

Patents of Invention.

SPECIFICATIONS.

(To be in duplicate.)

FORM 13.

FOR A MACHINE.

To all whom it may concern :

Be it known that I, William Woodworth, of the town of Poughkeepsie, in the County of Dutchess, in the State of New York, gentleman, having invented certain new and useful improvements in planing machines, and I do hereby declare that the following is a full, clear, and exact description of the same.

Reference being made to the accompanying drawing in which :

Figure 1 is a side elevation of a machine embodying my invention.

Figure 2 is a plan of the same.

Fig. 3 is an elevation showing the end of the machine which is at the right hand in figure 1

Figure 4 is a vertical traverse section, showing those parts of the machine which are at the right hand of the line *x x* drawn across figures 1 and 2.

The first part of my invention relates to the combination of rotary cutters and feeding-rollers in such a manner that the said feeding-rollers shall be capable of feeding the lumber to the cutters, and also of effectually resisting the tendency of the cutters to draw the lumber upwards towards them ; the object of this part of my invention being to reduce the lumber operated upon to a uniformity of thickness, and give it a planed and even surface upon one side thereof.

The second part of my invention relates to the combination, with feeding-rollers and rotary cutters, for planing one of the principal surfaces of the lumber, of rotary machine cutters so as to form a tongue or groove, or both, upon the edge or edges of the lumber, at the same time that one of its principal surfaces is planed.

In the drawing, A is the frame of the machine, which frame should be substantially constructed to resist the vibrations of the operating parts. B. is the driving pulley which is hung on the main shaft C of the machine, from which latter, motion is communicated to the operating parts. D is the shaft of the rotary cutters by which the lumber is planed. This shaft is made flat upon two of its sides, between its bearings, for the reception of the cutters E, E., which are firmly secured to it by bolts *a a*, the holes