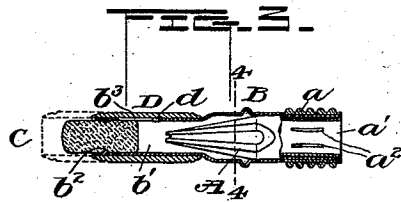
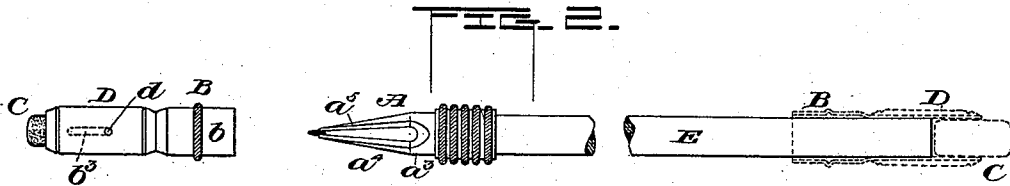
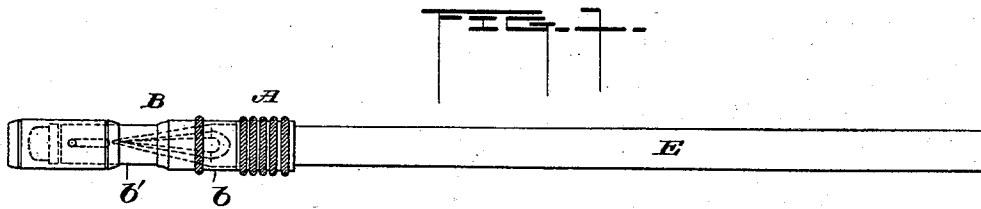


(No Model.)

C. S. FREER.
COMBINATION PENCIL POINT PROTECTOR.

No. 570,922.

Patented Nov. 10, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

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COMBINATION PENCIL-POINT PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 570,922, dated November 10, 1896.

Application filed March 18, 1896. Serial No. 583,739. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. FREER, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Combination Pencil-Point Protectors; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to pencil-point protectors; and it consists in an improved device in which is combined a point-protector, a pencil-sharpener, a rubber eraser, and an eraser shield or protector.

In the drawings, Figure 1 is a side view of my device applied to a pencil. Fig. 2 shows the point-protector removed. Fig. 3 is a longitudinal section of the device, and Fig. 4 is a cross-section on line 4 4, Fig. 3.

The invention comprises four parts, to wit, a pencil-sharpener A, a point-protector B, a rubber eraser C, and an eraser-shield D.

The sharpener A has a cylindrical base composed of an outer ornamental shell *a* and an inner sleeve *a'*, which is slotted longitudinally at *a²* and is curved inward slightly, so as to exert a spring-clamping action upon a lead-pencil E when the latter is slid into the sleeve. Between the shell *a* and the sleeve *a'* is secured one end of a steel pencil-sharpener, which has a cylindrical body *a³* and a conical end *a⁴*, which is ground away on one side to form a sharp cutting edge *a⁵*. The tip of the cone is also ground off to permit the lead of the pencil to project through it.

The point-protector B is composed of a cylindrical tube having at one end a portion *b* adapted to fit snugly over the body *a³* of the pencil-sharpener, and at the other end a portion *b'* of reduced diameter to receive and hold the rubber eraser C, which is a cylindrical block of rubber inserted into the tube *b'* and retained in place by an internal bead *b²*, which embeds itself in the rubber. The internal diameter of the portion *b'* is the same as that of the sleeve *a'*, so that when the tube B is removed from the pencil-sharpener it can be slipped upon the other end of the pencil, as indicated in dotted lines in Fig. 2, and

will be firmly held, so that the pencil will serve as a handle when using the eraser.

In one side of the portion *b'* of the tube B is a longitudinal slot *b³*, serving as a guide and stop for a pin *d*, projecting inwardly from a sleeve D, which has a snug sliding fit upon the tube *b'* and is of substantially the same length as said tube. This sleeve serves as a shield for the eraser C when pulled outwardly, as shown in Fig. 1, thus protecting it from dirt and rubbing. By sliding the shield back on the tube *b'* the eraser is exposed for use. The exterior of the shield is preferably ornamented by chasing or knurling or the like.

In using my invention the pencil-sharpener is left upon the pencil-point at all times, since the lead projects sufficiently for it to be used without removing the sharpener, which is thus always in position to be used in case the lead gets dull. When thus in use, the tube B, carrying the eraser C and shield D, is slipped upon the other end of the pencil, so that upon sliding back the shield the eraser can be used. When the pencil is to be replaced in the pocket of the owner, the tube B is slipped on over the sharpener, as shown in Fig. 1, and the shield D is pulled out, so that the pencil-point, the sharpener, and the eraser are fully protected.

I am aware that it is not a new idea to combine in one structure a pencil-sharpener and a point-protector. I therefore do not claim such a device; but,

What I do claim is—

An improved pencil-point protector, comprising a sharpener A having a base *a* provided with an internal yielding sleeve *a'*, a tube B having a portion *b* adapted to fit over the body *a³* of the sharpener and a reduced portion *b'* of the same diameter as the sleeve *a'* and having a longitudinal slot *b³*, a rubber eraser C held in the end of said tubular portion *b'*, and a sleeve D sliding upon said portion *b'* and adapted to cover or expose the eraser C, said sleeve being guided and limited in its movement by a pin *d* entering the slot in the tubular portion *b'*, substantially as described.

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

CHAS. S. FREER.

Witnesses:

AMBROSE G. TODD,
HENRY R. MAUR.