(Model.)

P. R. ERLING.

PENCIL SHARPENER.

No. 263,776. Patented Sept. 5, 1882.

Fig. 1.

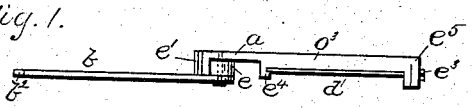


Fig. 2.

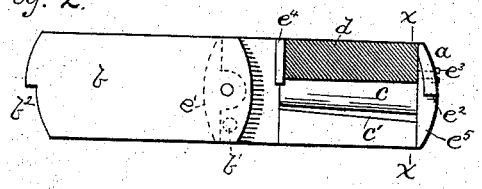


Fig. 3.

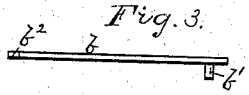


Fig. 4.

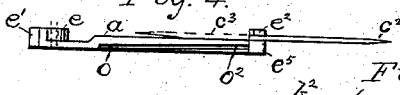


Fig. 5.

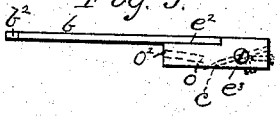
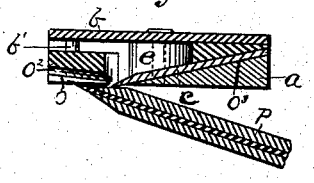


Fig. 6



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By Wm. Zimmerman

Atty.

UNITED STATES PATENT OFFICE.

PETER R. ERLING, OF CHICAGO, ILLINOIS.

PENCIL-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 263,776, dated September 5, 1882.

Application filed January 23, 1882. (Model.)

To all whom it may concern:

Be it known that I, PETER R. ERLING, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Pencil-Sharpeners; and I hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention relates to make and use the same, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 represents an inverted elevation of the device as seen from the back. Fig. 2 is a plan view of the same. Fig. 3 is a front view of the cover detached, Fig. 4 representing a front view of the sharpener. Fig. 5 is an end view of Fig. 2 with the cover turned at right angles to the sharpener. Fig. 6 is an enlarged cross-section of Fig. 2 on the line $x\,x$, with a pencil, p, applied.

Like letters of reference indicate like parts.

The object of my invention is to produce a pencil-sharpener which shall cut the wood incasing the lead in a smooth and regular manner, and without injury to the lead, and which may afterward be shaved and finally filed to the finest and most desirable point without danger of breaking the lead, and in which the knife can be resharpened and adjusted at pleasure, all as hereinafter more fully specified.

In the drawings, a represents the body of the instrument, provided with a blade having cutting-edge c, and file cut into the blade at d. Said blade is held in its place by the hook e^4 at one end and a set-screw, e^3, at the other, pressing against it, threaded in the head e^5, into which it may be countersunk. The back of the body is formed into an inclined plane, o^3, upon which the blade $c\,d$ rests, the edge c of which runs parallel with the sides of the body a. The end e^5 has a notch, e^2, which forms a stop for the lid b, provided with a corresponding notch, b^2. The other end of the body a has a head, e', provided with a round and solid part, e, through which a pin to hold the lid b passes, and upon which it turns. The lid has a stop or pin, b', which, when the lid is opened, strikes against the end e', and the lid thus forms a handle for the apparatus. The throat c' in front of the knife is made wider at the outer end, as shown, so as to pass larger shavings, and for this purpose, and also for the further purpose of cutting shavings of varying thickness, the part in front of the knife is cut back from the plane of the base o^3, so as to form both an angle and an offset with it, and said offset is cut deepest at the end on the line $x\,x$ and shallowest at the other end of the cutting-edge, as indicated at o^2 and o.

When so constructed my pencil-sharpener will cut large shavings when applied at its outer end, which may be gradually reduced to finer as the operation becomes more complete by applying the pencil p more toward the handle, where finally quite a fine shaving of wood and exposed lead is cut without danger of breaking the latter, which may then ultimately be finished with the file d.

Immediately over the part $o\,o^2$ a knife-blade or eraser, to open and close, may be attached. It is shown open at c^2 and closed at c^3. A hook like the one shown at e^4 may be attached to the head e^5 to hold the other end of the blade c, and then one or two set-screws, as shown dotted in Figs. 2 and 5, may be passed through the inclined plane o^3 to press against the under side of the blade and press it against said hooks, and thus hold it in place.

What I claim is—

1. In a pencil-sharpener, in combination with a combined knife and file, $c\,d$, the body a, having throat c', heads e' e^5, inclined plane o^3, and cover b, substantially as specified.

2. In a pencil-sharpener, the body a, having inclined plane o^3, throat c', and offset plane $o\,o^2$, in combination with a knife, c, substantially as specified.

3. A pencil-sharpener consisting of the body a, provided with inclined plane o^3 and adjustable combined file and knife $c\,d$, eraser c^2, and cover b, provided with stud b', substantially as specified.

4. In combination with the adjustable knife and file $c\,d$, the body a, having throat c' and heads e' and e^5, substantially as specified.

PETER R. ERLING.

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