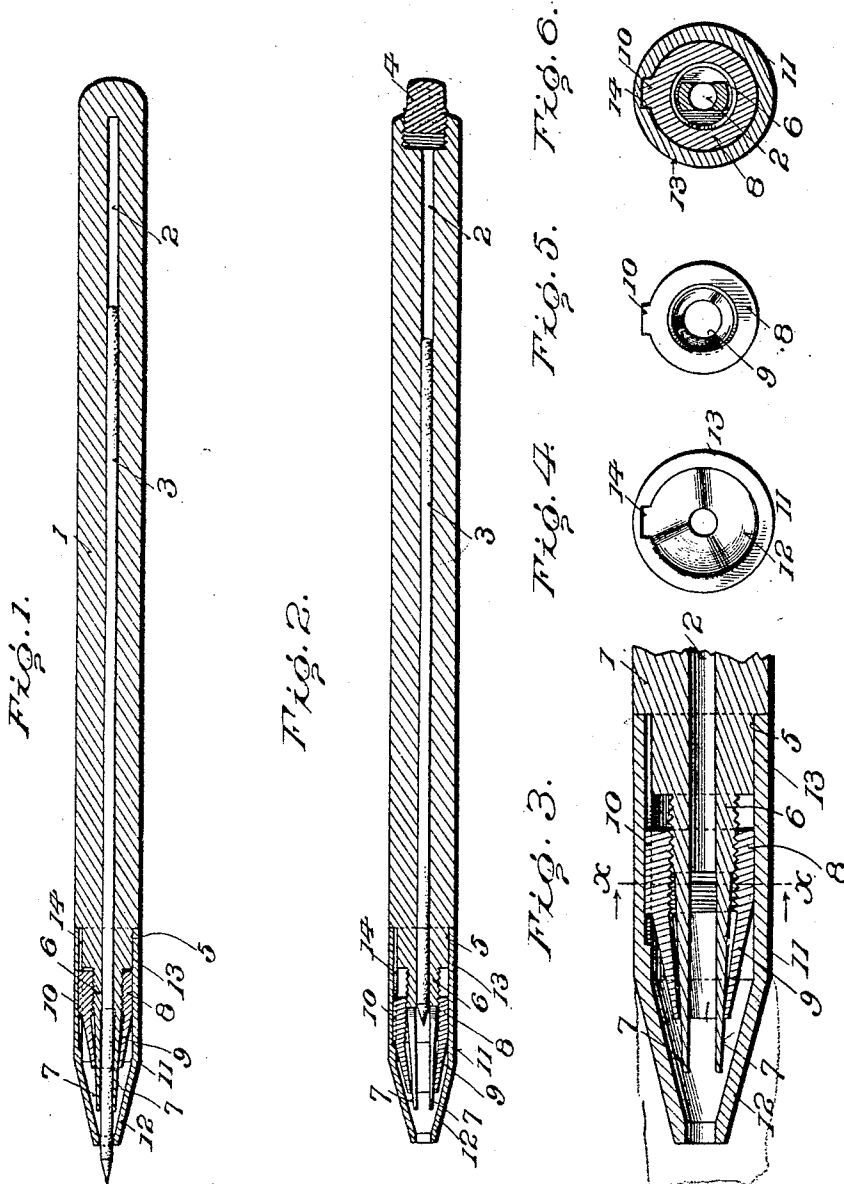


No. 848,531.

PATENTED MAR. 26, 1907.

J. C. BAUR.
PENCIL.

APPLICATION FILED NOV. 18, 1906.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN C. BAUR, OF ST. LOUIS, MISSOURI.

PENCIL.

No. 848,531.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed November 19, 1906. Serial No. 344,085.

To all whom it may concern:

Be it known that I, JOHN C. BAUR, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Pencils, of which the following is a specification.

The present invention relates to the variety of pencils usually designated as "ever-point" pencil and in which the lead fits loosely within the handle and is adapted to be fed and secured when projected beyond the nozzle to the required extent.

The purpose of the invention is to devise a pencil of the character aforesaid embodying novel securing means for the lead and which will admit of any part being readily replaced, since the construction is such as to provide for ready separation of the cooperating members for any desired purpose.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a central longitudinal section of a pencil embodying the invention. Fig. 2 is a view similar to Fig. 1, showing the clamp member moved forward and the end of the holder provided with a pencil-eraser. Fig. 3 is an enlarged section of the end of the handle provided with the clamp member and nozzle, showing the clamp member occupying a different position. Fig. 4 is an end view of the nozzle, showing the groove therein to receive the rib of the clamp member. Fig. 5 is an end view of the clamp member, showing more clearly the rib for cooperation with the inner groove of the nozzle. Fig. 6 is a transverse section on the line XX of Fig. 3.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The handle 1 of the pencil is formed with a longitudinal opening 2 for reception of the lead 3 and may be finished in any manner or constructed of any material best adapted for the purpose and according to the cost. As shown in Fig. 2, the end of the handle may be provided with a pencil-eraser 4, which is fitted in an opening of proper size formed in the end of the handle. The opposite end of the handle is reduced, as shown at 5, and is

further reduced, as indicated at 6, the latter portion being exteriorly threaded, whereas the reduced part 5 is smooth or plain. Prongs 7 project from the reduced end of the handle and are inclined upon the outer surfaces to admit of compression of the prongs when it is desired to grip the lead 3 to hold the same in an adjusted position. The prongs 7 may be any length and width, and it is the intention to have the same grip opposite sides of the lead upon turning the clamp member 8 upon the threaded portion 6 of the handle. The several parts of the handle, including the reduced portions 5 and 6 and the prongs 7, are preferable of integral formation.

The clamp member 8 is internally threaded to screw upon the reduced portion 6 and is formed with a tapered extension 9, which is adapted to engage with the outer inclined sides of the prongs 7 and press the same inward, so as to effect positive gripping of the lead 3.

A longitudinal rib 10 is formed upon the outer side of the clamp member 8 and forms interlocking connection with the nozzle 11, thereby admitting of turning the clamp member by rotating the nozzle when the handle is held stationary.

The nozzle 11 comprises a tapered end 12 and a sleeve 13, the latter being of a diameter corresponding to the diameter of the handle, so as to come flush with the outer sides thereof. The inner end of the sleeve 13 is adapted to form a close joint with the shoulder at the base of the reduced portion 5, and the opening of the sleeve is such as to snugly receive the reduced portion 5 and the clamp member 8. The longitudinal groove 14 of the nozzle is formed in the inner wall of the sleeve 13 and receives the rib 10, thereby forming, in conjunction with said rib, a feather-and-spline connection between the nozzle and clamp member, whereby they may receive a relative longitudinal movement, but are caused to rotate together. The opening in the end of the nozzle is of a size to just admit of the passage of the lead 3 without lateral play.

When the parts are assembled, the clamp member is mounted upon the threaded portion 6 of the handle, and its tapered end 9 embraces the prongs 7 and the nozzle encircles the reduced portion 5 of the handle and the clamp member, thereby concealing the working parts and giving a neat and finished appearance.

ished appearance to the pencil, while at the same time affording a firm grip being obtained thereon when it is required to turn the clamp member either to release or grip the lead. Upon turning the nozzle in one direction the clamp member may be rotated, thereby releasing the lead, so that it may be either pressed into the handle to preserve the point or may be advanced by a quick longitudinal movement of the handle in the manner well understood, after which the lead may be secured by rotating the nozzle and clamp member in the opposite direction to cause the tapered end 9 of the clamp member to ride rearward upon the prongs 7 and cause the same to grip the lead in a manner well understood.

Having thus described the invention, what is claimed as new is—

1. In a pencil of the character specified the combination of a handle having an opening to receive a lead and provided with gripping-prongs, a clamp member mounted upon the prongs and adapted to cause the same to grip the lead and secure the same in an adjusted position, and a nozzle mounted upon the handle and having interlocking connection with the clamp member to effect rotation thereof with the nozzle when turning the latter.

2. In a pencil of the character specified, the combination of a handle having an opening to receive lead and provided with prongs, a clamp member mounted upon the handle and prongs, and a nozzle fitted to the handle and adapted to rotate thereon and having a feather-and-spline connection with the clamp member whereby the latter may be both rotated and moved longitudinally upon imparting a turning movement to the clamp member solely.

3. In a pencil of the character specified, the combination of a handle having an opening therein and provided with a reduced portion exteriorly threaded, and with prongs, a clamp member mounted upon said prongs and having screw-thread connection with the reduced portion of the handle and a nozzle fitted to the handle and having a slip-joint connection therewith and having a feather-and-spline connection with the aforesaid clamp member, whereby the latter is both rotated and moved longitudinally upon the nozzle solely.

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

JOHN C. BAUR. [L. S.]

Witnesses:

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