

No. 896,579.

PATENTED AUG. 18, 1908.

J. R. RICHMOND.
WHEELWRIGHT'S MACHINE.
APPLICATION FILED DEC. 4, 1907.

Fig. 1.

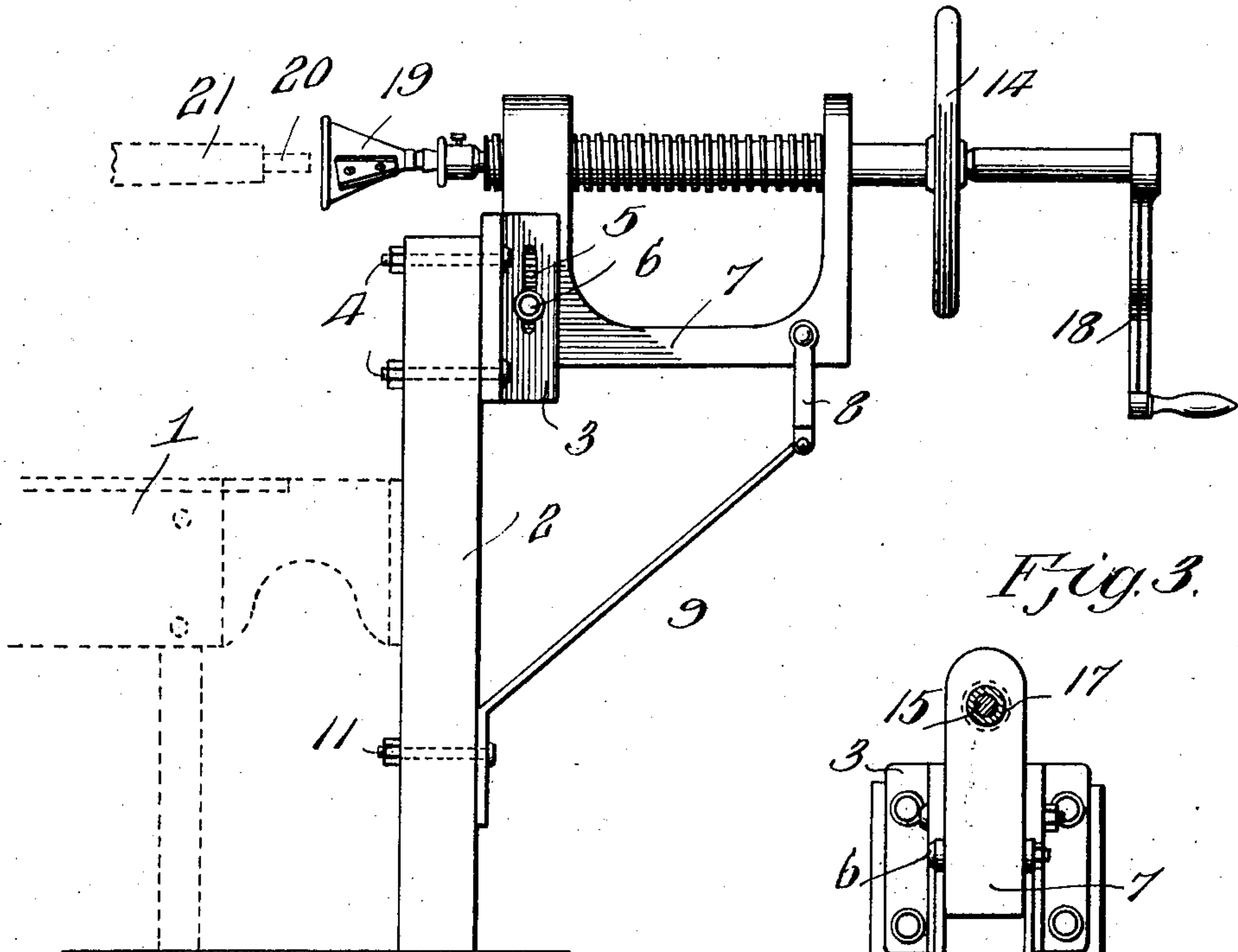


Fig. 3.

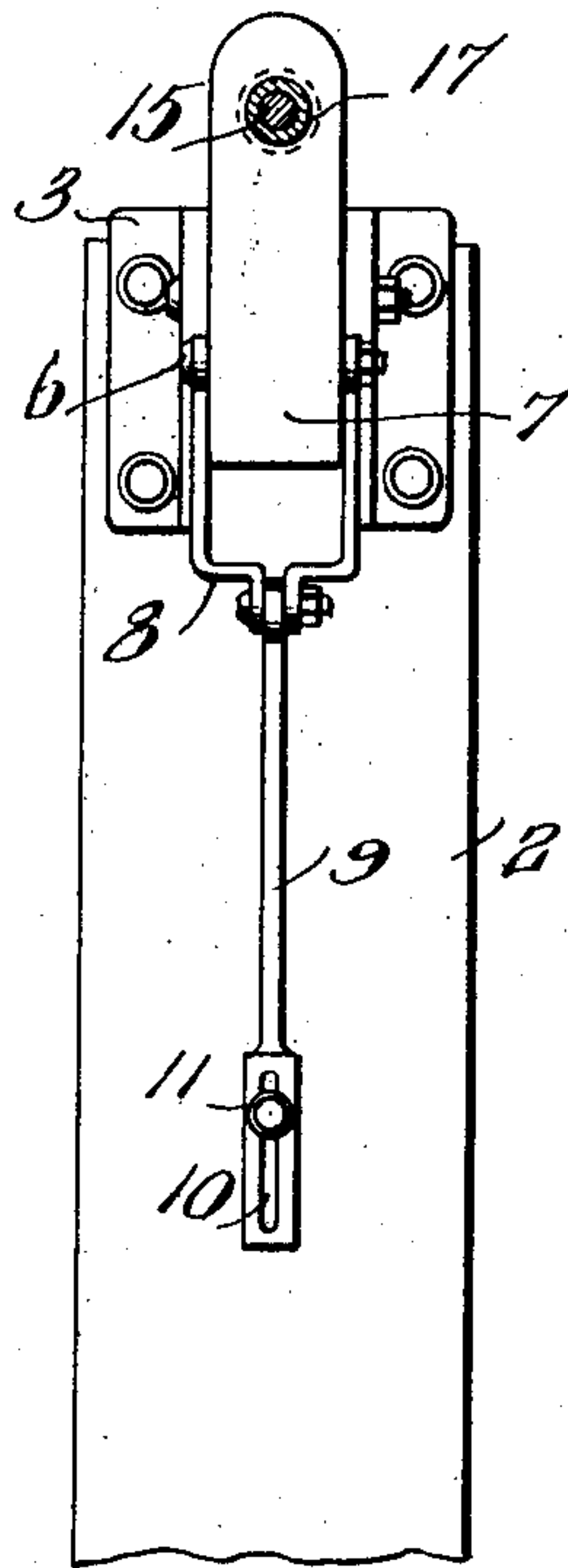
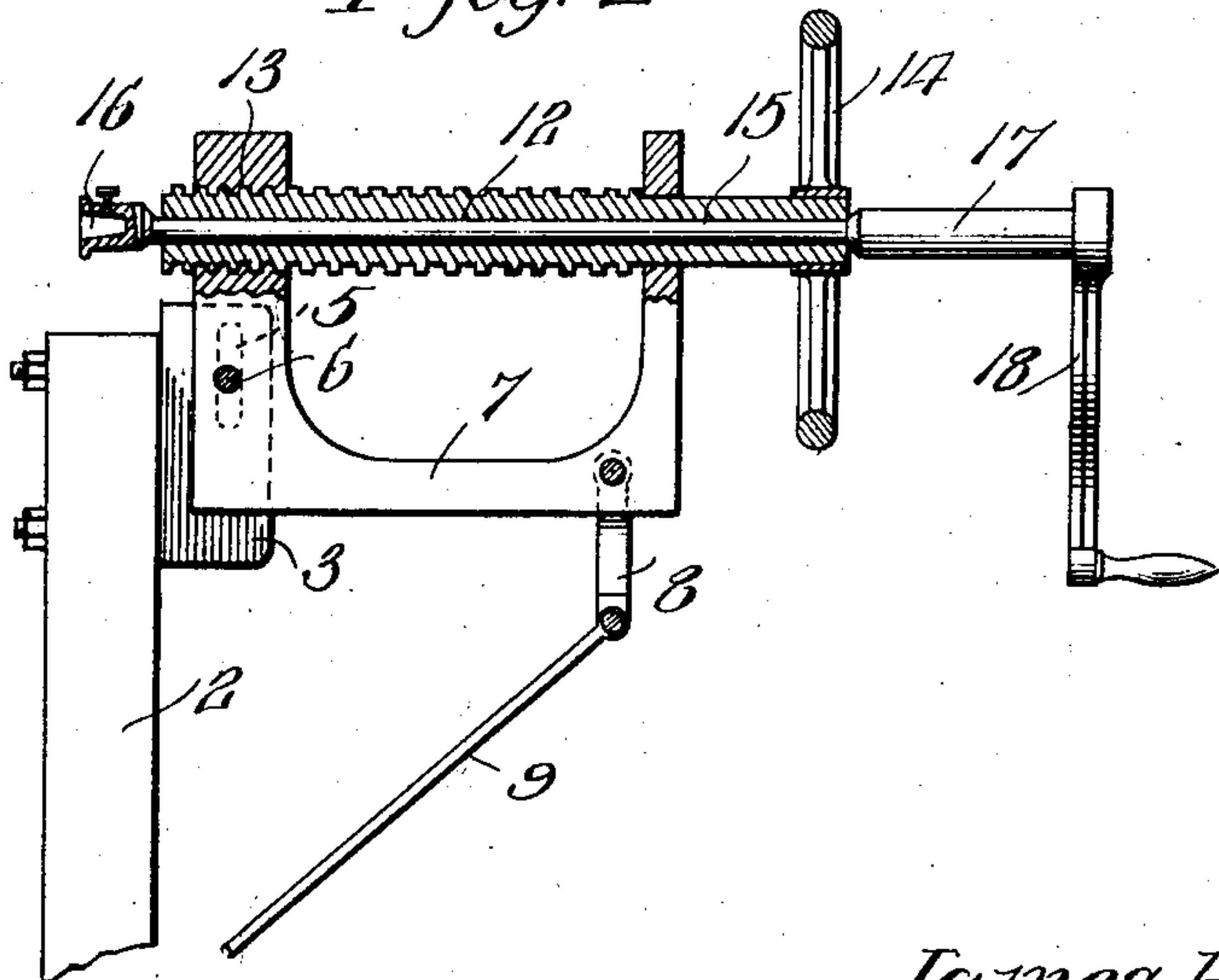


Fig. 2.



Witnesses
Frank Hough

[Signature]

Inventor
James R. Richmond,

By *Victor J. Evans*

Attorney

UNITED STATES PATENT OFFICE.

JAMES R. RICHMOND, OF LEWISBURG, KENTUCKY.

WHEELWRIGHT'S MACHINE.

No. 896,579.

Specification of Letters Patent.

Patented Aug. 18, 1908.

Application filed December 4, 1907. Serial No. 405,060.

To all whom it may concern:

Be it known that I, JAMES R. RICHMOND, a citizen of the United States of America, residing at Lewisburg, in the county of Logan and State of Kentucky, have invented new and useful Improvements in Wheelwrights' Machines, of which the following is a specification.

This invention relates to wheelwrights' machines, and one of the principal objects of the same is to provide a simple and convenient machine for forming tenons on the ends of spokes and for various operations connected with wheels.

Another object of the invention is to provide means whereby the machine may be readily adjusted vertically to operate upon the ends of spokes and on wheels of various sizes.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which:—

Figure 1 is a side elevation of a machine made in accordance with my invention. Fig. 2 is a side elevation and partial section of the same. Fig. 3 is a partial section and end view of the same.

Referring to the drawing for a more specific description of my invention, the numeral 1 designates the workman's bench, and 2 is an upright secured to the bench at one end thereof. Connected to the upper end of the upright 2 is a bracket 3, said bracket being firmly secured to the upright 2 by means of bolts 4. There are two of the brackets 3, one upon each side of the frame of the machine, and these brackets are each provided with a slot 5 through which a bolt 6 passes, said bolt also passing through the frame of the machine to thus permit said machine to be adjusted vertically so as to aline the chuck with the spokes of wheels of different sizes.

The frame 7 of the machine is connected to the upright 2 by means of a pivoted link 8 and a brace 9, said brace 9 being slotted, as at 10, and connected to the upright by means of a bolt 11. Mounted in the machine frame 7 is a threaded shaft 12, said shaft being movable lengthwise of the frame by means of the threaded portion 13 of the frame. Fitted to one end of the threaded shaft 12 is a hand wheel 14. Passing

through the shaft 12 is a rod 15 provided upon one end with a chuck 16, and the opposite end being enlarged, as at 17, and provided with a crank handle 18. A tenon cutter 19 may be secured to the chuck 16 for forming tenons 20 upon the ends of the spokes 21, or tools of various kinds may be secured in the chuck 16 for operation on wheels.

The operation of my machine may be briefly described as follows: In forming a tenon on the end of the spoke the shaft 12 is moved forwardly until it engages the spoke, and then the crank handle 18 is operated, while the hand wheel 14 is actuated to feed the cutter forward.

My invention is of simple construction and can be operated quickly to form tenons or perform other operations upon wheels. The adjustments can be quickly made, and the machine has been found very convenient and efficient in use.

It is obvious from the construction of the device as herein set forth, that the machine may be adjusted angularly whereby it may be used in connection with a bit of suitable form for drilling a wheel rim and hub. When the machine is in use for drilling purposes and it is desired to adjust it at an angle, the bolt 6 is loosened, likewise the bolt 11, whereupon the brace 9 may be raised or lowered to properly position the frame 7, it being understood that the bolt 6 is held by the hand of the operator during the operation of adjusting the brace 9.

Having thus described the invention, what is claimed as new, is:—

The combination with a bench an upright carried by the bench, a bracket carried by the upright, of a frame adjustably connected with the bracket, a brace loosely connected at one end with the frame and adjustably connected at its other end to the upright, and a revoluble chuck carrying rod carried by the frame.

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

JAMES R. RICHMOND.

Witnesses:

D. P. BROWNING,
W. A. MULLEN.