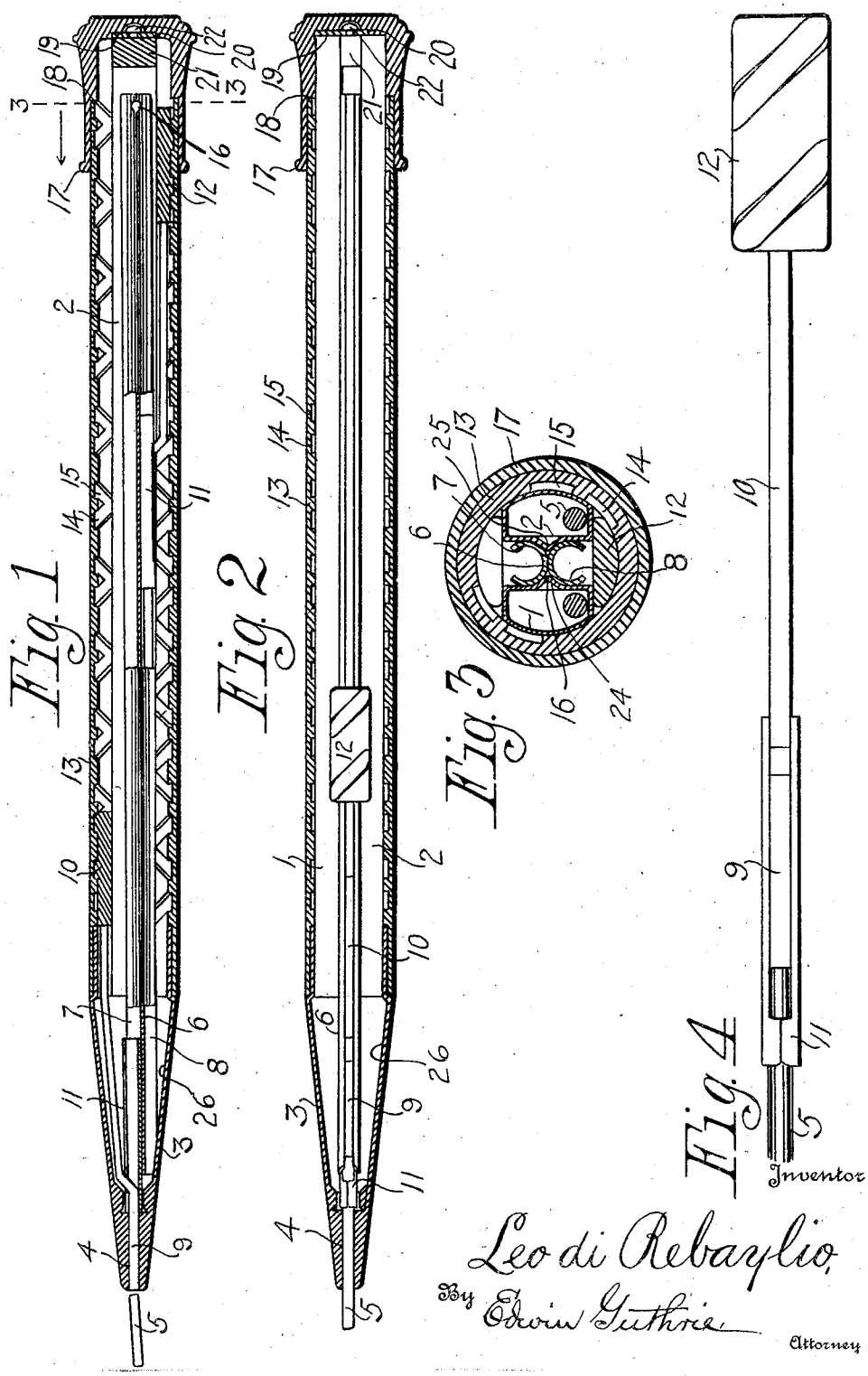


Fig. 1

Fig. 2

Fig. 3

Fig. 4

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UNITED STATES PATENT OFFICE

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MULTICOLOR PENCIL CASE

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This invention relates to multi-color pencil cases, and its object is to provide means for protruding from the end piece or point of the case a pencil of one desired color, and then withdrawing that pencil and extending another of another color for use.

This invention consists of the special construction and arrangement of parts by which the above stated object is accomplished quickly, certainly and conveniently, those parts being readily and cheaply manufactured and assembled.

The preferred construction of this invention is illustrated in the accompanying drawings of which Fig. 1 represents a longitudinal sectional view of all parts assembled. Fig. 2 is a view with a portion of the external member broken away to disclose the grooved slide-guiding member within. Fig. 3 is a section on the broken line 3—3 of Fig. 1. Fig. 4 is a top view of the slide member. The scale of drawings in all the figures has been considerably increased over the actual size of the invention to make clear the construction.

Throughout the drawings and description the same number is used to refer to the same part.

Considering the drawings it will be noted that there are two tubular or hollow side members 1 and 2, and that both those members at one end are secured usually by soldering to the tip member 3 or point of the pencil case, having the customary outlet passage 4 for the pencil 5. The reason for making the side members tubular is to save weight and to provide ample storage chambers for the pencils. The pencils consist of aligned and relatively short pieces as shown in Figs. 1 and 2.

Between the side members is a guide member 6 having usually two grooves 7 and 8 opening outwardly. In the grooves of the guide are located movably the toes 9 of the slides or pencil pushers which are designated as a whole by the number 10. There are two slides as this invention is ordinarily made, but one slide may be used with either groove as hereinafter explained. The toe or off-set end 9 of each slide is provided with a pencil holder such as the holder 11 shown in Figs. 1 and 2, and the pencil 5 is held by the clamping action of the holder so as to project therefrom as shown in Fig. 2. The pencil holder 11 is a tube as shown in Figs. 1 and 4, made of spring metal and having a longitudinal slot for the admission of the toe 9 of the slide. The end of the holder is split to the slot as illustrated in Figs. 2 and 4, and the split end resiliently grasps the pencil 5. In like manner the split and resilient end of the spring metal holder 11 grips the toe of the sliding or plunger member 10, and the pencil is thus advanced or withdrawn together with the holder 11 by the movements given the sliding member 10.

In Fig. 4 there will be noted a widened and threaded end 12 with which the slide is provided. The thread is an interrupted thread as illustrated, and it engages the internal screw threads of an external tubular member 13 as shown in Fig. 1. The threads are right and left hand threads and they are referred to by numbers 14 and 15. The threaded ends 12 of the slides are located upon opposite sides of the carrier guide member 6 as shown in Fig. 3.

In Figs. 1 and 2 it will be noted that the end of the external member 13 surrounds the slightly reduced inner end of the tip member or point 3. The external member is movable thereon.

In Fig. 3 it will be noted that each side member 1 and 2 has a slight protuberance which enters the opening 16 between the grooved portions of the guide. The longitudinally open tubes comprising the double guide 6 are as usually constructed soldered together at the sides in the relative positions illustrated, and the small openings or depressions 16 are formed in the solder. The tubes are soldered on both sides, and on each side there is an opening 16. This engagement is intended to insure the guide against turning between the side members, otherwise than will be understood from the explanation of the operation of this invention.

Considering Figs. 1 and 2 it will be noted that the upper end of the external member 13 is closed by a cap 17, which has an internal shoulder 18 against the end of the member

13. It is also shown in this figure that the cap 17 has a removable plate seated interiorly in its end, and the plate is marked 19 and its seat 20. Pivotally connected with the plate 19 is a spacer block 21. The pivotal connection is made by means of the pintle 22 projecting from the spacer block as illustrated.

In the operation of this invention it will be observed in Fig. 1 that the slides are at different ends of the grooved member or double guide 6. One slide is in engagement with one spiral thread of the external member and the upper slide engages the reverse thread. The tip member 3, the side members 1 and 2, the guide and the slides may all be held stationary by taking the tip member 3 in one hand. Now, if the external member 13 be suitably turned with the other hand, the slide shown nearest the end piece in Fig. 1 will be withdrawn into the interior, and the other slide caused to extend the second pencil from the tip member. As indicated in Figs. 1 and 2, the engagement between the conical tip member 3 and the external barrel or body member 13 is frictional, and the tip and body may be separated, whereupon the side tubes 1 and 2 can be drawn out of the body, and with them the double guide 6. It will be further noted in the operation that, if so desired, the toe 9 of the slide may be forced against the pencil, and by reason of the grip of the holder upon the pencil the holder 11 correspondingly pressed against the internal shoulder 23 of the end piece. The holder will be stopped, but the used pencil may be discharged by way of the passage 4, and another pencil substituted in the holder. With that intention, the holders are constructed of metal possessing some elasticity. The protuberances mentioned herein as being formed on each of the side members 1 and 2 and designated by reference numbers 24 and 25, are in function small trunnions, and by reason of their engagements with the openings 16, the end of the double guide 6 towards the tip member 3 has a limited side to side movement between the side members 1 and 2. This movement is sufficient to bring either of the grooves 7 or 8 substantially in line with the outlet passage 4 to permit the projection of the pencil 5. Let it be assumed that the slide shown in the drawings as nearest the tip member 3 be withdrawn by the operation and the other slide moved in the direction of the tip member. When the end of the pencil borne by the holder and pushed by the slide makes contact with the internal conical surface 26 of the tip member, the end of the guide 6 shown in the drawings as below the outlet passage 4 of the tip member will be swung sidewise far enough to allow the end of the pencil to enter the outlet passage, and further movement will cause the end to project from the tip member as illustrated.

Having now described this invention and the mode of its operation, I claim:—

1. In a pencil, the combination of side members, a tip member secured to the said side members, a guide member constructed with a plurality of longitudinal grooves and arranged between the said side members and having a limited movement, an external barrel member having internal screw threads, the said tip member and barrel engaging each other and being relatively revoluble, and slides constructed to receive and hold pencils and having end portions engaging the said grooves of the guide member and the said internal threads of the external member.

2. In a pencil, the combination with side members, of a tip member secured to the side members, a guide member constructed with a plurality of longitudinal grooves and arranged between the said side members and the forward end of said guide member having limited lateral movement, an external barrel member having internal screw threads, the said tip member and the barrel member engaging each other and being relatively rotatable, and slides constructed to receive and hold pencils and having end portions engaging the said grooves of the guide member and the internal threads of the external member.

3. In a pencil, the combination with a side member, of a tip member secured to the side member, a guide member constructed with longitudinal grooves and arranged in contact with the said side member, an external member having internal screw threads, the said tip member and external member engaging each other and having individual rotative movements, and a slide constructed to receive and hold a pencil and having one end portion engaging one of the said grooves of the guide member and the other engaging the threads of the said external member.

4. In a pencil, the combination with side members, of a tip member secured to the side members, a guide member constructed with longitudinal grooves and arranged between the said side members, an external barrel member having internal right and left hand threads, and slides constructed to receive and hold pencils and having portions engaging the said grooved guide member, and one of the said slides having a portion provided with threads for engaging the right hand threads of the said barrel member, and the other slide having a portion provided with threads for engaging the left hand threads of the said barrel.

5. In a pencil, the combination with hollow side members, of a tip member secured to the side members, a guide member having oppositely located longitudinal grooves and arranged movably between the said side members, an external barrel member having internal screw threads, pencil holders located in the grooves of the guide member, and slides

having portions engaging the pencil holders and portions engaging the said threads of the said barrel member.

6. In a pencil, the combination with hollow side members, of a tip member secured to the side members, a guide member having a longitudinal groove and arranged between the side members and being held by the said members against movement lengthwise, an external barrel member having an internal screw thread, a pencil holder located in the groove of the said guide member, and a slide having a portion engaging the pencil holder and a portion engaging the said threads of the said barrel member.

In testimony whereof I affix my signature.

LEO DI REBAYLIO.