Nov. 8, 1932. C B. OULTON 1,887,422

PENCIL SHARPENER

Filed Aug. 17, 1932

Fig. 1.

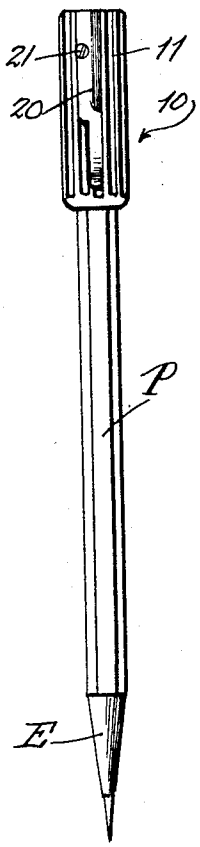


Fig. 3.

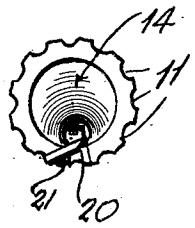


Fig. 7.

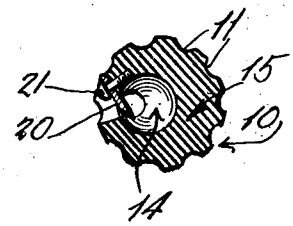


Fig. 4.

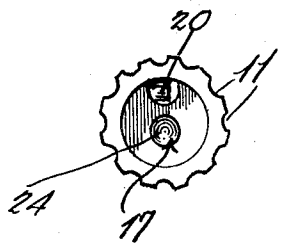


Fig. 8.

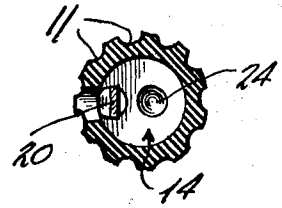


Fig. 6.

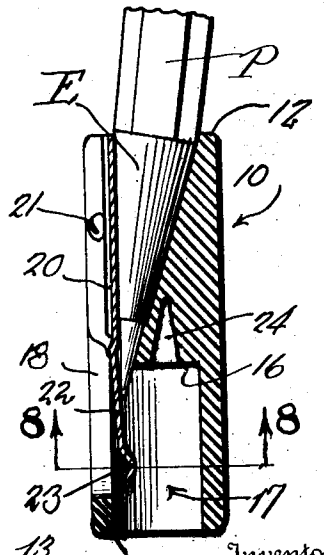


Fig. 5.

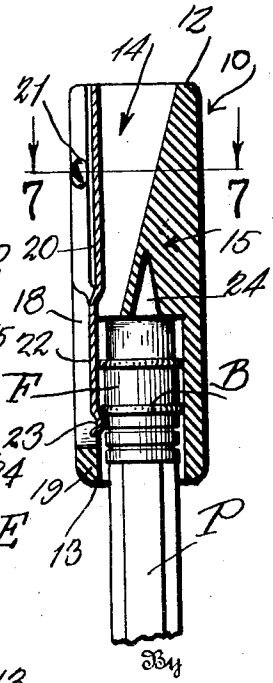


Fig. 2.

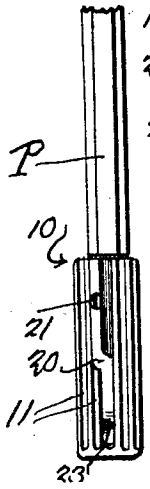
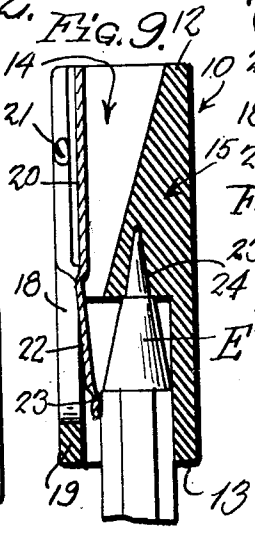


Fig. 9.



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UNITED STATES PATENT OFFICE

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PENCIL SHARPENER

Application filed August 17, 1932. Serial No. 629,201.

This invention relates to certain new and useful improvements in pencil sharpeners.

The primary object of the invention is to provide a pencil sharpener of the portable type comprising a tubular member provided with a pencil sharpening blade that carries a clasp extension whereby the pencil sharpener may be carried upon either end of the pencil with the clasp member engageable with the usual annular beads on the ferrule of the pencil or with a side of the pencil adjacent the pointed sharpened end.

A further object of the invention is to provide a portable pencil sharpener of the foregoing character in the form of a tubular member having a longitudinal slot in one side for the mounting of a combined sharpening blade and clasp extending into the bore of the tubular member, the interior body portion of the tubular member having a pocket therein to receive the sharpened pointed end of a pencil with the clasp engageable with a side of the pencil adjacent the pointed end for the protection of the sharpened pencil when out of use and said clasp being retained upon the opposite end of the pencil when the latter is in use by means of the clasp resiliently engaging the usual annular beads on the ferrule of the pencil.

With the above and other objects in view that will become apparent as the nature of the invention is better understood, the same consists in the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawing and claimed.

In the drawing:—

Figure 1 is a side elevational view of the pencil sharpener mounted upon the eraser carrying end of a pencil;

Figure 2 is a side elevational view of the sharpener with the pointed end of the pencil inserted therein for a sharpening operation;

Figure 3 is an end elevational view of the sharpener disclosing the sharpening blade extending into the interior of the sharpener from a side slot provided therein;

Figure 4 is an opposite end elevational view of the sharpener showing the spring clip for retaining the same in position upon an end of a pencil;

Figure 5 is a longitudinal sectional view of the sharpener showing the clasp extension on the sharpening blade with the clasp engaged with the annular beads of a pencil ferrule for retaining the sharpener in position on the pencil;

Figure 6 is a longitudinal sectional view, similar to Figure 5 showing the pointed end of the pencil inserted in the sharpening end of the device;

Figure 7 is a cross-sectional view taken on line 7—7 of Figure 5;

Figure 8 is a cross-sectional view taken on line 8—8 of Figure 6, showing the socket in the clasp carrying end of the sharpener to receive the pointed end of the pencil; and

Figure 9 is a longitudinal sectional view, similar to Figures 5 and 6, showing the pointed end of a pencil confined within the sharpener by means of the clasp.

Referring more in detail to the accompanying drawing, there is illustrated a pencil sharpener constructed of any suitable material desired, such as metal, hard rubber or the like, the pencil sharpener 10 being of cylindrical form and longitudinally corrugated as at 11 to facilitate sharpening rotation thereof when mounted upon the pointed end of a pencil. The cylindrical member of the pencil sharpener 10 includes the pencil sharpening end 12 and the pencil carrying end 13.

The pencil sharpening end 12 is provided with a canted conical recess 14 having one side thereof substantially parallel with the adjacent side of the cylindrical body of the sharpener while the other side inclined to provide an interior body portion 15 of increased diameter providing a transversely extending cross shoulder 16 at the inner end of

the socket 17 at the pencil carrying end 13 of the sharpener.

A longitudinally extending slot 18 is formed in the side of the cylindrical member of the sharpener and opens into the conical recess 14 and pocket 17 at the side of the sharpener spaced from the increased body portion 15 for the mounting of a combined pencil sharpening blade and pencil gripping clasp. The slot 18 extends completely through the pencil sharpening end 12 of the device and terminates inwardly of the pencil carrying end 13, being closed by the bridge piece 19. One of the walls of the slot 18 is tangentially disposed with respect to the cylindrical member of the sharpener for the mounting of a pencil sharpening blade 20 retained in position on the said wall by means of the screw 21 with the sharpened edge of the blade extending into the conical recess 14 as clearly illustrated in Figures 3 and 7. The blade 20 extends substantially the complete length of the conical recess 14 and at its inner end carries a laterally offset clasp extension 22 normally disposed within the pocket 17 at the pencil carrying end 13 of the device with an offset shoulder 23 adjacent the free end of the clasp 22.

When the pencil sharpener is out of use, the same may be carried upon the ferrule carrying end of the pencil P as shown in Figures 1 and 5 with the shoulder 23 of the clasp 22 resiliently engaged with an annular bead B carried by the pencil ferrule F. To sharpen the pencil P, the pencil is removed from the pocket 17 and the sharpening or pointed end E is inserted in the conical recess 14, rotation of the sharpener upon the pointed end of the pencil facilitated by the corrugations 14 producing a sharpened point on the pencil as shown in Figure 6. The sharpener may be carried by the pencil as shown in Figures 1 and 5 when the pencil is being used and when the pencil is out of service, the pointed or sharpened end E thereof is protected by the mounting of a sharpener on the pointed end of the pencil as illustrated in Figure 9. The cross wall 16 of the body portion 15 of the sharpener is provided with a conical socket 24 to receive the pointed end of the pencil with the clasp 22 engaged with a side of the pencil as illustrated in Figure 9 for retaining the sharpening device on the pencil.

While there is herein shown and described the preferred embodiment of the invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

I claim:—

1. A pencil sharpener comprising a cylindrical member having a socket in each end and a combined sharpening blade and clasp carried by the cylindrical member and respectively extending into the end sockets.

2. A pencil sharpener comprising a cylindrical member having a socket in each end and a longitudinal slot opening into both sockets and a combined sharpening blade and clasp mounted on a wall of the slot and respectively extending into the end sockets.

3. A pencil sharpener comprising a cylindrical member having a socket in each end and a combined sharpening blade and clasp carried by the cylindrical member and respectively extending into the end sockets, one of the sockets being in the form of a canted conical recess to receive the end of a pencil to be sharpened by the blade and the other socket being cylindrical with the pencil engaging clasp extending therein.

4. A pencil sharpener comprising a cylindrical member having a socket in each end and a longitudinal slot opening into both sockets and a combined sharpening blade and clasp mounted on a wall of the slot and respectively extending into the end sockets, one of the sockets being in the form of a canted conical recess to receive the end of a pencil to be sharpened by the blade and the other socket being cylindrical with the pencil engaging clasp extending therein.

5. A pencil sharpener comprising a cylindrical member having a socket in each end and a combined sharpening blade and clasp carried by the cylindrical member and respectively extending into the end sockets, one of the sockets being in the form of a canted conical recess to receive the end of a pencil to be sharpened by the blade and the other socket being cylindrical with the pencil engaging clasp extending therein, and a cross wall between the sockets having a conical recess therein to receive the pointed end of a pencil with a side of the pencil engaged by the clasp.

6. A pencil sharpener comprising a cylindrical member having a socket in each end and a longitudinal slot opening into both sockets and a combined sharpening blade and clasp mounted on a wall of the slot and respectively extending into the end sockets, one of the sockets being in the form of a canted conical recess to receive the end of a pencil to be sharpened by the blade and the other socket being cylindrical with the pencil engaging clasp extending therein, and a cross wall between the sockets having a conical recess therein to receive the pointed end of a pencil with a side of the pencil engaged by the clasp.

7. A pencil sharpener comprising a cylindrical member having a socket in each end and a combined sharpening blade and clasp carried by the cylindrical member and respectively extending into the end sockets, in combination with a pencil having a ferrule on one end with annular beads engageable by the clasp for retaining the sharpener on the pencil.

8. A pencil sharpener comprising a cylindrical member having a socket in each end and a combined sharpening blade and clasp carried by the cylindrical member and respectively extending into the end sockets, and said clasp being adapted for retaining engagement with the annular bead of a pencil ferrule positioned in the clasp receiving socket.

In testimony whereof I affix my signature.

CHARLES B. OULTON.