

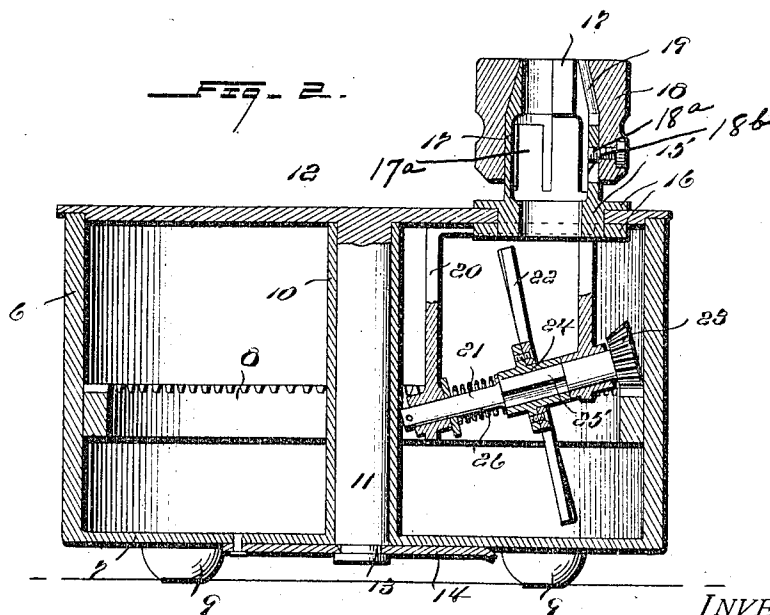
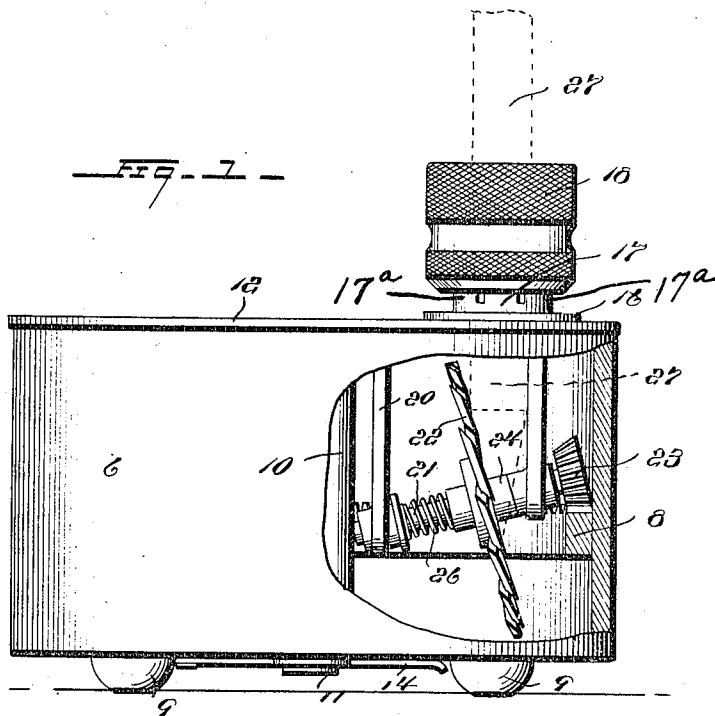
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PATENTED SEPT. 25, 1906.

F. J. STUTESMAN & B. F. FERTICK.

PENCIL SHARPENER.

APPLICATION FILED SEPT. 29, 1905.



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UNITED STATES PATENT OFFICE.

FRANK J. STUTESMAN AND BENJAMIN F. FERTICK, OF CHICAGO, ILLINOIS;
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PENCIL-SHARPENER.

No. 831,753.

Specification of Letters Patent.

Patented Sept. 25, 1906.

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To all whom it may concern:

Be it known that we, FRANK J. STUTESMAN and BENJAMIN F. FERTICK, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Pencil-Sharpeners, of which the following is a specification.

This invention is a pencil-sharpening machine having a rotary cutter mounted upon an arbor in a circular casing containing a rack with which a pinion on the arbor meshes. The top or cover of the casing contains a thimble in which the pencil is inserted and gripped, and by revolution of the pencil and cover the cutter-wheel is caused to rotate and sharpen the pencil, as will more fully hereinafter appear.

The object of the invention is to form an improved device of the kind.

In the accompanying drawings, Figure 1 is a side elevation of the machine. Fig. 2 is a central vertical section.

Referring specifically to the drawings, 6 indicates an outer cylindrical casing having a bottom 7 and an internal annular rack 8, extending around the side wall thereof. The casing is mounted upon rubber feet 9, so that it will not readily slip out of position when in use. At the center of the casing is a vertical sleeve 10, within which fits the spindle 11, depending from the top 12. The spindle 11 extends through the bottom of the casing and has a groove 13, which receives a latch 14, 35 pivoted to the bottom of the casing. When the latch is engaged, the spindle and cover are held in position and lift is prevented.

Mounted upon the cover 12, in an opening therein, is a ring 15, which is flanged at its outer edge, as at 16, to embrace the edge of the cover at the opening. The opening is circular, so that the ring turns freely therein. Projecting upwardly from the ring are several spring-fingers 17, encircling which is a thimble 18, which is movable to a limited or sufficient extent up and down thereon. At the top the bore of the thimble is tapered or beveled, as at 19, and this beveled portion rests against the spring-fingers. Between the fingers are shorter rigid guide-pieces 17^a, 50 on which the thimble slides up and down, the extent of its movement being limited by a screw 18^a, which projects from the thimble

into a vertical slot 18^b in one of the guide-pieces.

Riveted to the under side of the cover 12 is a bracket 20, having two arms which support the spindle 21 of the wheel of blades 22. At its outer end the spindle has a pinion 23, which rests upon and meshes with the rack 8. The hub 24 of the wheel fits over a squared portion 25 of the spindle 21, so that rotation of the wheel is effected and axial movement along the spindle is permitted. Pressing behind the wheel is a coiled spring 26.

In operation the pencil (indicated in dotted lines at 27) is inserted through the thimble and ring on the cover of the machine. The wheel 22 is so positioned that the pencil comes against the same at the proper angle to give the desired point to the pencil. Downward pressure on the thimble 18 contracts the fingers 17 against the pencil, holding the same firmly. The thimble and pencil are then revolved, carrying the pinion 75 around the rack and revolving the blades against the side of the pencil. The spring 26 causes the proper pressure of the blades against the point of the pencil to cause them to take into the wood and cut the same. The cuttings and dust fall into the casing below, where they are retained until it is necessary to empty the same, which can be done by unlatching the latch 14 and removing the cover. When the pencil is sharpened, the thimble 18 is released and the fingers 17 open to permit the pencil to be pulled out.

A noticeable feature of the wheel of blades is that it is reversible—that is, the blades are sharpened on both sides, and when one of the edges becomes dull the wheel can be taken off the spindle and reversed, so that the other edge will be presented to the pencil.

What we claim as new, and desire to secure by Letters Patent, is—

1. A pencil-sharpener comprising a casing having a rotatable cover thereon, a pencil-holding chuck mounted on the cover and forming a handhold to rotate the cover, a cutting device within the casing, carried by the cover, and means for operating the cutting device by the rotation of the cover.

2. A pencil-sharpener comprising a casing having an annular rack therein, a rotatable cover on the casing having an opening through which a pencil may be inserted,

means on the cover to grip and hold the pencil, and a wheel of blades carried on the under side of the cover, below said opening, and having a pinion meshing with the rack.

5 3. A pencil-sharpener comprising a cylindrical casing having a central tube and an annular rack, a rotary cover having a spindle depending through the tube and an opening provided with a holding device through
10 which the end of the pencil is inserted into the casing, and a wheel of blades supported on the under side of the cover, below the opening, and having a shaft with a pinion meshing with the rack.

15 4. A pencil-sharpener comprising a cup-shaped case having a rotatable cover provided with a perforation, a handle having one end secured in said perforation and having therethrough a longitudinal opening, adjustable means arranged in said handle and
20 adapted to engage and hold a pencil, an annular row of teeth projecting from the inner face of the wall of the case, a frame connected with the under side of the cover, an axle having bearings in said frame and carrying a pinion engaging said teeth, and a rotary cutter
25 mounted on said axle and adapted to rotate therewith.

30 5. A pencil-sharpener comprising a case having a vertical annular wall and a rotatable removable cover provided with a perforation, a vertical handle rotatably secured in said perforation and provided with a longitudinal

opening to receive a pencil, adjustable means 35 arranged in said handle and adapted to hold a pencil, an annular row of teeth connected with the inner face of the said wall, a frame secured to the under face of said cover; an axle mounted in said frame, a pinion secured on one end of said axle and adapted when the
40 cover is rotated to be engaged and rotated by the said teeth, and a rotary cutter having a hub slidably mounted on said axle, all for the purpose described.

6. A pencil-sharpener comprising a case 45 having a base, a vertical annular wall, and a removable rotatable cover having a perforation; a vertical handle rotatably secured in said perforation and provided with a longitudinal opening to receive a pencil; a chuck arranged in said handle and adapted to hold
50 said pencil; an annular row of teeth formed on the inner face of said wall; a frame secured to the under side of said cover; an axle mounted in said frame and having a pinion adapted to be engaged and rotated by said teeth; and
55 a rotary cutter slidably mounted on said axle, all for the purpose described.

In testimony whereof we have signed our names to this specification in the presence of
60 two subscribing witnesses.

FRANK J. STUTESMAN.
BENJAMIN F. FERTICK.

Witnesses:

CLARA PROSCHE,
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