

J. P. DEWITT.
CROSSCUT SAW.

(Application filed Apr. 11, 1900.)

(No Model.)

Fig. 1.

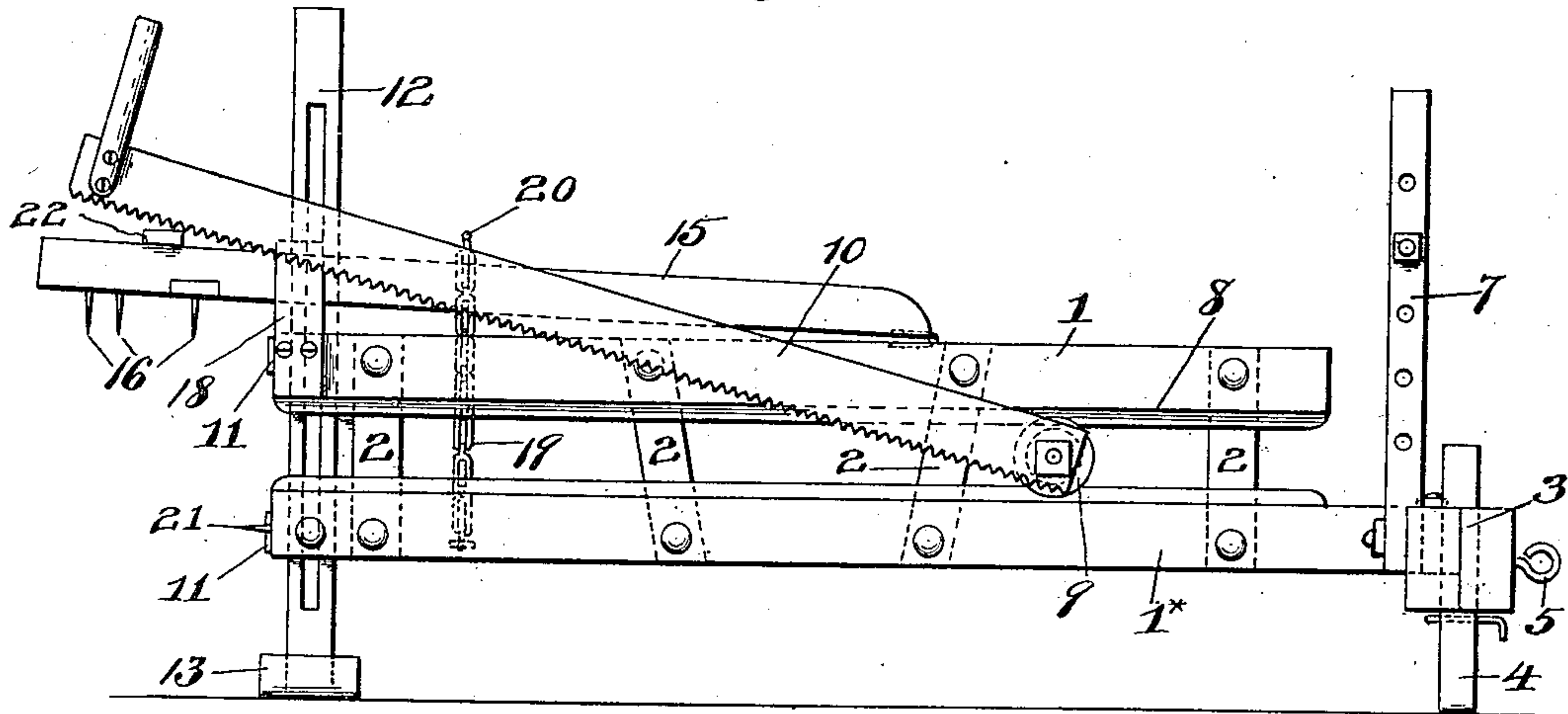


Fig. 2.

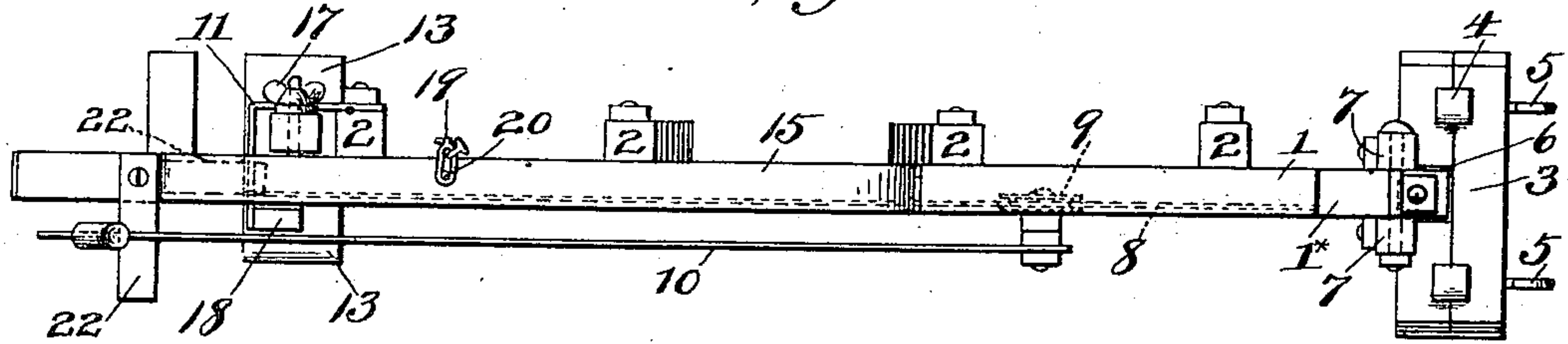


Fig. 3.

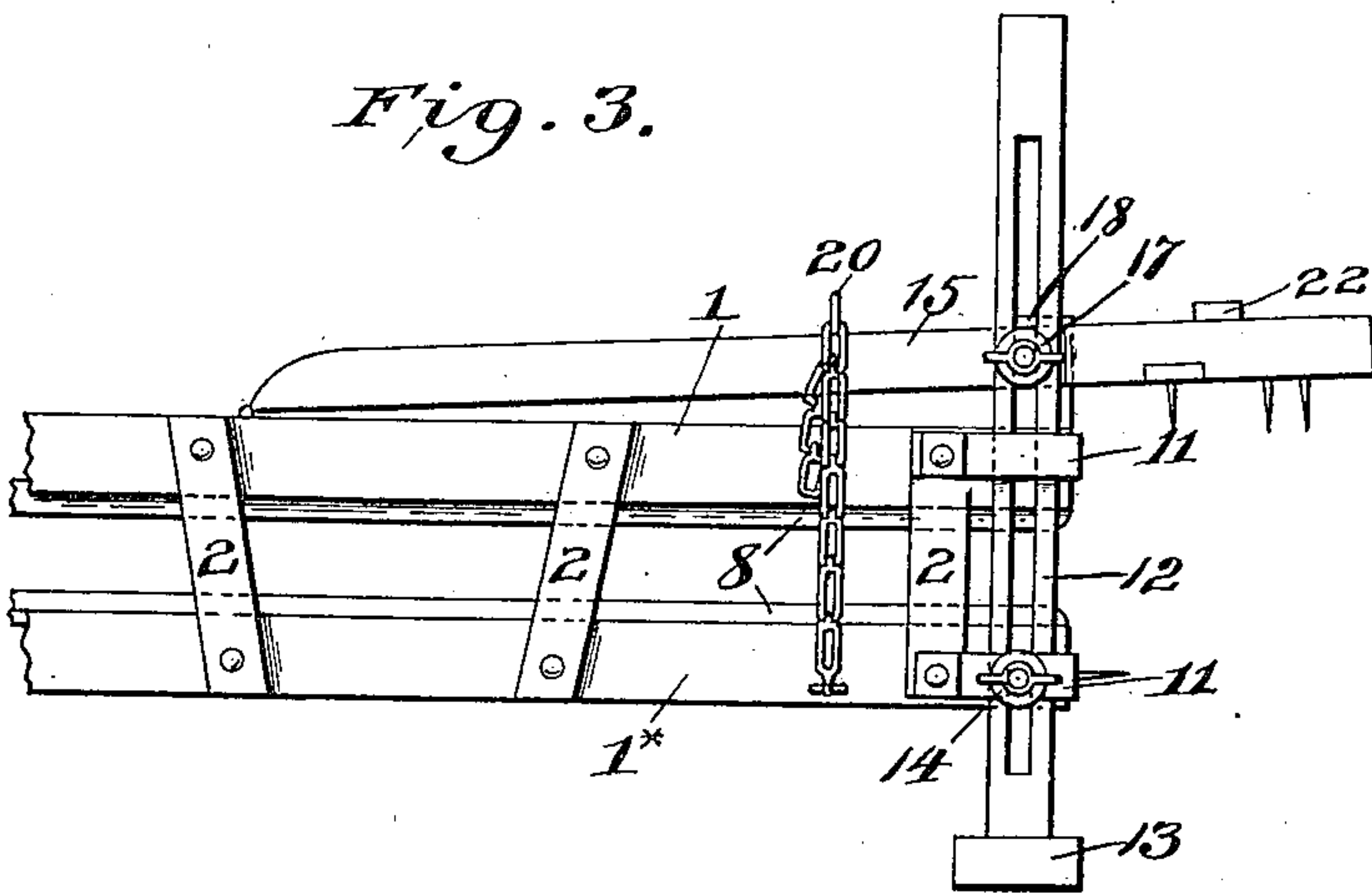
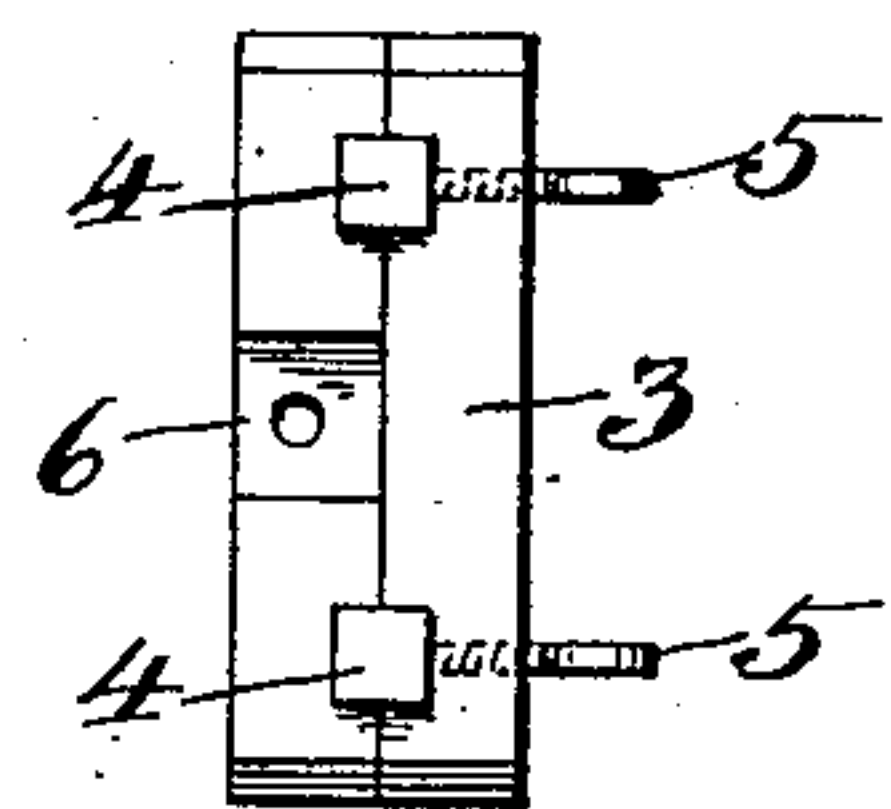


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN P. DEWITT, OF TROY, PENNSYLVANIA.

CROSSCUT-SAW.

SPECIFICATION forming part of Letters Patent No. 663,534, dated December 11, 1900.

Application filed April 11, 1900. Serial No. 12,432. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. DEWITT, a citizen of the United States, residing in Troy township, in the county of Bradford and State of Pennsylvania, have invented certain new and useful Improvements in Crosscut-Saws, of which the following is a specification.

My invention relates to crosscut-saws, and has for one of its objects to provide means whereby one man can use said saw.

Another object of my invention is to provide a crosscut-saw the cutting power of which is greatly increased.

Another object of my invention is to provide a crosscut-saw which is automatically guided straight.

These objects I accomplish in the manner and by the means hereinafter more fully described in detail, and particularly pointed out in the claims, reference being had to the accompanying drawings, in which like figures indicate like parts in all the views.

Figure 1 is a side view of my invention. Fig. 2 is a top plan view of same. Fig. 3 is a side view of the front end with the saw omitted. Fig. 4 is a detail view of the cross-block.

My invention consists of two beams 1 1*, rigidly secured parallel to each other by braces 2 on one side. The rear end of the lower beam 1* is supported by the cross-block 3, which rests on legs 4, said legs 4 passing through holes in block 3, where they may be secured at any desired height by set-screws 5. In the front of the top of the block 3 is a recess 6, in which the rear end of the lower beam 1* is secured when it rests on such block 3. Secured on each side of the recess 6 are vertical standards 7, between which the rear end of the lower beam 1* may be secured at different heights. Secured along the under side of the upper beam 1 and the upper side of the lower beam 1* are tracks 8, between which the grooved wheel 9 runs. The grooved wheel 9 is secured at the side of one end of an ordinary crosscut-saw 10.

Secured to the forward ends of the beams 1 1* on the side with the braces 2 are slides 11, through which an upright longitudinally-slotted standard 12, supported by a flat foot 13, passes. Passing through the slide 11 on

the lower beam 1*, through the slot in standard 12 and the lower beam 1*, is a bolt 14.

Hinged to the top of the upper beam 1 is a beam 15, that projects beyond the forward ends of the beams 1 1* and is provided on the under side of its forward end with spikes 16, adapted to be driven into the thing to be cut. A bolt passes through the beam 15 and the slot in the standard 12 and is secured by a thumb-nut 17. A guide 18 is secured to the side of the upper beam 1 and extends upward opposite the standard 12. A chain 19 is secured to the side of the lower beam 1* on the side with the braces 2 and adapted to pass over a hook 20 in the top of the beam 15 and hold said beam 15 and the beams 1 1* together at different intervals. The lower beam 1* is provided with a spike 21 in its forward end. 22 is an arm pivoted to the top of the beam 15, adapted to be swung laterally and support the saw when not in use.

The operation of my invention is as follows: In sawing logs the beams 1 1* being adjusted level and plumb by means of the legs 4, the standards 7, and standard 12, the beam 15 is secured to the top of the log by the spikes 16 and the spike 21 driven into the log. The saw 10 is started close up to the guide 18 and pulled easily until about the middle of saw 10 is reached, when the weight is put upon the saw 10, the momentum acquired and the progressive power of the wheel 9 aiding to carry the stroke through easily. The same thing is done on the back stroke. If it is desired to saw upward instead of downward, the saw 10 is taken from the wheel 9 and turned over and the wheel 9 secured on the other side. In cutting down trees the rear end of the lower beam 1* is turned half around and secured between the standards 7 and the saw 10 can be used horizontally.

In using the device at a workbench there is no need to watch to see if the saw 10 is going straight, and a miter-box can be dispensed with.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A crosscut-saw comprising upper and lower adjustable tracks, a saw provided with a wheel adapted to operate between said

tracks, a slotted standard, a beam one end hinged to the upper track, and the opposite end provided with spikes, and means by which it is adapted to be adjusted and secured at different heights on said slotted standard, substantially as shown and described.

2. A crosscut-saw comprising in combination, tracks, a saw provided with a wheel adapted to operate between said tracks, a beam hinged to the upper track and provided with a pivoted saw-supporting arm, substantially as shown and described.

3. A crosscut-saw comprising in combination upper and lower beams with adjustable tracks, a saw provided with a wheel adapted to operate between said tracks, the lower beam provided with a spike in its end, and the upper beam provided with an adjustable hinged beam having spikes, and a pivoted saw-supporting arm, substantially as shown and described.

4. A crosscut-saw comprising in combination upper and lower adjustable beams having tracks, a saw provided with a wheel adapted to operate between said tracks, a guide on said upper beam, a slotted standard, a beam one end hinged to the upper adjustable beam and the opposite end provided with spikes, and means for adjusting and securing said beam on said slotted standard, substantially as shown and described.

5. A crosscut-saw comprising in combination upper and lower beams with tracks supported at one end between standards, and at the opposite end by a slotted standard on which they are adapted to be adjusted, a beam one end hinged to the upper beam, and the opposite end provided with spikes, and means for adjusting and securing said beam at different heights on said slotted standard, substantially as shown and described.

6. A crosscut-saw comprising in combina-

tion adjustable beams with tracks, a slotted standard, slides at one end of said beams which embrace and are adapted to be adjusted on said standard, a saw provided with a wheel adapted to operate between said tracks, substantially as shown and described.

7. In combination with a crosscut-saw, parallel tracks adjustably supported at one end between standards secured to a cross-block mounted on extensible legs and at the other end slidably fixed upon a slotted standard and a wheel running between said tracks and attached to one end of said saw, substantially as shown and described.

8. In combination with a crosscut-saw, parallel tracks carried by beams rigidly braced on one side, a wheel running between said tracks and attached to one end of said saw, a cross-block having legs passing through it and secured by set-screws at different heights, said cross-block provided with a recess in its top front adapted to receive the rear end of the lower beam, vertical standards attached to said cross-block on each side of said recess and adapted to sustain said rear end of said beam at different heights, a vertically-slotted standard slidably attached to the forward ends of said beams, a beam hinged to the top of the upper beam and projecting beyond the forward ends of said beams and provided with spikes beneath its front end, said hinged beam adapted to be secured at different heights on said slotted standard and connected by a chain hooked over a pin with said lower beam, substantially as shown and described.

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

JOHN P. DEWITT.

Witnesses:

LEWIS ROBINSON,
C. L. FELLOWS.