

J. J. JONES.
PENCIL SHARPENER.
APPLICATION FILED JUNE 24, 1910.

1,004,435.

Patented Sept. 26, 1911.

Fig. 1.

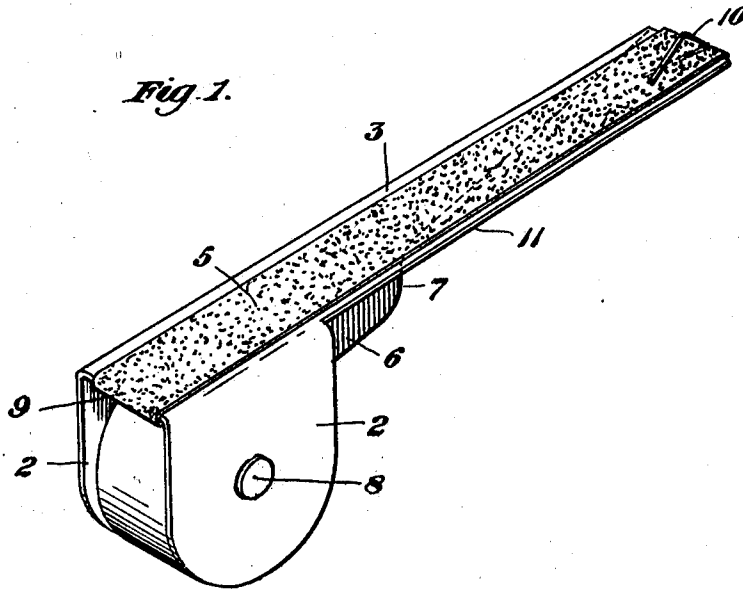


Fig. 2.

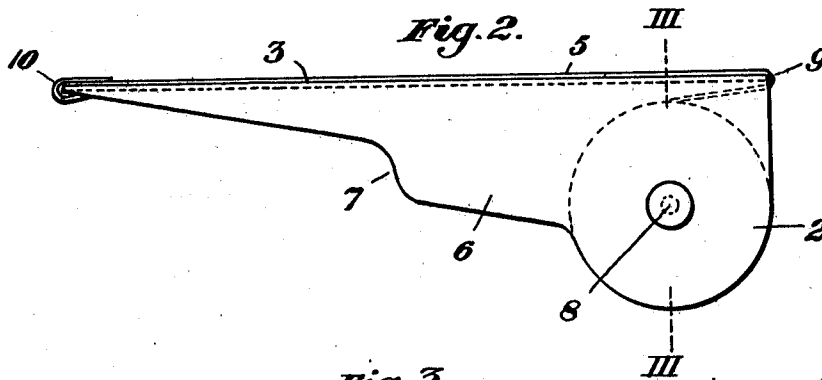
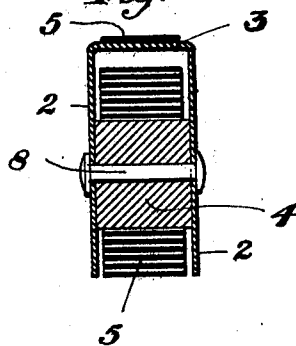


Fig. 3.



Witnesses:

Henry Sims.
Frank J. Clark.

Inventor:

Joshua J. Jones
by O. M. Clark
his attorney

UNITED STATES PATENT OFFICE.

JOSHUA J. JONES, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO
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PENCIL-SHARPENER.

1,004,435.

Specification of Letters Patent. Patented Sept. 26, 1911.

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To all whom it may concern:

Be it known that I, JOSHUA J. JONES, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Pencil-Sharpeners, of which the following is a specification.

My invention consists of an improvement in pencil sharpeners and comprises a frame or support of bent sheet metal adapted to be held easily in the hand and to contain a roll or strip of abrasive material, as sand or emery paper, adapted to be laid upon a flat straight base or shelf forming a part of the device, and secured thereto.

The invention is constructed and adapted for use in the manner hereinafter described.

Referring to the drawings:—Figure 1 is a view of the complete device in perspective. Fig. 2 is a side elevation from the opposite side. Fig. 3 is a cross sectional view on the line III. III. of Fig. 2.

In sharpening pencil points or the leads of compasses, etc., sand, carborundum or emery paper is commonly used in a series of layers, the upper layer being removed when used to expose a fresh surface. The thickness of the pad, however, prevents sharpening of lead for drawing instruments such as a bow compass, without first opening it, and as it is frequently desirable to sharpen the lead without changing the set of the compass, the thickness of the strip of sand paper and its support, upon which the lead is rubbed, should be reduced to a minimum. A further objection to sand paper strips which are used and then discarded, is that such strips are ordinarily available for their middle portion only.

In my invention, I utilize the entire length of a continuous strip, in short successive portions thereof, as the strip is drawn out from the main reel. The device as a whole consists practically of one piece of sheet metal bent to provide side pieces 2, 2, extending downwardly at right angles to an intervening integral base 3, the sides 2, 2, being spaced apart sufficiently far to admit of a spool or reel 4, upon which is wound the abrasive material, as sand or emery paper or cloth 5.

The middle intervening portion 3 is extended outwardly beyond the sides 2 for a sufficient distance as shown, and at one side,

preferably the left side, as shown in Fig. 1, the side 2 is extended along substantially to the end of the base 3, forming a side wall 6. Such wall firmly supports and braces the shelf 3 and at a point sufficiently beyond the side 2 it is offset as indicated at 7, whereby to provide a bearing shoulder for the end of the index finger of the left hand.

By this construction, I provide a "pistol grip" shape for conveniently holding the device while using the pencil or instrument upon it with the other hand.

The spool 4 carrying the strip 5 of abrasive material is pivotally mounted between the sides 2 upon the pin 8 of any suitable construction, preferably removable for renewal of the strip. The strip is wound upon the spool with the abrasive face inwardly and the free end of the strip is drawn off of the spool backwardly and bent around the rear edge of the base 3 as indicated at 9 and laid along the full length of the base and secured upon it in any suitable manner as by a clip or fastener 10. A similar clip may also be used at the other end if desired. By this arrangement, it will be seen that a holding kink is formed in the strip at the point 9 and when secured at its other end, the strip will lie flat upon the base, with its edge closely adjacent to the free edge 11 opposite the side 6. By this arrangement the entire thickness of the strip itself and the base 3 is reduced to a minimum while the base is amply braced and provides a rigid support for the strip, by reason of the reinforcing side, formed for secure holding by the hand.

The advantages of the invention will be appreciated by those accustomed to the frequent sharpening of lead points. The facility of inserting the base and its thin abrasive strip between the terminal legs of a compass or similar drafting instrument enables the user to renew the point without disturbing the set of the instrument, while it is of equal advantage for an ordinary pencil. The device is very simple and cheap in construction and economical of abrasive material, enabling all of the strip's surface to be utilized without waste, the used portion being cut off and a new strip being drawn forwardly to any desired extent. It is small and portable, not liable to get out of order and may be made in various sizes and proportions to suit the user.

What I claim is:—

1. A pencil sharpening device consisting of a sheet metal frame having a longitudinal flat supporting base terminating in a thin edge at one side and having at one end integral downwardly bent rounded sides providing bearings for a rolled strip and also a grasping terminal, an integral supporting and bracing extension of one of said sides and of the supporting base extending longitudinally under one edge of the base toward the other end thereof and having a finger-bearing portion, a roll of abrasive material pivotally mounted between the sides having its free end drawn abruptly over the end of the base and the top thereof, and means securing the end of the strip to the other end of the base, substantially as set forth.
2. A pencil sharpening device consisting

of a sheet metal frame having a longitudinal flat supporting base terminating in a thin edge at one side and having at one end integral downwardly bent rounded sides, an integral extension of one of said sides tapering upwardly toward the other end of the base and providing a support therefor and having an offset finger bearing portion, a roll of abrasive material pivotally mounted between the sides having its free end drawn over the top of said supporting base, and means securing the end of the strip to the end of the base, substantially as set forth.

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

JOSHUA J. JONES.

Witnesses:

GEO. J. TAYLOR,
BRABAZON RUTHERFOORD.