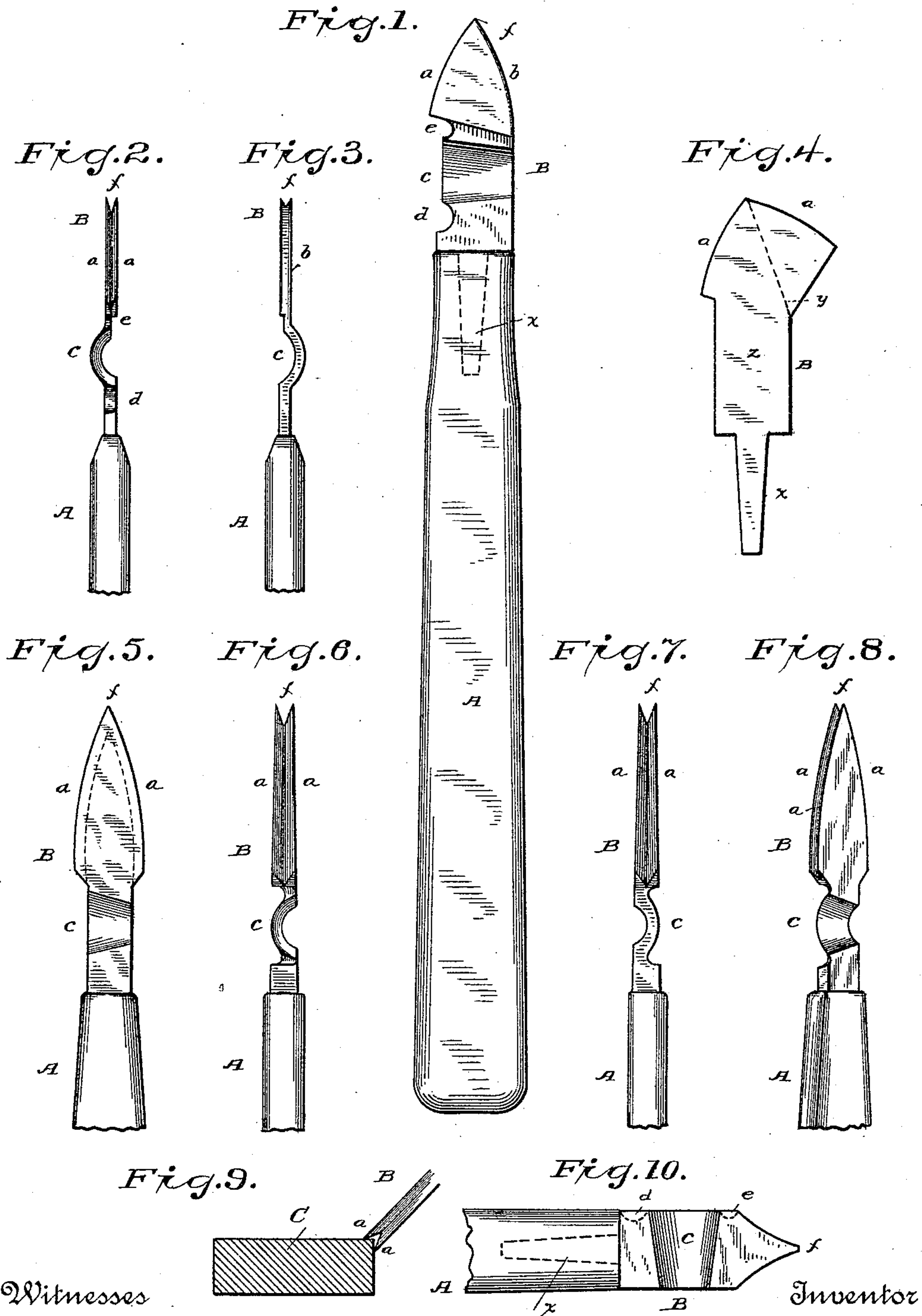


(No Model.)

G. W. WASHBURN.
COMBINED ERASER AND PENCIL SHARPENER.

No. 460,608.

Patented Oct. 6, 1891.



Witnesses

H. A. Lamb
Geo. W. Whitney

Inventor

GEORGE W. WASHBURN

Geo. W. Washburn

Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. WASHBURN, OF WEST NEW BRIGHTON, NEW YORK.

COMBINED ERASER AND PENCIL-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 460,608, dated October 6, 1891.

Application filed May 20, 1891. Serial No. 393,391. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. WASHBURN, a citizen of the United States, and a resident of West New Brighton, in the State of New York, have invented a new and useful Improvement in Erasers and Pencil-Sharpener, of which the following is a specification.

This invention relates, primarily, to combined erasers and pencil-sharpener of that form in which a rigid blade projects endwise from a suitable handle, but may be embodied, in part, in separate erasers and pencil-sharpener of the same general form, and in a preferred style a paper-burnisher is combined with an eraser and pencil-sharpener.

The invention consists in certain novel features of construction or combination of parts hereinafter set forth and claimed, whereby a burnisher is readily combined with a double-edge eraser, provision is made for rapidly cutting away the wood of ordinary lead-pencils, supplemental lead-sharpener are conveniently added, and the whole is embodied in a simple and neat article of manufacture.

A sheet of drawings accompanies this specification as part thereof.

Figure 1 of the drawings is a side view of a combined eraser and pencil-sharpener embodying all the several features of this invention. Figs. 2 and 3 are front and back views of its upper end. Fig. 4 is an elevation of the blank from which the metallic portion of the article is preferably formed. Fig. 5 is a side view of the blade end of a combined eraser and pencil-sharpener of a somewhat different pattern, illustrating modifications. Figs. 6 and 7 represent front and back edge views of said combined eraser and pencil-sharpener, Fig. 8, a perspective view of the same. Fig. 9 is a sectional view illustrating the proposed manner of sharpening the improved erasers, and Fig. 10 is a side view of the blade end of an improved pencil-sharpener embodying the same invention in part.

Like letters of reference indicate corresponding parts in the several figures.

The improved articles of manufacture illustrated by the several figures have in common a suitable handle A and a rigid blade B, the handle of any suitable material and any approved shape and the blade of steel, and the

parts may in all the several forms be connected endwise by a tang *x* on the blade part, as represented in Figs. 1, 4, and 10.

In the preferred species represented by Figs. 1 to 4, inclusive, the blade B has a pair of erasing-edges *a a* at one edge of its lancet-shaped main portion, the same being formed at the margins of parallel flat sides by a V-shaped-edge groove. A burnishing-surface *b* is formed by the smoothly-rounded back of said lancet-shaped portion of the blade. An arc-shaped cutter *c* is formed transversely in an otherwise flat shank connecting said lancet-shaped portion with the tang *x*, and a pair of cutting-notches *d e*, respectively large and small, are formed in the cutting-edge of said shank portion above and below said cutter *c*. The extremity of said lancet-shaped portion forms a sharp holding-point *f*.

This combined eraser and pencil-sharpener is readily formed from a single metallic blank of the shape represented by Fig. 4, the same being folded on the dotted line *y* before or after it is beveled at *a a* to form the erasing-edges and before or after its shank portion *z* is fashioned into the pencil-sharpener. The burnishing-surface *b* is subsequently formed by grinding the fold edge.

In the combined eraser and pencil-sharpener represented by Figs. 5 to 8, inclusive, the blade B is constructed in any approved manner with pairs of erasing-edges *a* at both sides of its lancet-shaped main portion, the several edges being formed or separated by V-shaped-edge grooves, as above, and an arc-shaped cutter *c*, to constitute the pencil-sharpener, is so shaped as to be adapted to be formed within the original thickness of the metal by cutting or grinding. A sharp holding-point *f* is formed by the extremity of the lancet-shaped portion, as before.

In the separate pencil-sharpener represented by Fig. 10 the blade portion B is provided with an arc-shaped cutter *c*, as above described, with or without the said cutting-notches *d e*, as represented in dotted lines, and terminates in a sharp holding-point *f*, corresponding in function with those at the extremities of said lancet-shaped main portions of the combined erasers and pencil-sharpener, as above described.

The erasing-edges are used in the same

manner as those of ordinary erasers of the same general form, but with double speed if two are used simultaneously, and they are readily sharpened in pairs by any person in the manner illustrated by Fig. 9, where C represents a whetstone having angular edges, to which the erasing-edges are applied as indicated in the figure, so as to sharpen them within the groove which separates them. Two edges are thus simultaneously sharpened with great facility.

To use the pencil-sharpening cutters, the sharp point *f* is pressed into a fixed object, as the edge of a desk or table, and the pencil is drawn at the desired angle across the edge of the cutter *c*, within its concavity, until the wood is tapered to the required extent, after which the lead may be reduced to a point by means of the cutting-notches *d e*, used successively. It will be seen that the separate pencil-sharpener (represented by Fig. 10) is adapted to be used in this manner, notwithstanding the omission of the erasing and burnishing portions of the other forms.

The proportions of the respective portions of the blade may vary, as illustrated by the drawings, and other like modifications will suggest themselves to those skilled in the art.

Having thus described the said erasers and pencil-sharpener, I claim as my invention and desire to patent under this specification—

1. The combination, with a suitable handle A, of a rigid blade B, projecting endwise from such handle and constructed with a pair of erasing-edges *a*, separated by a V-shaped groove and formed at one edge of a lancet-shaped main portion by the respective edges of a folded blank, and with a burnishing-surface *b* at the back edge of such main portion formed by the fold of said blank, substantially as shown and described.

2. The combination, with a suitable handle A, of a rigid blade B, projecting endwise from such handle and constructed with a main portion having erasing-edges *a* and with an arc-shaped pencil-sharpening cutter *c*, having its cutting-edge at one edge of the blade, substantially as shown and described.

3. The combination, with a suitable handle A, of a rigid blade B, projecting endwise from such handle and constructed with an arc-shaped pencil-sharpening cutter *c*, having its cutting-edge at one edge of the blade, and with a sharp holding-point *f* at the extremity of the blade, substantially as shown and described.

4. The combination, with a suitable handle A, of a rigid blade B, projecting endwise from such handle and constructed with an arc-shaped cutter *c* for tapering the wood of a lead-pencil, one or more cutting-notches *d e* for sharpening the lead, and a sharp holding-point *f* at the extremity of the blade, substantially as shown and described.

5. A combined eraser and pencil-sharpener composed of a suitable handle A and a rigid blade B, projecting endwise from such handle, said blade being constructed with a pair of erasing-edges separated by a V-shaped groove at one edge of a lancet-shaped main portion, a burnishing-surface at the back edge of said main portion, an arc-shaped cutter and a pair of cutting-notches for successive use in the shank of the blade, and a sharp holding-point at the extremity of said main portion, substantially as shown and described.

GEO. W. WASHBURN.

Witnesses:

C. H. ZELLERS,
JAS. L. EWIN.