

Oct. 2, 1923.

1,469,432

H. BERNHARD

PENCIL SHARPENER

Filed July 14, 1921

Fig. 1.

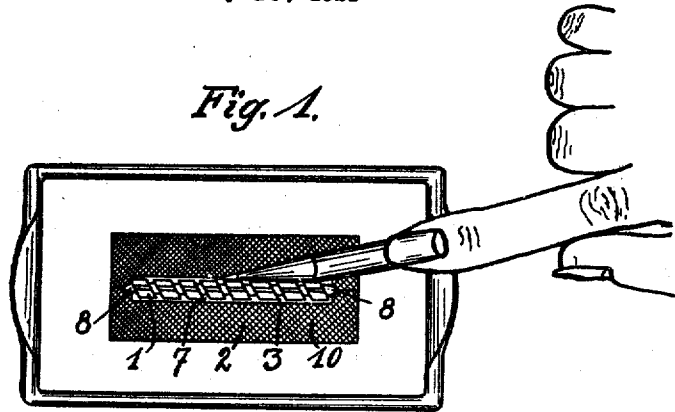


Fig. 2.

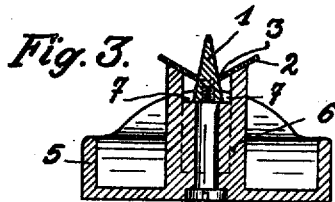
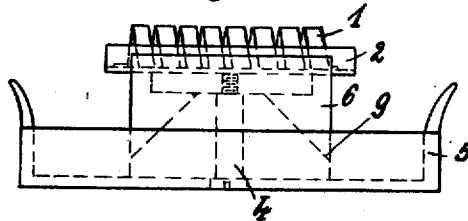


Fig. 4.



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UNITED STATES PATENT OFFICE.

HANS BERNHARD, OF BERNE, SWITZERLAND.

PENCIL SHARPENER.

Application filed July 14, 1921. Serial No. 484,758.

To all whom it may concern:

Be it known that I, HANS BERNHARD, a citizen of Switzerland, and residing at Berne, Canton of Berne, Switzerland, have invented certain new and useful Improvements in Pencil Sharpeners, of which the following is a specification.

The present invention relates to a pencil sharpener operated by hand with a reciprocating movement and consists of an upright blade provided with a row of parallel oblique grooves made by milling and presenting on at least one side sharp cutting edges and of a guide plate joining on the side face of the cutting edges at an acute angle to the blade so as to form a kind of a furrow provided at its surface with file cuts in order to cause, when the pencil held at a slight inclination, is executing its reciprocating movement and is sliding with its point on the ground of the furrow, the wood to be cut on the cutting edges and the lead to be sharpened by the file cuts.

The annexed drawing represents three forms of the object of the invention.

Fig. 1 is a plan,

Fig. 2 a side elevation, and

Fig. 3 a cross section of a first form,

Fig. 4 is a perspective view of a blade according to Figures 1 to 3.

With regard to Figures 1 to 3, 1 is an upright blade provided with a row of parallel oblique grooves made by milling and presenting on both sides sharp cutting edges. This blade projects from out of a longitudinal slot 3 spaced within a channel-shaped guide plate 2 which plate being provided with file cuts 10 is adapted to point the lead of the pencil. The blade 1 fixed by a single screw 4 on the center line of a base plate 5 having bent up borders is located between two upright parallel edges 6 upon the beveled edges of which the guide plate 2 is held fast by means of two claws 8 provided at the two ends of blade 1. By this arrangement two lateral slots 7 are spaced between the two ridges on both sides of the blade, said slots having slanting bottoms 9 in order

to facilitate the evacuating of the lead dust from the guide plate 2 to the base plate 5, where also the wood cuttings will be collected. When using this device the lead pencil has to be kept at a slight inclination and bearing with its point to the bottom of the channel formed by the blade 1 and the guide plate 2 and has to be moved to and fro while pressing the wood against the cutting edges of the blade. In doing so the wood of the pencil will be shaved by the cutting edges and the lead be sharpened on the file cuts, the cuttings and filings dropping to the base plate.

Having now fully shown and described the nature of my invention, what I claim as new and wish to secure by Letters Patent is:

1. In a pencil sharpener operated by hand with a reciprocating movement and in combination, an upright blade with a row of parallel oblique grooves or rather indentations presenting on both sides sharp cutting edges, a channel-shaped guide-plate at the bottom of said blade and having a central slot through which the blade is passing so as to leave lateral slots allowing the evacuation of the lead dust, while the wood cuttings will drop from both ends of the guide-plate.

2. In a pencil sharpener operated by hand with a reciprocating movement and in combination, an upright blade provided with cutting edges and with a claw at each end, a base-plate with two central parallel ridges forming a channel adapted to receive the blade, a guide-plate having a central slot into which the foot of the blade is extended so as to rest with the claws on the guide-plate and a screw screwed from the bottom into the blade so as to hold it down to the base-plate together with the guide-plate.

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

HANS BERNHARD.

Witnesses:

R. HEINGARTNER,
E. M. HERRMANN.