

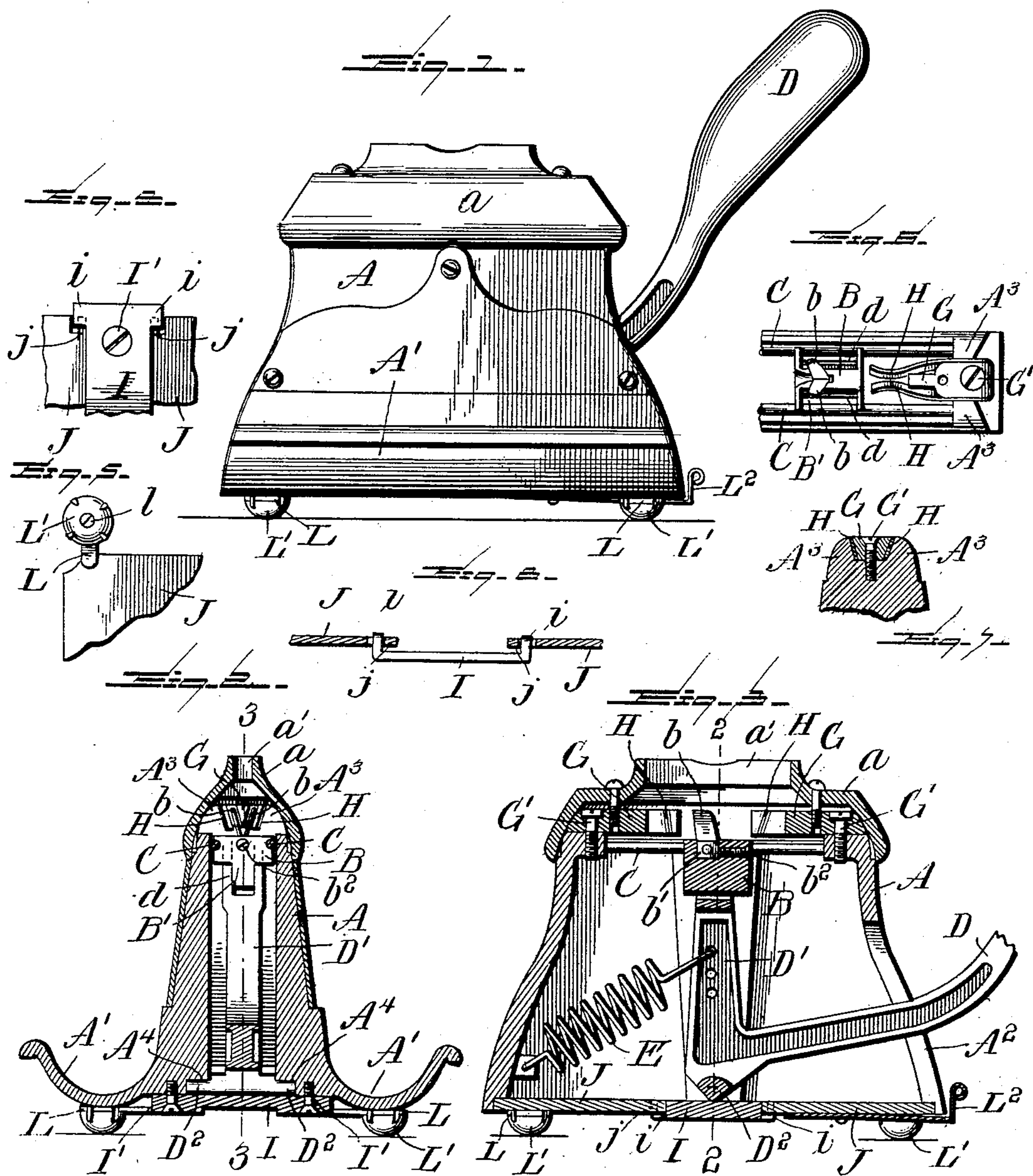
No. 704,365.

Patented July 8, 1902.

A. P. PETERSON.
CRAYON SHARPENER.

(Application filed Dec. 26, 1901.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

ANDREW PETER PETERSON, OF RACINE, WISCONSIN.

CRAYON-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 704,365, dated July 8, 1902.

Application filed December 26, 1901. Serial No. 87,253. (No model.)

To all whom it may concern:

Be it known that I, ANDREW PETER PETERSON, of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Crayon-Sharpeners; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

This invention is an improved machine for sharpening crayons, chalks, &c., especially designed for sharpening tailors' crayons and to give them a perfectly-beveled straight edge and do the work quickly and easily and to catch the waste trimmings of the crayons, so that they will not fall upon the goods or floors, and the machine also affords a convenient holder for crayons, pencils, &c.

The invention consists in the novel constructions and combinations of parts summarized in the claims hereto appended, and in the accompanying drawings I have illustrated the best form of the machine now known to me, although I do not confine myself to the specific structure therein shown.

In said drawings, Figure 1 is a side view of the device; Fig. 2, a transverse section on line 2 2, Fig. 3; Fig. 3, a longitudinal section on line 3 3, Fig. 2. Fig. 4 is a detail bottom view of the hinge-joint between plates I and J. Fig. 5 is a detail view of the plate-holding device. Fig. 6 is a detail top plan view of the cutting-knives and their connections. Fig. 7 is a detail sectional view of the stop and spring-fingers for holding the crayon in position. Fig. 8 is a detail of a portion of the bottom plates, partly in section.

A designates the casing of the machine, which is hollow and roughly pyramidal and may be provided on its longer side with outwardly and upwardly curved base-flanges A', which serve as convenient receptacles for crayons, pencils, &c., when not in use. The top of the frame A is open, but is covered by a cap-piece a, secured in place by screws or other suitable fastenings. Said cap has a slot a' in its top, in which the crayons are inserted during the sharpening operation. A slide B is mounted upon and between opposite longitudinally-disposed guides C C, attached to the frame on opposite sides of the

opening in the top thereof, (below the cover a,) and to this slide are attached short upwardly-projecting knives b b, which are divergent and adapted to make a double bevel cut on the crayon, these knives being detachably secured to the slide B by being seated in a slot b' therein and retained by a screw b², as shown.

The slide B is embraced between bifurcations d on the upper end of the short arm D' of a bell-crank lever, which is pivoted at its angle, and its long arm D projects out of the end of the casing through a slot A² therein and is provided with a handle by which the lever can be operated. A coiled spring E is connected to the inner arm D' of the lever and to the frame and is adapted to rock the lever, so as to keep the handle elevated and hold the slide B normally at one end of the frame, so that by depressing the handle the slide will be forced or moved the entire length of the guides and then retracted by the action of the spring E or by raising the handle. The sides of the slide B may be recessed, as at B', to accommodate the bifurcations d of the lever.

Attached to the frame beneath cap a are stops G G, one at each end of the opening in top of frame, against which stops the crayon abuts during the sharpening operation. Projecting beside and beyond each stop are spring-fingers H H, which assist in holding the crayon in position and to clean the edges of the knife blades or cutters b at each reciprocating movement thereof. As shown, the stops G are secured in place between projecting lugs A³ on the main frame by screws G', and springs H are secured in position by having their ends clamped between the sides of stops G and the lugs A³, as shown.

The lever D D' may be provided with trunnions D² at its bend, which engage notches A⁴ in the bases of the opposite side of the frame and are confined therein by a plate I, secured to the base of frame by screws I'. This plate I is also provided with curved ears or lugs i at its four corners, which catch over hinge-pintles j on the corners of bottom plates J J and hinge the latter in place, said plates closing up the opening in the bottom of the casing and preventing the crayon trimmings dropping therefrom. Said plates J J may be

- held closed by buttons L, attached to the base of the casing by screws l and provided with rubber cushions L', which serve as feet to support the frame noiselessly on a table. The plate J beneath handle D may also be provided with an upturned spring-plate L², which is adapted to partially close the lower end of slot A² and prevent the casual escape of crayon trimmings therethrough.
- 10 Operation: The crayon is inserted through the opening in cover a between the stops G G and the ends of springs H H. Then the handle D is operated to move slide B back and forth, during which movement knives b trim or sharpen the lower edge of the crayon, giving a fine double beveled edge thereto. The trimmings drop into the casing and are retained therein, but may be emptied by opening one of the plates J.
- 20 It is doubtless possible that the mechanical structure of the machine may be simplified, while retaining all essential features and parts thereof; and therefore I do not restrict myself to the specific construction shown in the drawings.
- 25 Having thus described my invention, what I therefore claim as new, and desire to secure by Letters Patent thereon, is—
1. In a crayon-sharpener, the combination 30 of the casing, the movable divergent cutter, the horizontal guides therefor, the pivoted lever and connections for reciprocating said cutters, substantially as described.
2. In a crayon-sharpener, the combination 35 of the casing, the reciprocating cutters, the crayon-stops, and the lever and connections for reciprocating the cutters, substantially as described.
3. In a crayon-sharpener, the combination 40 of the casing, the reciprocating slide, the cutters mounted thereon, the lever for operating said slide, and the guide fingers or springs arranged beside the path of the cutters, substantially as described.
- 45 4. In a crayon-sharpener, the combination

of the casing, the reciprocating slide, the cutters thereon, the lever and connections for reciprocating said slide, the crayon-stops and the holding-springs beside and projecting beyond the stops, substantially as described. 50

5. In a crayon-sharpener, the combination of the casing, having an opening or slot in its upper end, a slide adapted to reciprocate in said slot, the cutters attached to said slide and the lever and connections for reciprocating said slide; with the pairs of guide-springs above the slide at each end of the slot, and the cover, substantially as and for the purpose described. 55

6. In a crayon-sharpener, the combination 60 of the casing having an opening or slot in its upper end, guides at the side of the slot, a slide mounted upon and between said guides, the cutters mounted on said slide, the pivoted lever and connections for operating said slide, the stops above and at each end of the slot in the casing, the pairs of springs beside the stops projecting inwardly beyond the same, and the cover having a slot for insertion of the crayon during the sharpening operation, 65 substantially as and for the purpose described. 70

7. The combination of the casing having an opening in its top, hinged bottom plates closing the base of casing, a slide reciprocable 75 in said opening, and cutters on said slide; with a bent lever pivoted at its bend to the base of casing and having one end bifurcated and engaging said slide, and its other end projecting out of the casing, the stops, and guide-springs at each end of the opening in top of casing, and the removable cover, for the purpose and substantially as described. 80

In testimony that I claim the foregoing as my own I affix my signature in presence of 85 two witnesses.

ANDREW PETER PETERSON.

In presence of—

JAMES L. SCHRUBEN,
CHARLES FAIGLE.