

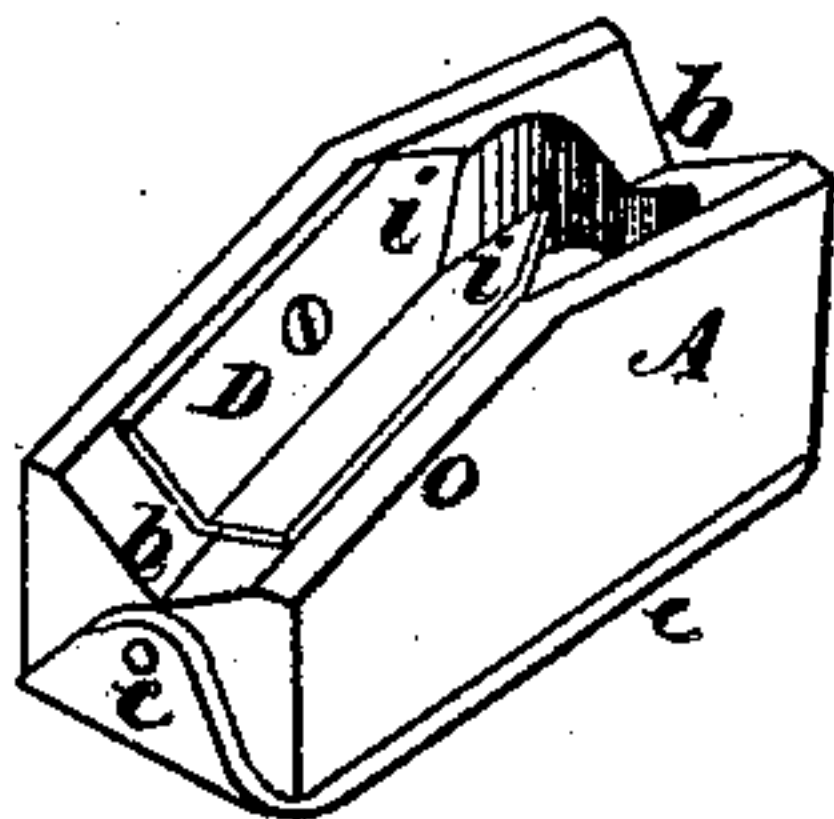
J. S. HALL.

COMBINED PENCIL-SHARPENER AND ERASER.

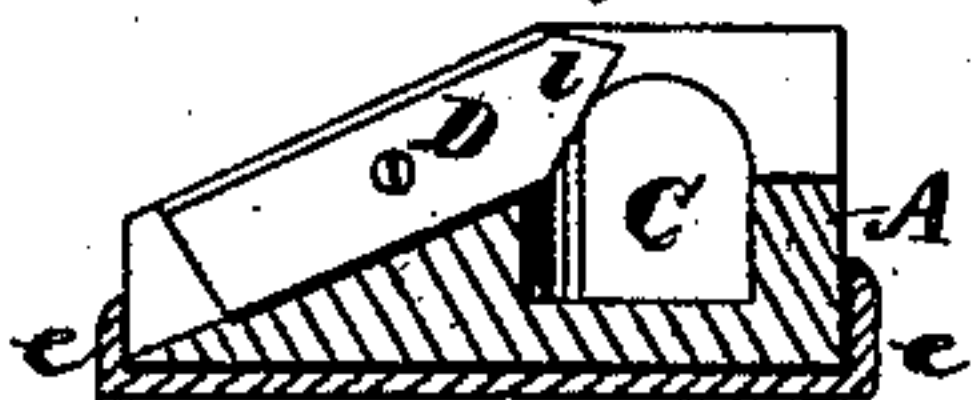
No. 170,083.

Patented Nov. 16, 1875.

*Fig. 1.*



*Fig. 2.*



Witnesses

*Geo. H. Strong.*  
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Inventor

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# UNITED STATES PATENT OFFICE.

JOHN S. HALL, OF SAN FRANCISCO, CALIFORNIA.

## IMPROVEMENT IN COMBINED PENCIL-SHARPENERS AND ERASERS.

Specification forming part of Letters Patent No. **170,083**, dated November 16, 1875; application filed March 17, 1875.

*To all whom it may concern:*

Be it known that I, JOHN S. HALL, of Monterey, Monterey county, State of California, have invented an Improved Slate-Pencil Sharpener and Eraser; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvement without further invention or experiment.

My invention relates to an improved instrument for sharpening slate-pencils, and with which I have combined an eraser for wiping off the pencil-marks from a slate.

In the accompanying drawings, *A* represents a block of wood or other suitable material, one of the upper corners of which is beveled off, as shown at *o*. In the upper face of this block, and in the face of the beveled portion, I make a V-groove, *b*. In the horizontal portion of the upper side of the block I bore a hole, *c*, which will form a cavity or well to receive the dust from the pencil. In the V-groove of the beveled portion of the block I secure a V-shaped cutter, *D*, so that its upper end will project over the edge of the cavity or well *c*. The upper end of the V-cutter is filed off at an angle, and the two angular sides *i i* thus produced are sharpened, so as to provide two diverging or V-shaped blades, between which the point of the pencil can be placed and sharpened by drawing it back and forth between the sharpened edges. The pencil-

dust will fall into the cavity, from which it can be removed when desired.

The cutter can be secured in the V-groove by any convenient means; but I prefer to employ a single screw, which passes through one side of the cutter into the block, so that, by taking out the screw, the cutter can be removed and sharpened.

The cavity *c* could be dispensed with, if desired, and the V-shaped cutter secured in a V-groove formed in a straight-faced block. In this case the block would have to be held at an angle to properly sharpen the pencil.

To the back of the block *A* I secure a piece of felting, cloth, or other soft fibrous material, *e*, by means of tacks, cement, or by other suitable means, so that it can be used as an eraser for rubbing the pencil-marks from the slate.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

As a new article of manufacture, a slate-pencil sharpener, consisting of the block *A*, having the beveled corners *o*, chamber *c*, a V-groove, *b*, in its upper face, the cutters *D*, provided with the angular V-shaped edges *i i*, and cloth eraser *e*, substantially as and for the purpose set forth.

In witness whereof I hereunto set my hand and seal.

JOHN S. HALL. [L. S.]

Witnesses:

M. R. MERRITT,  
M. E. WALTER.