

N. NICKENS.
CIRCULAR HANDSAW.
APPLICATION FILED SEPT. 24, 1909.

966,045.

Patented Aug. 2, 1910.

Fig. 1.

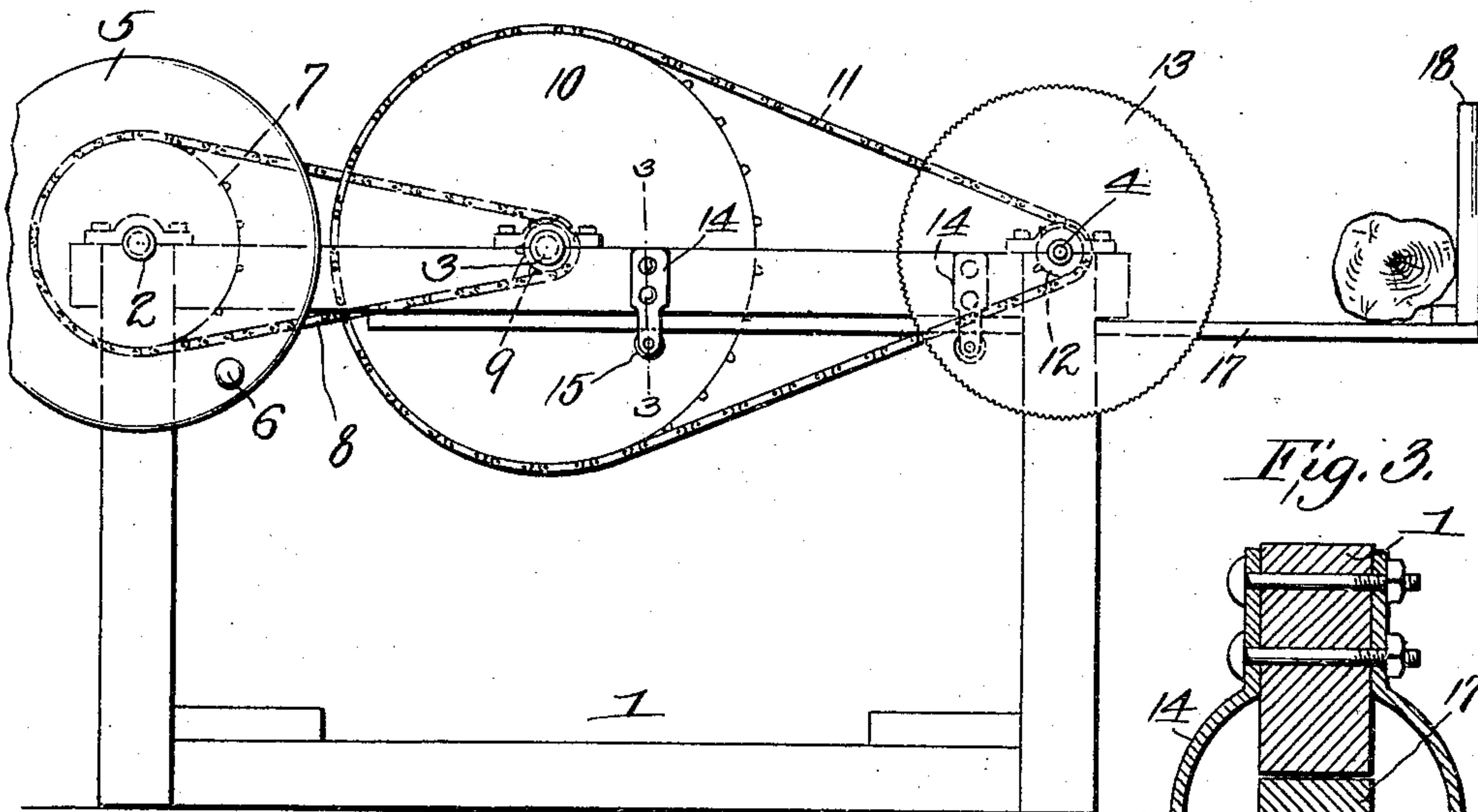


Fig. 3.

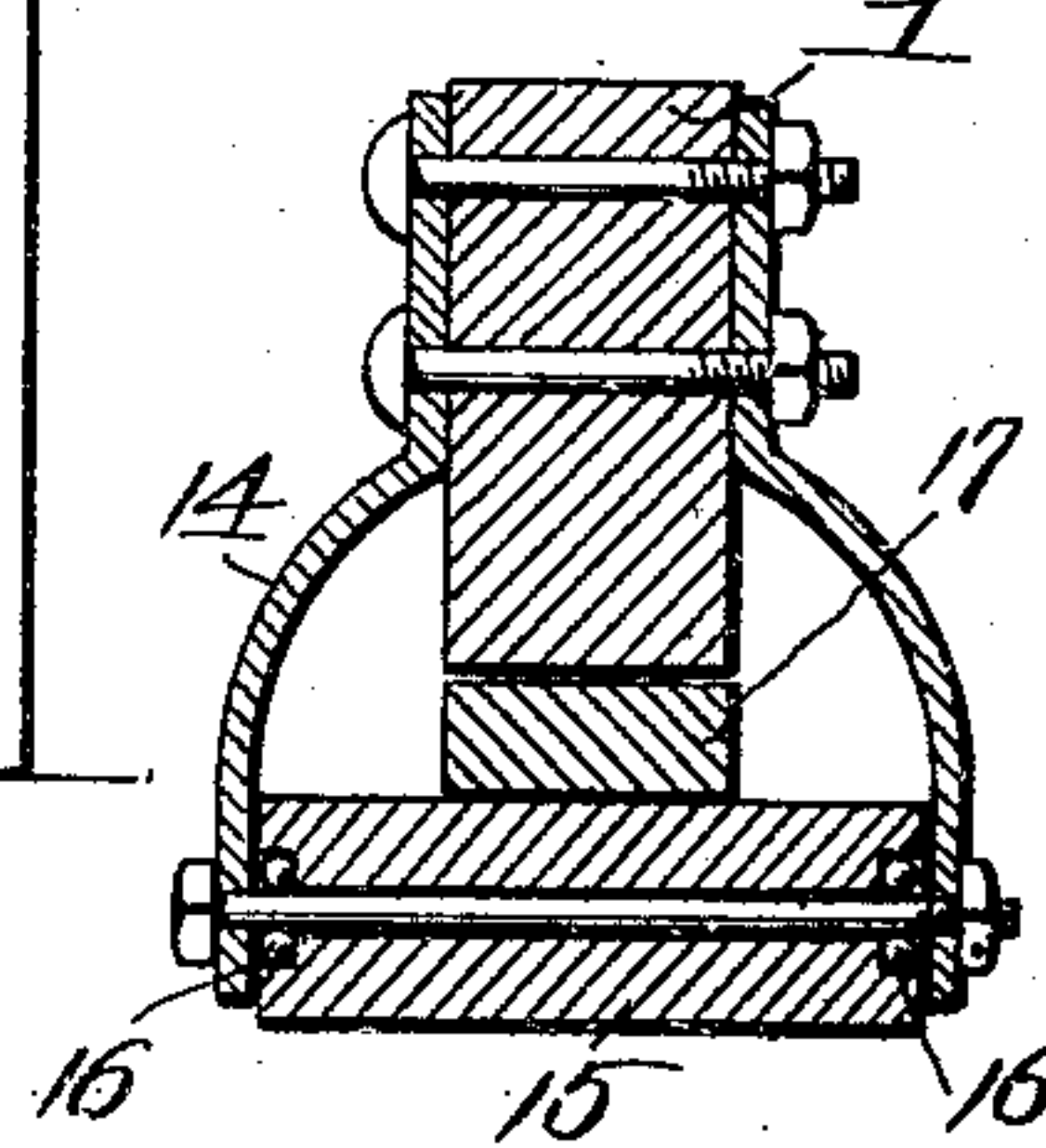
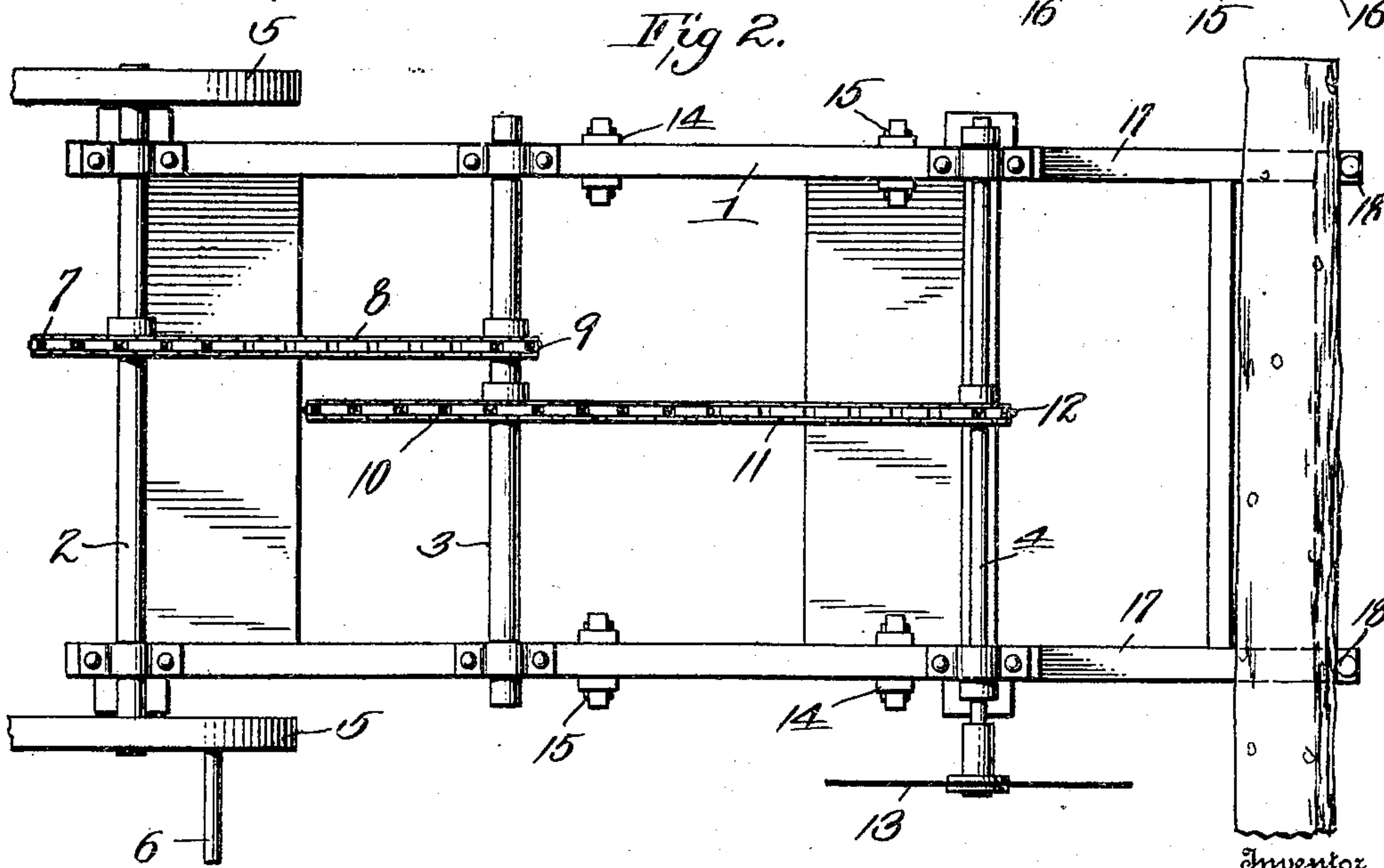


Fig. 2.



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Witnesses

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NORMAN NICKENS, OF UPPER MONTCLAIR, NEW JERSEY.

CIRCULAR HANDSAW.

966,045.

Specification of Letters Patent.

Patented Aug. 2, 1910.

Application filed September 24, 1909. Serial No. 519,422.

To all whom it may concern:

Be it known that I, NORMAN NICKENS, a citizen of the United States, residing at Upper Montclair, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Circular Handsaws, of which the following is a specification.

This invention relates to a circular hand saw designed especially for farm use, although the saw can also be profitably used by carpenters and in small wood yards.

The invention consists in the novel features of construction hereinafter set forth, pointed out in the claim and shown in the accompanying drawings, in which:

Figure 1 is a side elevation, a portion of a hand wheel being broken away. Fig. 2 is a plan view. Fig. 3 is a section on the line 3—3 of Fig. 1, and greatly enlarged.

In these drawings 1 represents a portable frame which can be moved from place to place either upon a truck or which, if desired, can be mounted upon wheels. The frame 1 is provided with transverse shafts 2, 3 and 4 and upon the ends of the shaft 2 are mounted heavy balance wheels 5 one of which is provided with a handle 6. Fixed upon the shaft 2 is a sprocket wheel 7, preferably one foot in diameter, over which runs a sprocket chain 8 and this chain runs over a three-inch sprocket wheel 9 fixed upon the shaft 3. On the shaft 3 is also rigidly mounted a sprocket wheel 10 two feet in diameter, and the sprocket chain 11 runs over this wheel and over a small three-inch sprocket wheel 12 on shaft 4. Upon one side of the frame the shaft 4 carries a circular saw 13. Suitable hangers 14 depend from

the upper side members of the frame 1 and these hangers carry rollers 15 mounted on ball bearings 16, the various rollers being below and transverse to the upper side members of the frame. Traveling through the hangers and resting upon the rollers are side members 17 of a carriage, uprights 18 being placed at the rear end of said side members, and the wood to be sawn is placed transversely upon said carriage and rests against said uprights.

In operation, the handle 6 is rotated, thus driving the circular saw at a great speed, and the carriage is moved, the side members traveling upon the rollers 15, thus bringing the wood into engagement with the circular saw. By hanging the carriage beneath the frame the side members of said frame form guides for the upper faces of the members 17 of the carriage so that the construction of the carriage is very simple and it can be manufactured or repaired at a low cost.

What I claim is:

The combination with a saw frame having upper side members, of depending brackets carried by said side members, rollers carried by said hangers, the rollers resting transversely with respect to the said side members and being below and spaced from the same, and a carriage having side members working through the hangers and between said rollers and the side members of the frame, as and for the purpose set forth.

NORMAN NICKENS.

Witnesses:

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