

(No Model.)

E. G. PHILLIPS.
PENCIL SHARPENER.

No. 409,802.

Patented Aug. 27, 1889.

Fig. 1.

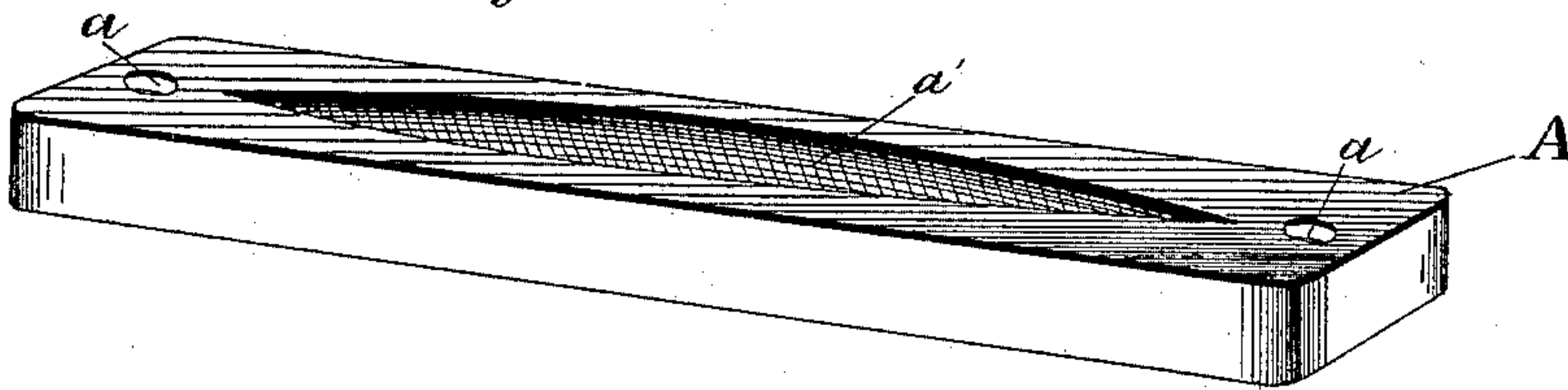


Fig. 2.

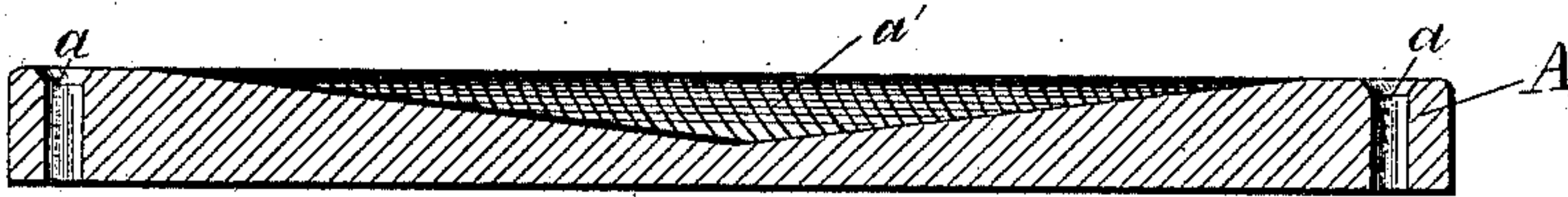
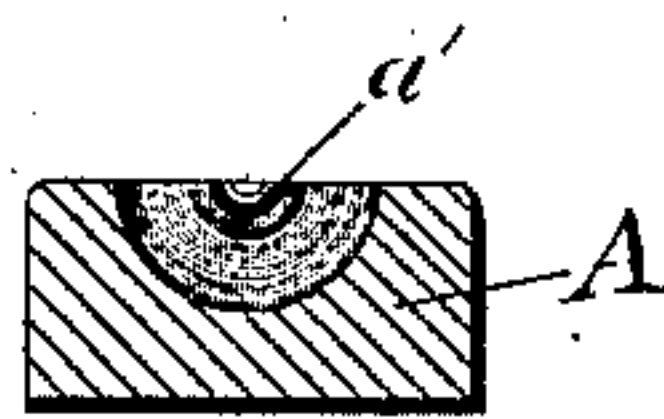


Fig. 3.



Witnesses

J. M. Litherow.

Inventor

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St. J. Riley By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

EDWIN G. PHILLIPS, OF CHARLESTON, SOUTH CAROLINA, ASSIGNOR OF TWO-THIRDS TO SAMUEL WEISKOFF AND THOMAS P. LIVINGSTON, BOTH OF SAME PLACE.

PENCIL-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 409,802, dated August 27, 1889.

Application filed June 15, 1889. Serial No. 314,343. (No model.)

To all whom it may concern:

Be it known that I, EDWIN G. PHILLIPS, a citizen of the United States, residing at Charleston, in the county of Charleston and State of South Carolina, have invented a new and useful Pencil-Sharpener, of which the following is a specification.

The invention relates to improvements in pencil-sharpeners.

The object of the present invention is to provide a pencil-sharpener adapted to be conveniently attached to a slate and capable of presenting a large amount of rubbing-surface, which shall be free from angles and not be liable to break the point of the pencil.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a pencil-sharpener constructed in accordance with this invention. Fig. 2 is a central longitudinal sectional view. Fig. 3 is a transverse sectional view.

Referring to the accompanying drawings, A designates a pencil-sharpener consisting of a plate constructed, preferably, of steel and having perforations *a*, designed to receive screws, by means of which the pencil-sharpener is fastened to a plate. The plate A is provided with a recess or concavity *a'*, the surface of which is roughened to provide a rubbing-surface for a pencil.

The U-shaped recess *a'* has curved sides and bottom, which is inclined toward the mid-

dle of the plate, as is most clearly shown in Fig. 2, and the upper edges of the recess converge from the middle toward the ends. By this construction a large amount of rubbing-surface entirely free from angles is presented to a pencil, thereby enabling the latter to be sharpened with great rapidity without liability of breaking the point. The curved sides of the recess reduces the pencil equally and prevents it becoming wedged and broken, as would be the case were the recess V shape in cross-section.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will readily be understood.

What I claim is—

1. A pencil-sharpener having a recess made U-shaped in cross-section and having sides converging from the middle of the recess toward the ends, substantially as described.

2. A pencil-sharpener provided with the recess *a'*, made U-shaped in cross-section, its bottom inclining downward toward the middle of the sharpener, and its upper edge converging from the middle toward the ends, whereby a rubbing-surface free from angles is provided, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

EDWIN G. PHILLIPS.

Witnesses:

T. SCHIADURIM,
JAMES B. EVANS.