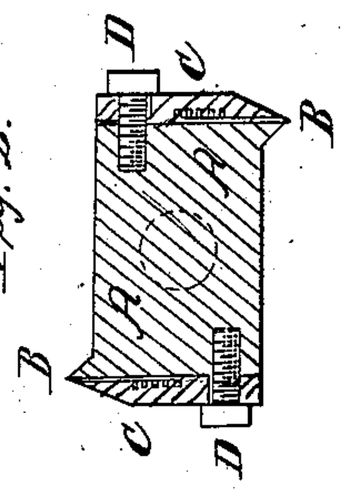
T. Tosterin,

Cutter Head.

No. 76,556. Patented Apr. 7, 1868.

Fig. 2.



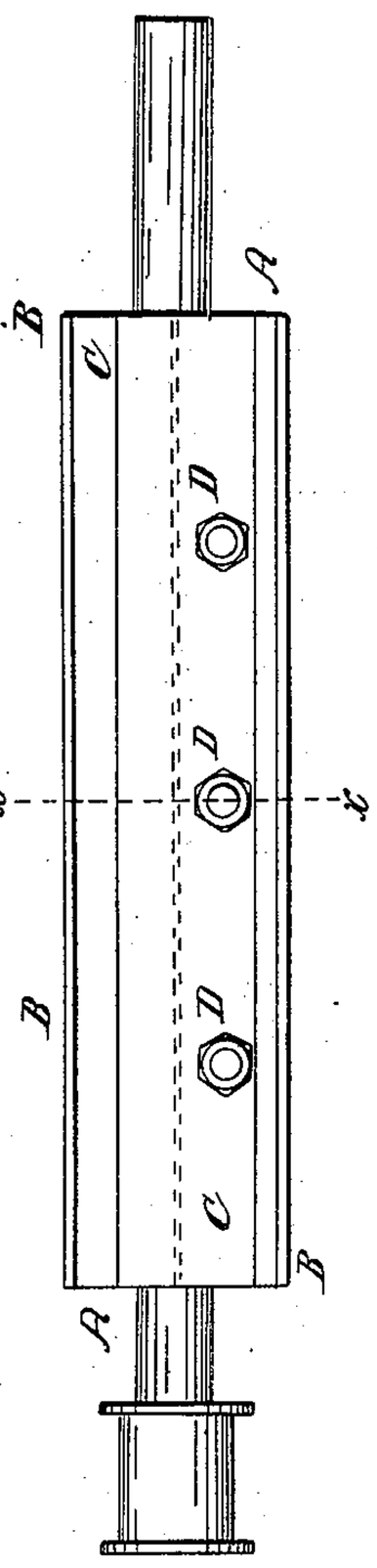


Fig. 1.

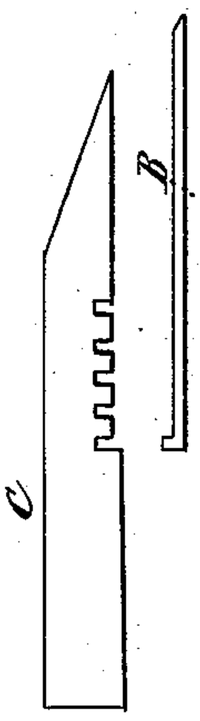


Fig. 3.

Fig. 4.

Witnesses.
W. C. Aslikello.
J. Fraser.

Inventor.
Thos Tosterin.
per Munn & Co
Attorneys.

United States Patent Office.

THOMAS TOSTEVIN, OF COUNCIL BLUFFS, IOWA.

Letters Patent No. 76,556, *dated April* 7, 1868.

IMPROVEMENT IN CUTTER-HEADS FOR WOOD-PLANING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS TOSTEVIN, of Council Bluffs, in the county of Pottawatomie, and State of Iowa, have invented a new and useful Improvement in Planers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a side view of my improved planer-head and knives.

Figure 2 is a cross-section of the same.

Figure 3 is an enlarged detail cross-section of the cap.

Figure 4 is an enlarged detail cross-section of the knife or cutter.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improvement in the construction of the cutters and caps of planer-heads, whereby the first cost will be diminished, less grinding will be necessary to keep the cutters in order, and the efficiency of the planers will be increased; and it consists in the construction of the knives and caps as hereinafter more fully described.

A is the cutter-head, which I prefer to make of wrought iron, and which is constructed, attached to the machine, and driven in the ordinary manner. B are the knives, which are made of sheet steel, and much thinner than the ordinary planer-knives. The knives B are made with an outwardly-projecting flange upon their rear edges, as shown in figs. 2 and 4. C are the caps, which are made in substantially the form shown in figs. 1, 2, and 3. The caps C are made with a series of longitudinal grooves in their under sides, into which the flange of the cutters B fits. This enables the knives or cutters to be moved forward, as they are worn or ground away, until they are used up. The under side of the caps C, in the rear of the longitudinal grooves, should project about the thickness of the knives or cutters B, so that it may rest against the cutter-head A, in the rear of the said knives or cutters.

The projecting part of the caps C should be slightly bevelled off, or inclined towards the forward edge of said cutters, as shown in figs. 2 and 3. The forward part of the caps should be made in about the form shown in fig. 3, and its forward edge should project a little beyond the plane of its inner side, so that it may press more firmly against the forward part of the said cutters B. The knives B and caps C are adjustably secured to the cutter-head A by set-screws D, which pass in through slots or notches in the rear parts of the caps C, and screw into the cutter-head A. This enables the caps C to be moved forward and back, or adjusted as may be desired. By this construction the cutters are held firmly in place, and in such a manner as to guard against their liability to be broken, the caps pressing against them throughout their entire length, and should a notch be formed in the cutters, by their striking against a nail in the board being planed, they may still be made to plane the board smoothly without being ground, by moving one of the cutters longitudinally the width of the said notch.

I claim as new, and desire to secure by Letters Patent—

The cutters B, having an outwardly-projecting flange upon their rear edges, and the caps C, provided with a series of parallel longitudinal grooves in their under sides, constructed to operate substantially as described.

THOMAS TOSTEVIN.

Witnesses:

GEO. SCHINDEL,

H. S. GRAY.