

M. WRIGHT.

Improvement in Planing-Machines.

No. 128,995.

Patented July 16, 1872.

Fig. 1.

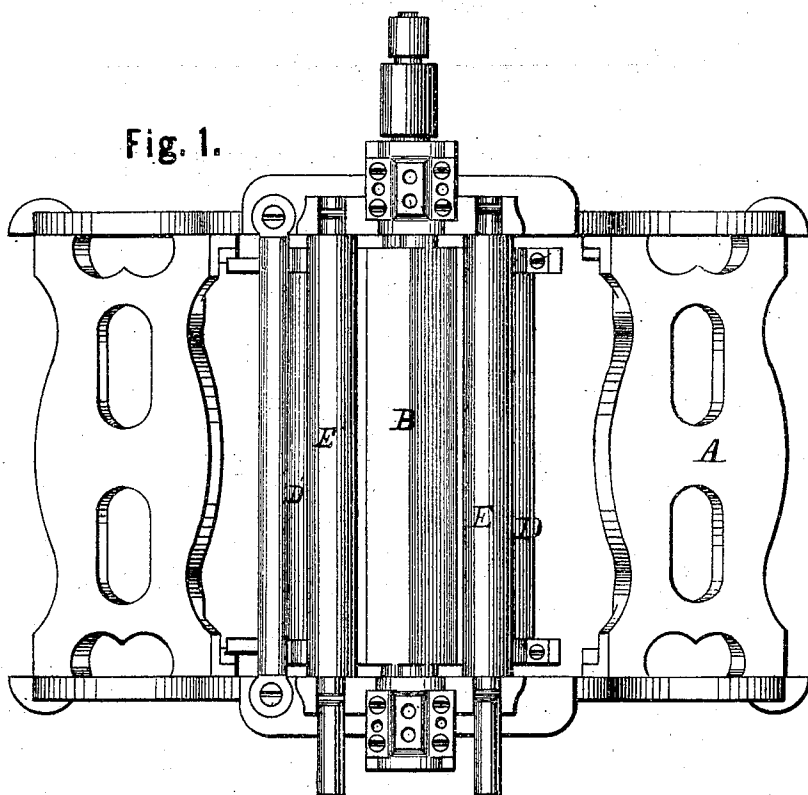
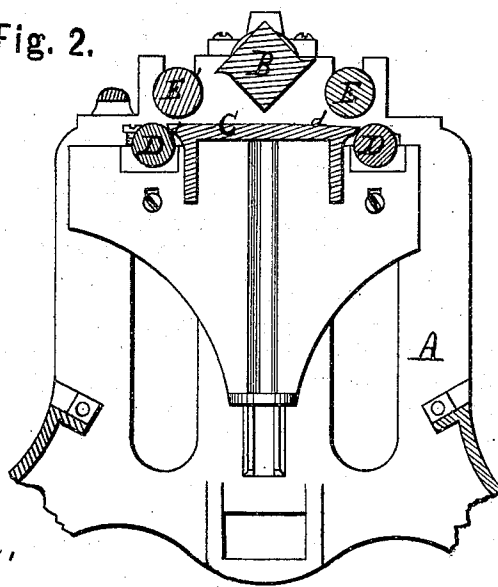


Fig. 2.



WITNESSES.

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MEDAD WRIGHT, OF MONTPELIER, VERMONT, ASSIGNOR TO MEDAD WRIGHT & SONS, OF SAME PLACE.

IMPROVEMENT IN PLANING-MACHINES.

Specification forming part of Letters Patent No. 128,995, dated July 16, 1872.

To all whom it may concern:

Be it known that I, MEDAD WRIGHT, of Montpelier, in the county of Washington and State of Vermont, have invented a new and valuable Improvement in Planing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my invention. Fig. 2 is a sectional view of the same.

This invention has relation to an improvement in planing-machines, which consists in beveling one side of the bed-plate, and in arranging the upper feed-rollers somewhat closer together than the lower rollers, whereby it is designed, in the first place, to obviate very much of the friction, and, in the second place, in obviating this friction to secure a steady and even bearing.

In the accompanying drawing, the letter A designates the frame-work, or a portion thereof. B represents the plane-bit; C the bed-plate, beveled from about where the action of the bit on the work commences to the edge adjacent to the first pair of rollers. This bevel or inclination is indicated in the drawing by the letter *d*. D D' represent the lower rollers, which are situated, as usual, just outside the edges of the bed-plate and connected with it. E E' represent the upper feeding-rollers attached to the frame-work. These rollers are placed closer together than the lower rollers, so that the axes of each pair are not in the same vertical plane. The position of the upper rollers with reference to the lower ones may be

varied somewhat, but the rule generally adopted by me is to place the axis of each upper roll in or near the vertical plane tangent to the inner edge of the lower roll of the same side. A great amount of friction is prevented by beveling the entering side of the bed-plate, and its office as a guide is not affected thereby; and as the action of the bit commences on the horizontal plane of the bed, this foundation against which the bit operates will be secure and steady. In order to secure a steady movement of the work, the elasticity of which will have a tendency to produce vibration, especially in the portion which is passing over the bevel of the bed-plate, the upper rollers are placed closer together, as described. Sometimes, when the bed-plate is narrow, it may only be necessary to place the upper roller of the entering pair inside the vertical plane of its fellow, the other two rollers at the edge of the horizontal portion of the bed-plate being in the same vertical plane; but in general I prefer to place both rollers of the upper pair within their fellows below.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a planing-machine, the combination, with a beveled bed-plate having rollers at its edges, of the upper feed-rollers, placed nearer together than the lower rollers of the bed-plate, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

MEDAD WRIGHT.

Witnesses:

J. O. LIVINGSTONE,
ORAMEL H. SMITH.