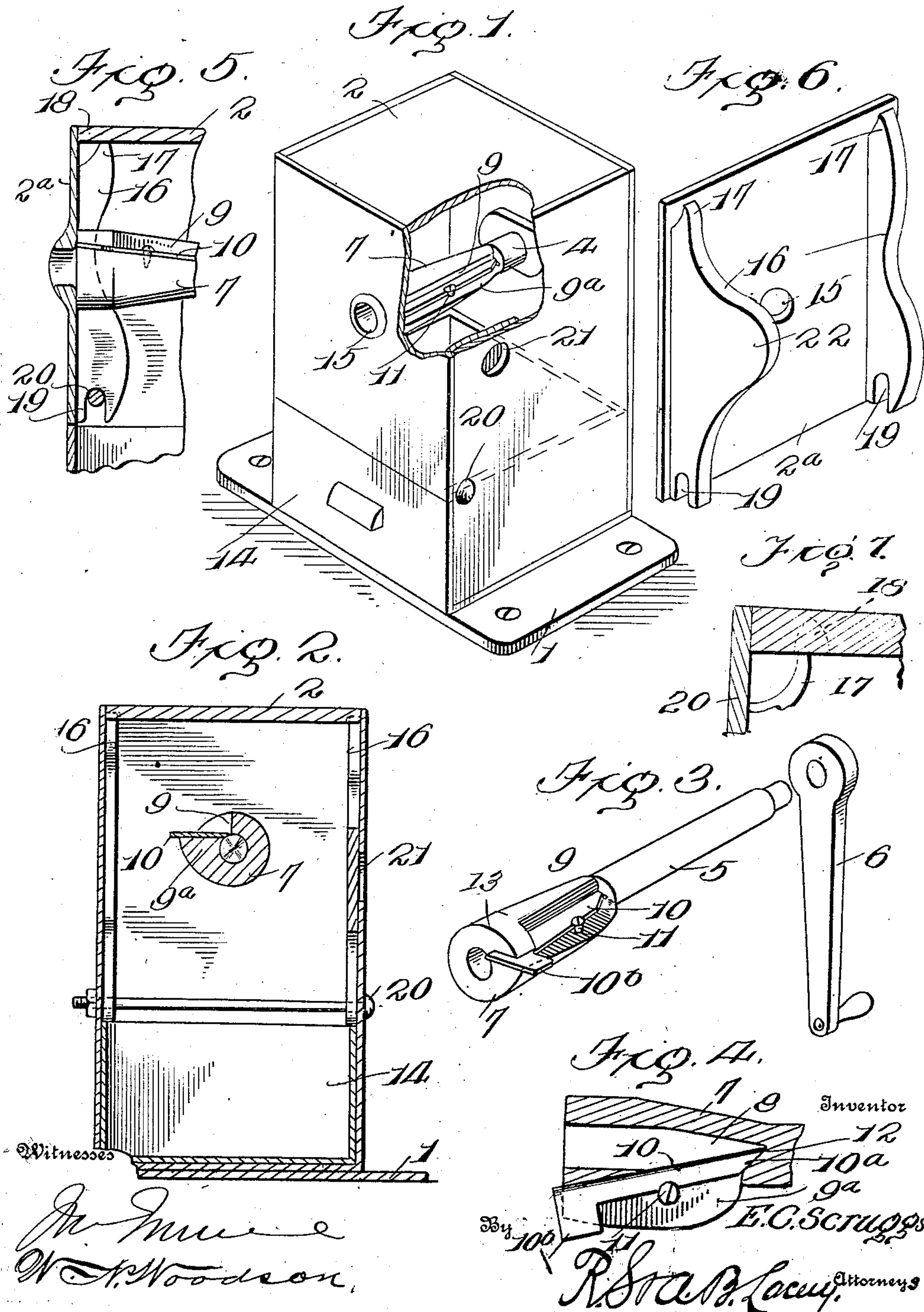


E. C. SCRUGGS.
PENCIL SHARPENER.
APPLICATION FILED SEPT. 16, 1908.

935,823.

Patented Oct. 5, 1909



UNITED STATES PATENT OFFICE.

EDWARD C. SCRUGGS, OF NASHVILLE, TENNESSEE.

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Specification of Letters Patent.

Patented Oct. 5, 1909.

Application filed September 16, 1908. Serial No. 453,337.

To all whom it may concern:

Be it known that I, EDWARD C. SCRUGGS, citizen of the United States, residing at Nashville, in the county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Pencil-Sharpeners, of which the following is a specification.

The present invention relates to improvements in pencil sharpeners and the object of the invention is the provision of a device of this character embodying a novel means for mounting the cutting knife whereby compensation can be made for the cutting away of the same when sharpened.

The invention further contemplates a novel casing for the cutting mechanism, the said casing effectively inclosing the mechanism so as to exclude all dust and dirt therefrom when in use, but at the same time enabling ready access to be had to the cutter head should it be desired to sharpen the blade or adjust the same.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of the pencil sharpener embodying the invention, a portion of the casing being broken away; Fig. 2 is a vertical sectional view through the pencil sharpener; Fig. 3 is a detail view of the cutter and crank handle; Fig. 4 is an enlarged sectional view through the cutter head; Fig. 5 is a sectional view through the front of the casing, the cutter head being shown in position therein; and Fig. 6 is a detail perspective view of the removable plate for closing the front of the casing.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the present embodiment of the invention, the numeral 1 designates the base upon which the casing 2 is mounted, the said base projecting laterally beyond the casing and constituting a means whereby the pencil sharpener can be readily secured to a desk or other suitable support. The back of the casing is formed with a shaft receiving opening and a bearing sleeve 4 is applied to the interior of the casing so as to register with the opening. Journaled

within this bearing sleeve 4 is a shaft 5 one end of which projects upon the exterior of the casing and has a crank handle 6 detachably applied thereto while the opposite end terminates in a cutter head 7. This cutter head is formed with the usual conical opening 8 which is designed to receive the end of the pencil being sharpened and is arranged in alinement with the axis of the shaft.

One side of the cutter head is cut away at 9, the said cut away portion communicating with the conical opening 8 and being formed with a flat side 9^a against which the blade 10 is fitted. One of the longitudinal edges of the blade is sharpened in the usual manner and projects within the conical opening 8 while the opposite longitudinal edge is engaged by the head of a screw 11. It will also be observed that the inner end of the blade is beveled at 10^a and fits within the recess 12 at the inner end of the cut away portion 9, the said recess being formed with an inclined wall which coöperates with the beveled end 10^a of the blade to cause the cutting edge to project farther within the conical opening as the blade is moved inwardly. It will thus be obvious that compensation can be readily made for the loss of metal when the blade is sharpened since by moving the blade longitudinally the cutting edge can be caused to project more or less into the conical opening as desired. The outer end of the blade is extended laterally at 10^b to form a finger-piece which can be gripped when placing the blade in position or removing it therefrom. It will also be observed that this outer end of the blade fits within a slot 13 which coöperates with the recess 12 and the screw 11 to prevent any lateral turning of the blade.

A removable drawer 14 is mounted within the casing under the cutter head 7 and serves to receive the shavings from the pencil and to retain them in such a manner that they can be readily removed when necessary. The front of the casing is closed by a removable plate 2^a having an opening 15 therein which is in alinement with the shaft 5 and through which the end of the pencil to be sharpened is inserted. A pair of vertical ribs 16 are provided at opposite sides of the plate 2^a, the upper ends terminating in the tongues 17 which engage niches 18 in the top of the casing while the lower ends of the ribs are notched at 19 to engage a transverse pin 20 passing removably through

openings in the sides of the casing. When this pin is in position the tongues 17 are held in engagement with the niches 18 and the plate is held securely in position, while as soon as the pin has been removed the plate can be displaced. One side of the casing has an opening 21 formed therein, the said opening being located directly opposite the cutter head and being designed to receive a screw driver or light tool for loosening the screw 11 when it is desired to remove the blade 10. This opening is normally closed by a flange 22 which projects inwardly from one of the ribs 16. It will thus be obvious that as long as the removable plate 2^a is in position the opening 21 is closed and the cutting mechanism is closely housed, while as soon as the plate has been displaced a screw driver can be inserted through the opening 21 to loosen the screw 11 and the blade removed or other repairs made as may be necessary.

Having thus described the invention, what is claimed as new is:

25 1. A pencil sharpener embodying a rotary cutter head having a conical recess therein to receive the pencil point and cut away on one side, the said cut away portion communicating with the conical recess and having a flat side and a recess with an inclined wall being formed at the inner end of the cut away portion, a cutting blade applied to the flat side and formed with a sharpened edge which projects within the conical recess, the end of the blade being beveled and engaging the inclined wall of the recess at the inner end of the cut away portion so that by moving the blade longitudinally it can be caused

to project more or less into the conical recess, and means for securing the blade in an adjusted position.

2. In a pencil sharpener, the combination of a casing formed with an open front and having niches in the top thereof, a rotary cutter head mounted within the casing, a removable plate closing the open front of the casing and formed with an opening through which the pencil is designed to be inserted for engagement with the cutter head, ribs upon the plate, the ribs each terminating at one end in a tongue for engagement with the niches in the top of the casing and being notched at the opposite end, and a pin passing through the sides of the casing and engaging the notches to hold the plate in position.

3. In a pencil sharpener, the combination of a casing formed with an open front, a rotary cutter head mounted within the casing, a removable blade upon the cutter head, a fastening member for clamping the blade in an adjusted position, one side of the casing being formed with an opening through which a tool can be inserted for manipulating the fastening member, and a removable plate for closing the open front of the casing, the said removable plate carrying a flange for closing the opening in the side of the casing.

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

his
EDWARD C. X SCRUGGS. [L. S.]
mark

Witnesses:

W. B. BALLARD,
G. A. LANIER.