V. STEELREATH.

WRITING INSTRUMENT.

APPLICATION FILED MAR. 20, 1919.

1,307,159.

Patented June 17, 1919.

FIG. 1.

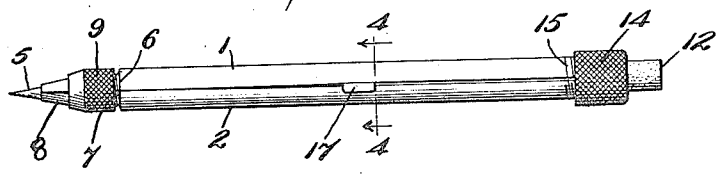


FIG. 2.

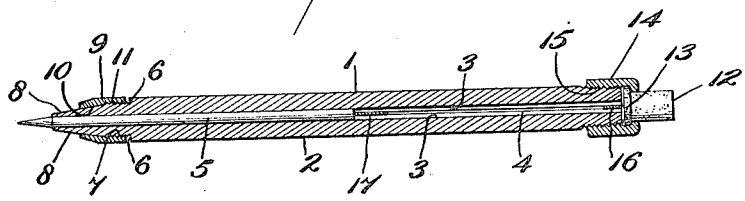




FIG. 3.

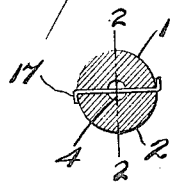
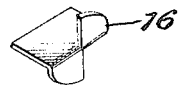


FIG. 4.

FIG. 5.



Inventor

Victor Steelreath,

By T. A. Witherspoon

Attorney

UNITED STATES PATENT OFFICE.

VICTOR STEELREATH, OF BASIC, VIRGINIA.

WRITING INSTRUMENT.

1,307,159. Specification of Letters Patent. Patented June 17, 1919.

Application filed March 20, 1919. Serial No. 283,799.

To all whom it may concern:

Be it known that I, VICTOR STEELREATH, a citizen of the United States, residing at Basic, in the county of Augusta and State of Virginia, have invented certain new and useful Improvements in Writing Instruments; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to writing instruments and has for its object to provide a device of this character which will be simple in construction, comparatively inexpensive to manufacture, and more efficient in use than those heretofore proposed.

With these and other objects in view the invention consists in the novel details of construction and combination of parts more fully hereinafter disclosed and particularly pointed out in the claims.

Referring to the accompanying drawings forming a part of this specification in which like numerals designate like parts in all the views:—

Figure 1 is an elevational view of a pencil made in accordance with this invention;

Fig. 2 is a central longitudinal sectional view of the parts shown in Fig. 1, taken on the line 2—2 of Fig. 4;

Fig. 3 is a plan view of one of the barrel or holding members;

Fig. 4 is a cross sectional view taken on the line 4—4 of Fig. 1; and

Fig. 5 is a detail perspective view of a spacing member employed with the barrel members;

1 indicates a barrel member, substantially semi-cylindrical in shape, and formed of aluminum or other suitable material and 2 a companion barrel member, similar in every respect to the member 1.

Each of the said members is provided with a groove 3, extending its full length and adapted to form a bore 4 into which fits the lead or other marking member 5. The barrel members are each provided at one end with a shoulder 6, and a reduced screw threaded portion 7 adjacent thereto, from which reduced portion they are tapered as at 8 down to the grooves 3, see Figs. 1, 2 and 3.

9 represents a finger piece or ferrule, provided with an internally tapered portion 10 and with a threaded portion 11, adapted to engage the threads 7 of the barrel members, as will be clear from the drawings. 12 indicates an erasing member provided with a flange 13 adapted to be detachably secured to the barrel members 1 and 2, as by means of the flanged cap 14, engaging the screw threads 15 with which the said barrel members are provided.

The groves 3 are preferably of the same radius as the lead 5, so that the latter fits the bore 4 snugly, and is thus supported by the members 1 and 2, throughout its entire length which is a great factor in eliminating breakage of the lead. In order to facilitate the sliding of the lead in the said bore, however, the members 1 and 2 may slightly be spaced apart at one end as by the thin sheet metal spacing member 16, and also by the combined spacing member and follower 17. When not in use the lead 5 may be entirely withdrawn into the bore 4, but when it is desired to write, the lead may be adjusted to any desired position by merely partly unscrewing of the ferrule 9, pushing the lead down by means of the follower 17 and then screwing up the said ferrule. Owing to the wedging action of the tapered portion of the ferrule 9 against the taper on the members 1 and 2, the lead is firmly clamped between the said members, as will be readily apparent. When it is desired to withdraw the lead into the barrel, the ferrule 9 is loosened and the lead pushed within the barrel, whereupon, when the ferrule is again screwed up the lead will be clamped by the barrel members and prevented from sliding into its operative position.

Should the erasing member 12 wear out or for any reason become useless, it can be readily replaced by simply screwing the cap 14, substituting a new member 12 and then replacing the said cap.

It will be observed that with the present invention a lead of substantially the full length of the barrel members 1 and 2 may be used, a feature which so far as I am aware is not present in any of the renewable non-sharpening pencils heretofore proposed.

It will also be observed that by screw threading the cap 14 to the barrel members 1 and 2, that the said members will always be maintained in the proper relation to one another and not permitted to slide or move

longitudinally with respect to one another, as would be the case if the said cap were not screw threaded but was merely held on the said members by frictional engagement. It results from this that should the finger piece 9 be entirely removed, either intentionally or accidentally, no difficulty will be experienced in replacing the same, as the barrel members 1 and 2 will always be maintained in the correct relation to one another by the cap 14 so that the screw threads 11 will always be in alinement which would not be the case if the cap 14 were not threaded to the said members so as to prevent them from slipping.

It is obvious that those skilled in the art may vary the details of the invention without departing from the spirit thereof, and therefore, I do not wish to be limited to the above disclosure except as may be required by the claims.

What I claim is:—

1. In a non-sharpening metal pencil the combination of a pair of barrel members each provided with a longitudinal groove, forming a bore extending substantially the entire length of said members; means for spacing said barrel members apart at one end; screw threaded means for securing said members together at said end; adapted to prevent relative longitudinal movement of said members to each other; a marking member adapted to slidably engage said bore; and means engaging the other end of said members adapted to cause them to grip said marking member, substantially as described.

2. In a non-sharpening metal pencil the combination of a pair of barrel members each provided with a groove adapted to form a bore; means for spacing said members apart at one end; a readily removable erasing member associated with said barrel members; a screw threaded cap engaging said barrel members adapted to secure said erasing member to said barrel members and to prevent relative longitudinal movement of said barrel members to each other; a marking member adapted to slidably engage said bore; a follower associated with said marking member and adapted to control its position in said bore; and tapered screw threaded means engaging the other end of said barrel members adapted to cause them to grip said marking member, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses.

VICTOR STEELREATH.

Witnesses:

JNO. W. SCOTT,

W. M. FABER.