

(No Model.)

J. B. WOOD.

KNIFE FOR WOOD WORKING MACHINERY.

No. 350,520.

Patented Oct. 12, 1886.

Fig. 1.

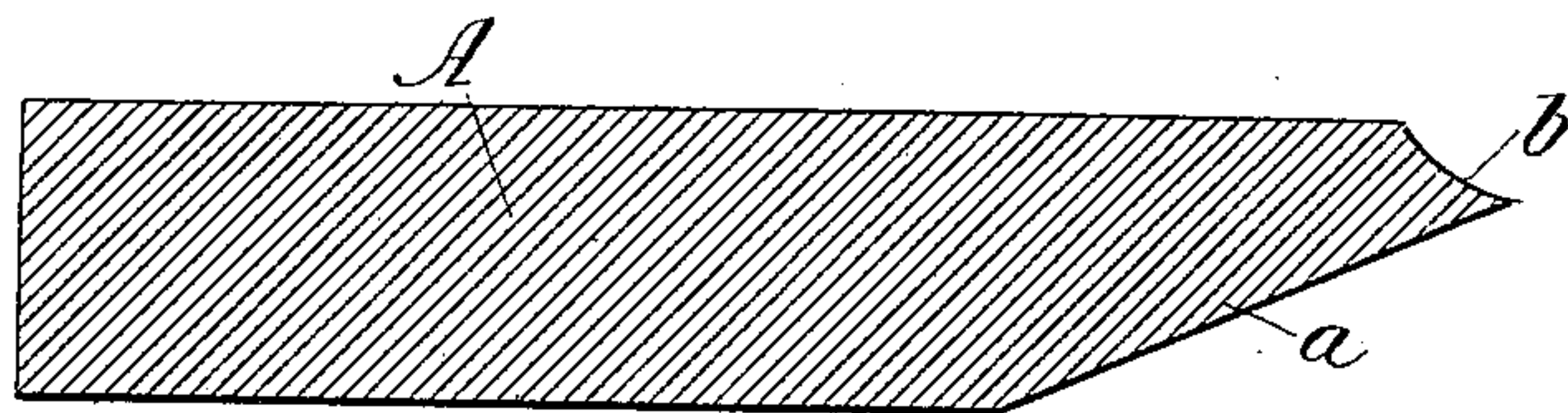


Fig. 2.

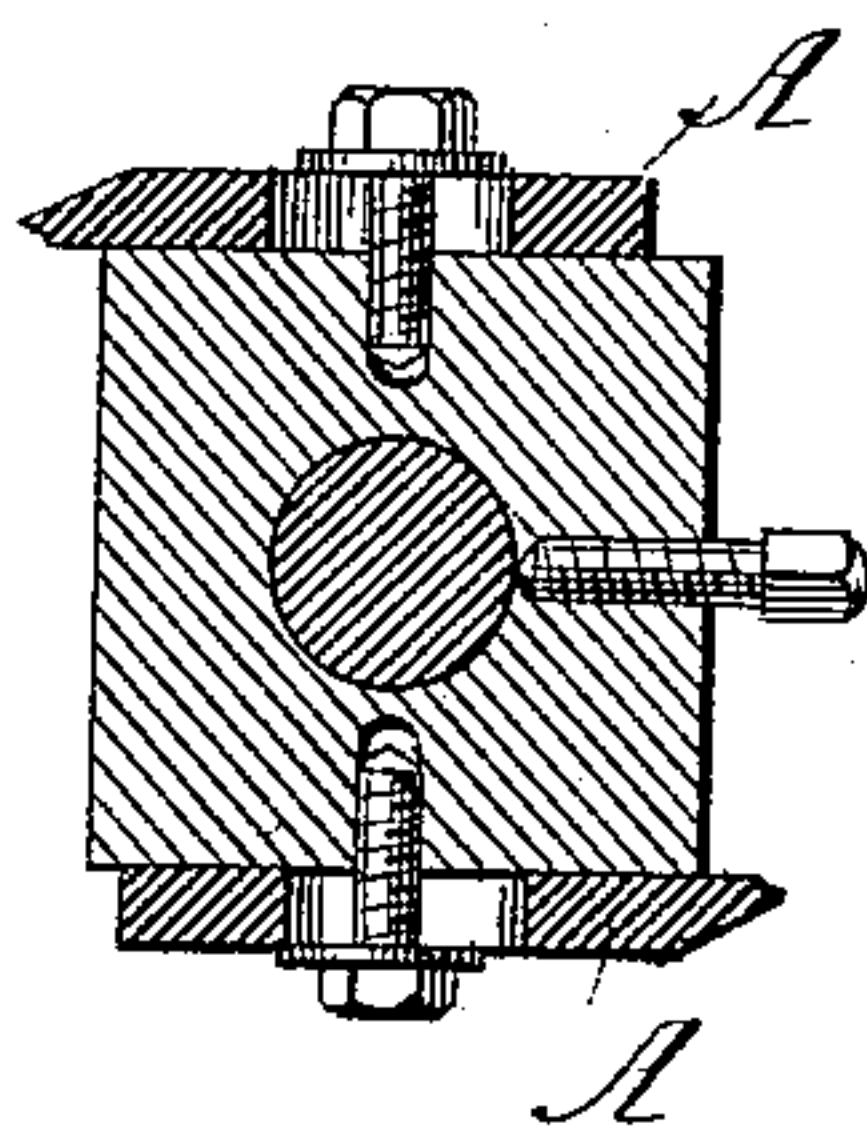
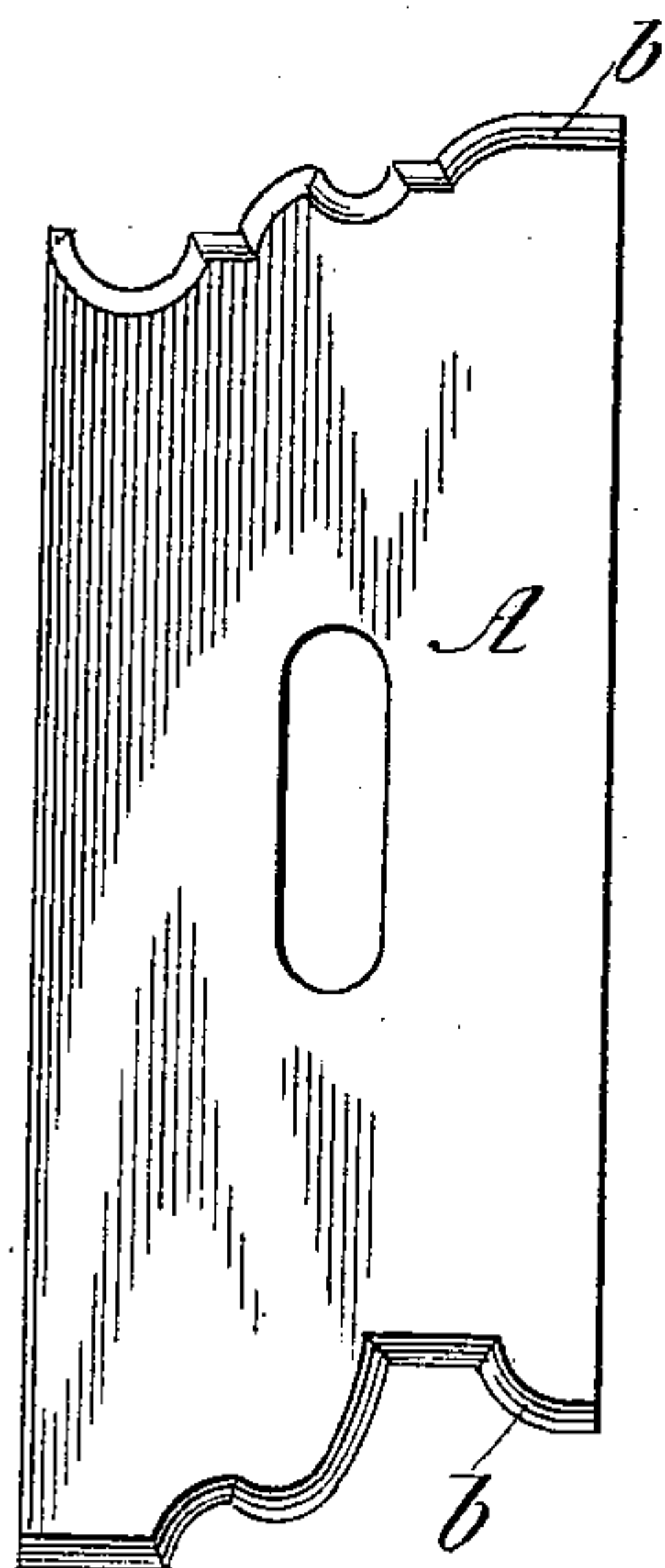


Fig. 3.



Witnesses:
Frank J. Blanchard
Anton Schoeninger.

Inventor:
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UNITED STATES PATENT OFFICE.

JOSEPH B. WOOD, OF CHICAGO, ILLINOIS, ASSIGNOR OF TWO-THIRDS TO CHARLES W. TREMAIN AND WILLIAM B. ROUSE, BOTH OF SAME PLACE.

KNIFE FOR WOOD-WORKING MACHINERY.

SPECIFICATION forming part of Letters Patent No. 350,520, dated October 12, 1886.

Application filed March 16, 1886. Serial No. 195,425. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH B. WOOD, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Knives for Wood-Working Machinery, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This my invention has for its object to provide a knife or cutter for planing and shaping machines, and for other wood-working machinery with cutting-edges, that by the peculiar shape will break the chips or shavings as they are cut from the wood to become short, thereby relieving the knife more readily, and that at the same time has increased strength and durability in its cutting-edges.

For that purpose my invention consists in 20 filing or grinding with a small emery-wheel or otherwise forming along the edge of the knife that is opposite to the basil a rounded groove or concave chamfer that will transfer the cutting-edge from the straight or permanent face about one-third of the thickness of the knife-plate toward the opposite or basiled side of the knife, all as will be hereinafter more fully described and specifically claimed.

In the accompanying drawings, Figure 1 30 represents a section of the knife on an enlarged scale; Fig. 2, a cross-section of a cutter-head having my knives attached; and Fig. 3, an elevation of a knife for a shaper or planer for cutting moldings, also having my improvement.

35 Corresponding letters in the several figures of the drawings designate like parts.

A denotes the knife-plate, of flat steel, and *a* the basil, which, as usual, forms an obtuse angle with the back of the knife, and which is ground down for sharpening the cutting-edge; 40 and *b* is a rounded groove or concave chamfer filed or ground or otherwise cut in the edge of the straight face of the knife, which groove, as will be noticed, changes the position of the working or cutting edge of such knife, and 45 moves it somewhat toward the back of the same. By this groove *b* the cutting-edge is braced and re-enforced against breaking out, by being much stronger and more durable, without thereby reducing the cutting qualities of the same, and a chip or shaving being cut away must follow the curve of groove *b*, and thereby will break into short fragments that will readily clear the knives, and are therefore less liable to interfere with the operation. 55

I am aware that knives of the character described have been provided with an auxiliary strip grooved substantially as on mine, and therefore I disclaim such a construction; but 60

What I claim is—

As a new article of manufacture, a wood-working knife having formed in its blade a rounded groove or concaved chamfer, the same being situated on the side opposite the basil, 65 as set forth.

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

JOSEPH B. WOOD.

Witnesses:

ANTON SCHOENINGER,
HARRIS W. HUEHL.