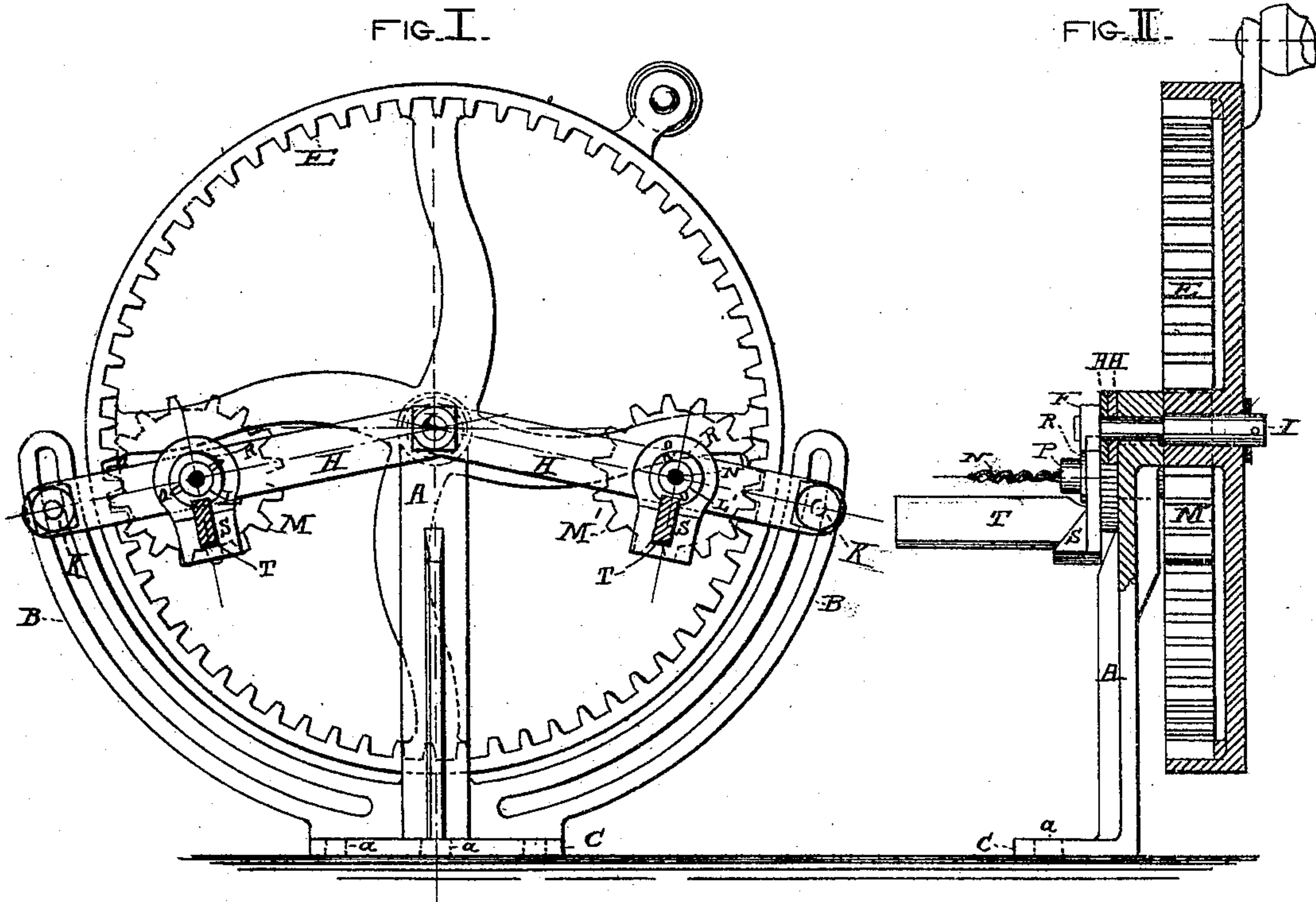


O. F. TEED.

Improvement in Boring-Machines.

No. 132,187.

Patented Oct. 15, 1872.



WITNESSES:

Geo. H. Howard.

H. A. Daniels.

INVENTOR:

Oliver F. Teed -

Chas. S. Whitman Attorney

UNITED STATES PATENT OFFICE.

OLIVER F. TEED, OF GUILFORD, NEW YORK, ASSIGNOR OF ONE-HALF HIS
RIGHT TO JESSE S. TEED AND CHARLES J. TEED, OF SAME PLACE.

IMPROVEMENT IN BORING-MACHINES.

Specification forming part of Letters Patent No. **132,187**, dated October 15, 1872.

To all whom it may concern:

Be it known that I, OLIVER F. TEED, of Guilford, in the county of Chenango and State of New York, have invented an Improved Machine for Doweling; and do hereby declare that the following description, taken in connection with the accompanying plate of drawing, hereinafter referred to, forms a full specification of the same, wherein I have set forth the nature of my said invention, by which the same may be distinguished from others of a similar class, together with such parts as I claim and desire to secure by letters patent.

My invention relates to that class of wood-working machines which are made use of for boring holes for dowels; and the nature thereof consists in certain modifications and improvements in the construction of the same, hereinafter described and shown.

In the accompanying drawing, which illustrates my invention and forms a part of the specification thereof, in which corresponding parts are illustrated by similar letters, Figure 1 is a front elevation, and Fig. 2 is a vertical section.

The construction, operation, and arrangement of the various parts of my invention are described as follows: The frame of the machine, consisting of the upright post designated by letter A and slotted curvilinear bars B, is cast solid with and rests upon the bed-plate C, which is provided with circular apertures *a*, by means of which it may be securely bolted or secured to any desired surface. The internally-toothed spur-gear E revolves upon a bolt, I, which passes through a cylindrical aperture cut in the top of the post A, and is secured thereto by means of the nut F. The said nut F also secures to the said upright post the radial bars H, which are so arranged upon the said bolt as to be capable of rotation about the same. The outer ends of the said radial bars are provided with circular apertures, by means of which, and the screws and nuts K, they may be secured at any desired position between the bottom and top of the curvilinear

bars B. The axles L L' of the pinions M M' have their bearings in journal-boxes or hubs cast upon the inner side of the said radial bars and are secured thereto. The said axles have slotted tubular projections P, in which the bits N are secured by means of the pin O. The said pin also serves to hold in position the washer R, which is placed between the same and the annular shoulders at the connecting point between the tubular projections P and axles L. The pendent brackets S, for supporting the rests T, are provided with circular apertures, which fit over and are supported by the axles L.

It is obvious, from the foregoing description, that holes may be bored at a greater or less distance apart with this machine by properly adjusting the bits; or, in other words, the said bits may be made to approach or recede from each other, or to occupy any desired position, by causing the radial bars to describe arcs of circles, and securing the same to the curvilinear bars by means of the screws and nuts K. It is also obvious that by turning the internally-toothed spur-gear from left to right the bits will be made to revolve in a similar direction, and two holes will be bored simultaneously in the work or stuff while being shoved toward the auger.

I am aware of the patent to N. R. Merchant, dated May 28, 1861, and claim none of the devices therein shown; but

I claim and desire to secure by Letters Patent—

The post A, radial bars H, pinions M M', tubular projections P, pendent brackets S supporting the rests T, and curvilinear bars B, all combined and operating together as and for the purposes described.

In witness whereof I have hereunto subscribed my name this 26th day of April, 1872.

OLIVER F. TEED.

Witnesses:

O. H. CURTIS,
WILLIAM H. HYDE.