

*W. A. Morse.*  
*Pencil Sharpener.*

*N<sup>o</sup> 87,583.*

*Patented Mar. 9. 1869.*

*Fig: 1*



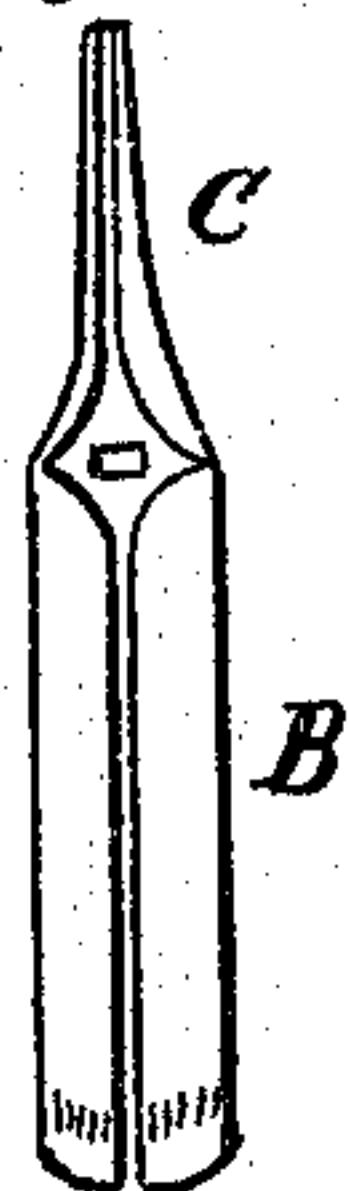
*Fig: 3*



*Fig: 4*



*Fig: 2*



*Fig: 5*



*Witnesses*  
*L. A. Davis*  
*H. W. Carlton*

*Inventor*  
*William A. Morse*



WILLIAM A. MORSE, OF PHILADELPHIA, PENNSYLVANIA.

*Letters Patent No. 87,583, dated March 9, 1869.*

**IMPROVEMENT IN COMBINED PEN AND PENCIL-HOLDER AND KNIFE.**

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, WILLIAM A. MORSE, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and improved Instrument for Sharpening Pencils, that can be readily attached to and detached from a common wood pencil; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to letters of reference marked thereon.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the annexed drawings—

Figure 1 represents a sheet-metal blank, from which the knife-handle and spring-clasp or cylinder are formed.

Figure 2 is a front view of the same after it is formed or pressed into shape.

Figure 3 shows the same attached to a common lead-pencil or the top of a pen-holder.

Figure 4 is the knife-blade, adapted to fit the handle C.

Figure 5 shows the knife-handle and spring-clasp in section, with back-spring F attached.

The blank C B, fig. 1, is cut with die and punch from such steel as is generally used in the manufacture of steel pens, though other metal may be used.

This blank is formed up, as shown at fig. 2, on a mandrel, in suitable dies, worked in a screw-press. The process is well understood by manufacturers of steel pens and pen-holders.

I then insert a mandrel, flattened at one end, and press the whole in a suitably-formed die, which forms the handle C, fig. 2, and leaves the spring-clasp or cylinder B of suitable size to firmly clasp the end of a common wood pencil.

I then insert the small steel-wire back-spring, F, fig. 5, and connect the same by inserting one end into the raised interior socket e, fig. 5. This spring serves to keep the knife in its place while being used, and may be attached by any known mechanical means.

The whole is then ready to insert the knife-blade, which I cut from thin sheet-steel, of about twenty-six gauge, and temper, grind, and polish in the usual way.

I find that the whole instrument, as above described, can be manufactured for one dollar a gross.

The manner of using my invention will be readily understood by the above description.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A knife-handle, C, with cylindrical spring-clasp B, substantially as shown and described.

2. The above-described instrument, in combination with a pencil or pen-holder, substantially as shown, and for the purpose specified.

WILLIAM A. MORSE.

Witnesses:

L. A. DAVIS,  
H. W. CARLON.