(Model.)

E. R. LOVETT.

SLATE PENCIL SHARPENER.

No. 458,032. Patented Aug. 18, 1891.



Fig. 1.



Fig. 2.



Fig. 3.

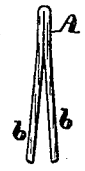


Fig. 4.



Fig. 5.

Witnesses:
Walter E. Lombard.
Eliot Glover

Inventor:
Eliphalet R. Lovett,
by N. C. Lombard
Attorney.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ELIPHALET R. LOVETT, OF LYNN, ASSIGNOR OF FOUR-FIFTHS TO LEWIS S. PEABODY, OF PEABODY, AND MAYNARD O. DAVIS, ARTEMAS S. CARR, AND JOSIAH H. PREBLE, OF LYNN, MASSACHUSETTS.

SLATE-PENCIL SHARPENER.

SPECIFICATION forming part of Letters Patent No. 458,032, dated August 18, 1891.

Application filed December 30, 1890. Serial No. 376,266. (Model.)

To all whom it may concern:

Be it known that I, ELIPHALET R. LOVETT, of Lynn, in the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Slate-Pencil Sharpeners, of which the following, taken in connection with the accompanying drawings, is a specification.

My present invention relates to slate-pencil sharpeners, is an improvement upon the invention described in another application of mine filed August 23, 1890, Serial No. 362,854, and has for its object a reduction in the cost of manufacture; and it consists in certain novel features of construction and arrangement of parts, which will be readily understood by reference to the description of the drawings, and to the claims hereinafter given, and in which my invention is clearly pointed out.

Figure 1 of the drawings is a plan of a prepared blank from which my improved sharpener is to be formed. Fig. 2 is an edge view of the same. Fig. 3 is a side elevation of the completed sharpener Fig. 4 is an edge view, and Fig. 5 a plan, of the same.

In the drawings, A is the prepared blank of sheet metal, having cut in each end thereof the acute V-shaped notch or slit *a*, thereby forming two tapering prongs *b* at each end of said blank, as shown.

In the manufacture of my improved slate-pencil sharpener I first die out from sheet or ribbon steel of suitable thickness the blank A, of the desired length and width, with the acute V-shaped notches *a a*, of equal length and taper, care being taken to form said notches with smooth sides at right angles to the flat sides of the blank. I then bend the end portions of said blank at the junctions of the prongs *b b* until the flat sides of said prongs occupy planes at an angle to the central portions of said blank corresponding to the angle of the sides of the notches *b b* relative to a line drawn through the apexes of said notches, as shown in dotted lines in Fig. 2, and then I bend said blank at the middle of its length in the opposite direction and fold one half thereof over upon the other half and press those portions between the apexes of said notch and the central line of fold firmly into contact and the prongs diverge from each other, as shown in Fig. 4; or, if preferred, the central bend may be made first and then the prongs may be spread or bent outward in the direction of the thickness of the blank to the desired angle, and then the whole is tempered. When completed, the prongs bear the same relation to each other and operate in substantially the same manner as in the sharpener described in my before-cited application.

The advantage of my invention is that it can be manufactured at a very much less cost than the sharpener described in said prior application and is equally as effective in performing the work desired.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The process of making slate-pencil sharpeners, which consists in cutting from sheet or ribbon steel of suitable thickness a blank of the desired length and width with an acute V-shaped notch in each end, bending said blank and folding one half of its length over upon the other half in such a manner that the two parts shall be in close contact from the central line of bend to the apexes of said V-shaped notches, while the prongs *b b* diverge from each other in the direction of the thickness of said blank at substantially the same angles that they diverge in the direction of the width of said blank.

2. A slate-pencil sharpener provided with four diverging prongs having inner cutting or grinding angular corners made from a single piece of sheet or ribbon steel folded upon itself at the middle of its length, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 24th day of December, A. D. 1890.

ELIPHALET R. LOVETT.

Witnesses:

N. C. LOMBARD,

WALTER E. LOMBARD.