

No. 737,330.

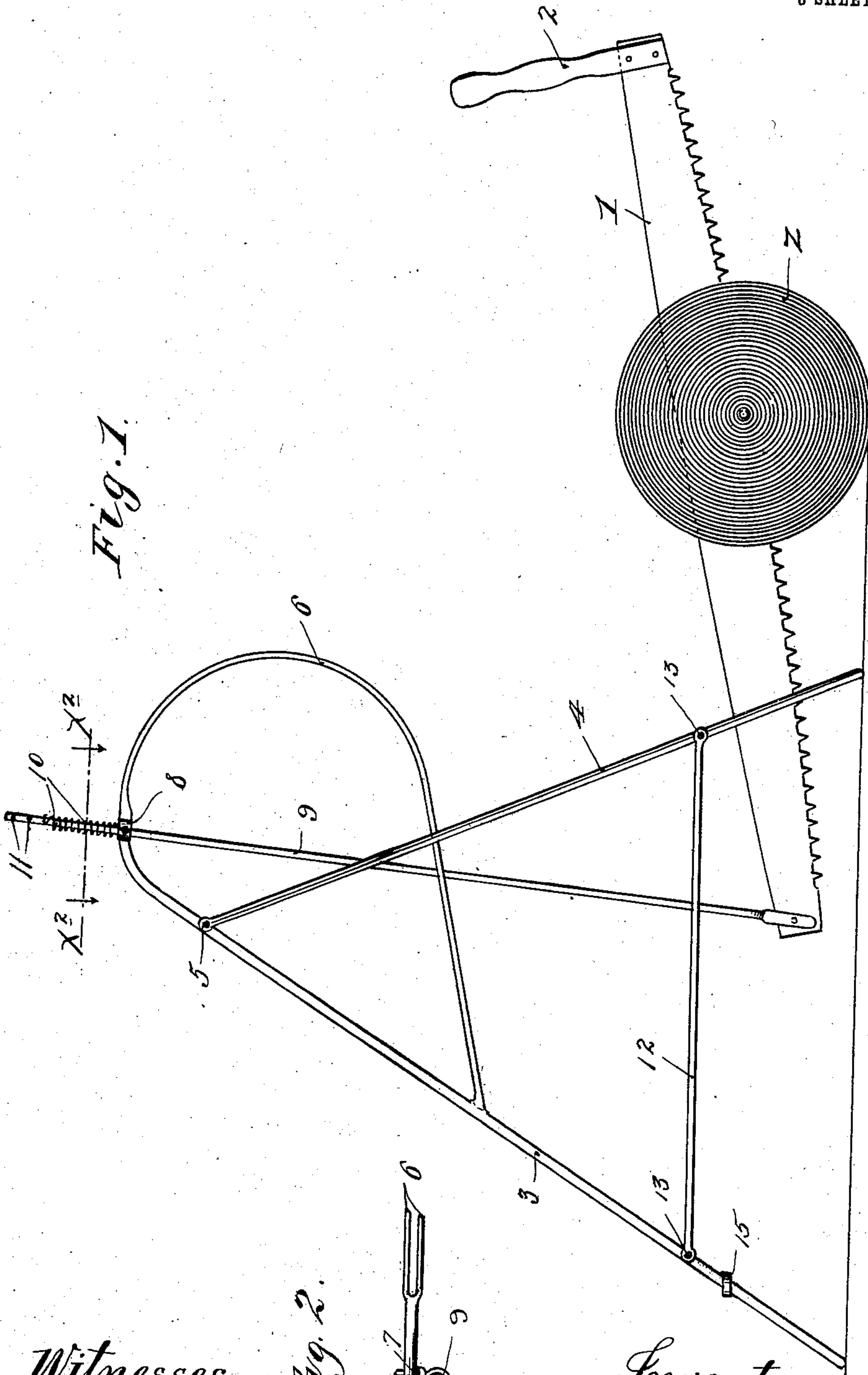
PATENTED AUG. 25, 1903.

B. A. BRINK.
SAW GUIDE.

APPLICATION FILED MAR. 5, 1903.

NO MODEL.

3 SHEETS—SHEET 1.



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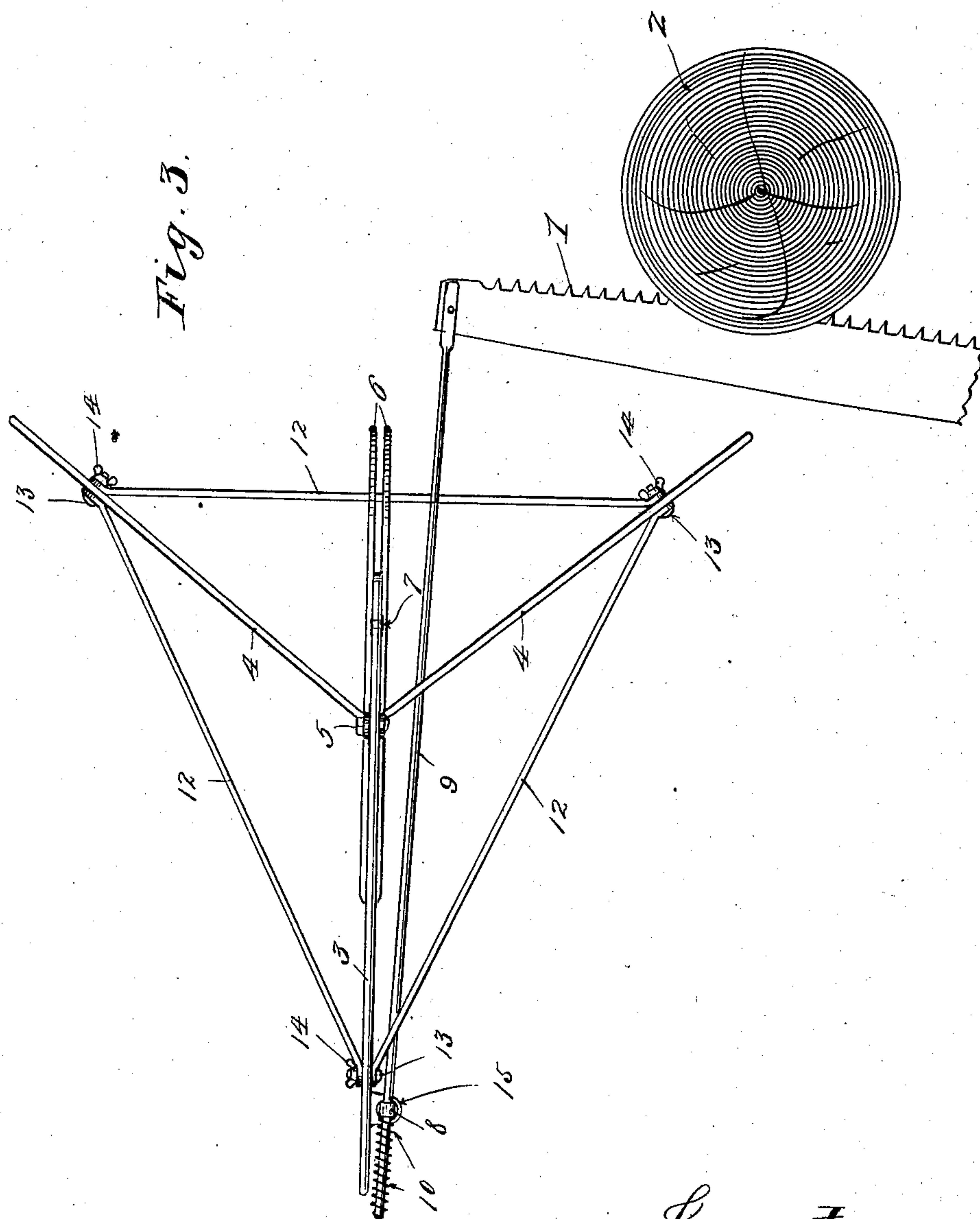
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3 SHEETS—SHEET 2.



Witnesses
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N. D. Kilgore.

Inventor.
Bengt A. Brink
By his Attorneys.
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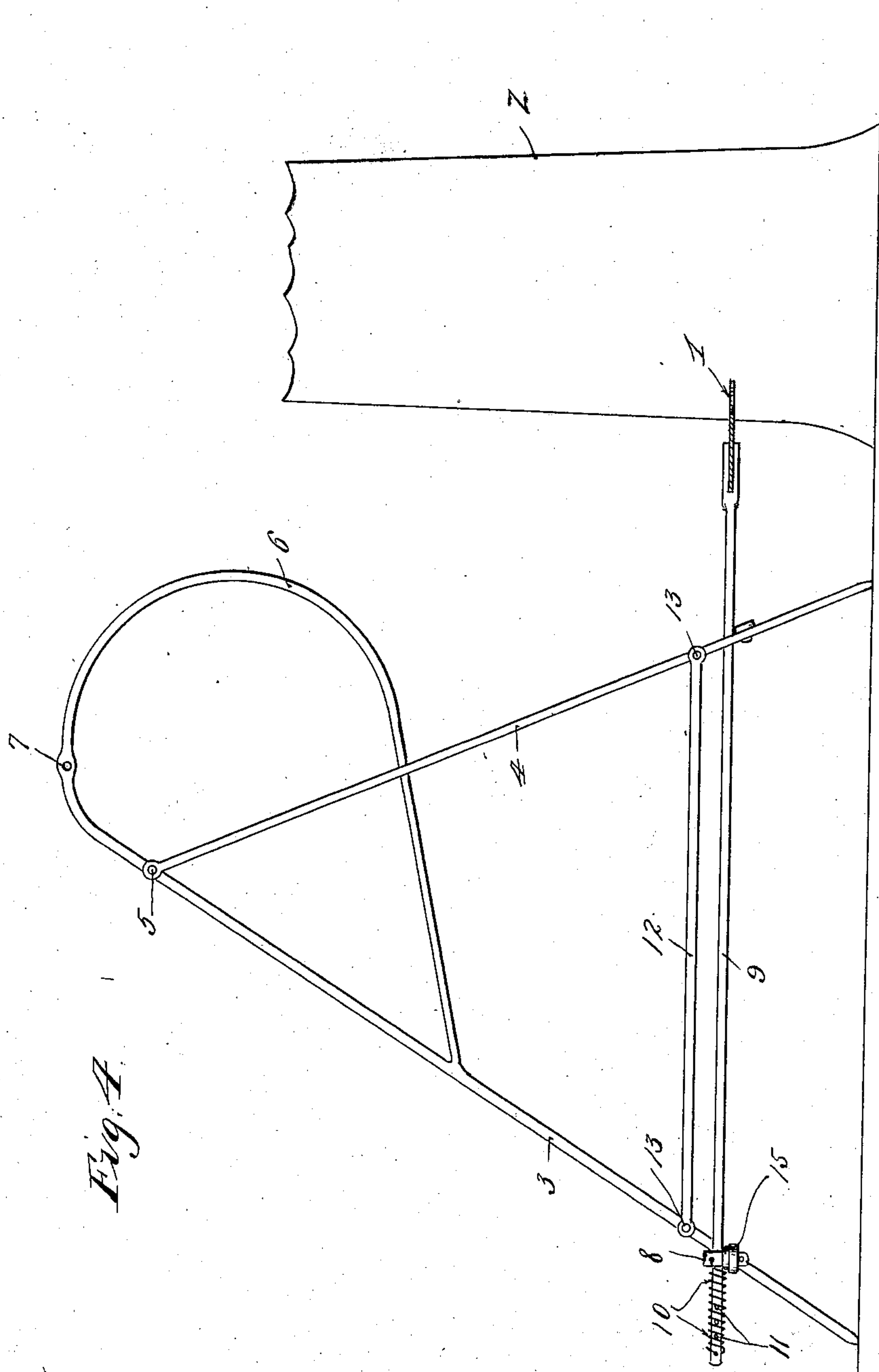
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

BENGT A. BRINK, OF CUSHING, WISCONSIN.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 737,330, dated August 25, 1903.

Application filed March 5, 1903. Serial No. 146,288. (No model.)

To all whom it may concern:

Be it known that I, BENGT A. BRINK, a citizen of the United States, residing at Cushing, in the county of Polk and State of Wisconsin, have invented certain new and useful Improvements in Saw-Guides; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has for its object to provide an improved saw-support adapted to support one end of a crosscut-saw, and thus enable the saw to be operated by one man instead of by two, as is ordinarily necessary.

To the above ends the invention consists of the novel devices and combinations of devices hereinafter described, and defined in the claim.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Figure 1 is a view in side elevation, showing a crosscut-saw supported at one end by my improved device and showing the saw as in position for action on a log. Fig. 2 is a detail in section on the line $x^2 x^2$ of Fig. 1, some parts being broken away. Fig. 3 is a plan view of the saw and supporting device shown in Fig. 1, showing the same adjusted to support the saw so that it will cut in a horizontal plane instead of a vertical plane; and Fig. 4 is a view in side elevation of the parts shown in Fig. 2.

The numeral 1 indicates an ordinary crosscut-saw, and the character z indicates a log or tree. The saw is provided at one end only with a handpiece 2, and its other end is supported by my improved device.

The frame of the improved support is preferably in the form of a tripod made up of three legs 3 and 4, the two legs 4 being pivoted to the legs 3 at 5. The leg 3 at its upper portion is pronged and bent to form a segmental guide 6, both extremities of which guide are, as shown, formed integral with the said leg 3. At the junction of the segmental guide 6 with said rod 3 is a bearing 7, in which is swiveled a headed pivot-bolt 8, through the head of which works a connecting-rod 9, the free end of which rod is connected to that

end of the saw 1 which has no handpiece. A coiled spring 10 surrounds the upper end of the rod 9. At its lower end this spring is suitably attached to the head of the pivot-bolt 8, while at its upper end it is adjustably attached to the said rod 9 by being passed through one or the other of a series of perforations 11, formed in the said rod. Three brace-rods 12 space apart and connect the lower portions of the three legs of the support. These brace-rods 12 are preferably connected to the said legs by short bolts 13, having thumb-nuts 14. On the lower portion of the leg 3 is a pivot lug or ear 15, having a vertical perforation, through which the trunnion of the pivot-bolt may be inserted, as hereinafter described.

To adjust the device for holding a saw which is to be used for cutting a fallen log or, in other words, which is to cut in a vertical plane, the swinging rod 9 is supported as shown in Fig. 1, and the forward brace-rod 12 must then be removed, so as to afford clearance for the saw. The said swinging rod 9 when supported as described works between the rods of the guide 6 and is held against lateral movement thereby. The saw is operated by taking hold of the handpiece 2. The swinging rod 9 supports the free end of the saw under its vibrating movements and yieldingly presses the same downward and causes the saw to keep engagement with the bottom of the cut. Otherwise stated, the swinging spring-pressed rod 9 supports one end of the saw and forces the saw to its work very much in the same manner as the saw would be operated by a man holding that end of the saw; but of course the cutting force must be supplied by the man at the other end of the saw.

To adjust the device to hold a saw so that it will cut in a horizontal plane, as when it is desired to cut off a stump or to cut down a tree, the trunnion of the pivot-bolt 8 is applied to the lug or ear 15, and the forward brace-rod 12 being then applied in working position, as shown in Figs. 3 and 4, the intermediate portion of the saw is rested upon the said forward rod and the device is then in condition for use for the purpose just stated.

In both adjustments illustrated the spring 10 yieldingly holds the saw to its work and

causes the same to follow up the cut. In transferring the pivot-bolt 8 from the one adjustment described to the other it is not necessary to disconnect the spring 10 therefrom or from the rod 9. By adjusting the spring 10 its tension on the saw may be varied to suit the conditions of the work.

By actual usage of the device I have found the same to be extremely efficient for the purposes had in view.

It will of course be understood that the device is capable of modification within the scope of my invention as herein set forth and claimed.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:
The combination with a support, made up

of legs 3 and 4, and spacing-rods 12, one of said legs having the segmental guides 6, of the pivot-bolt 8, swiveled on the upper portion of said frame, the swinging rod 9, working through the head of the said bolt 8, the spring 10, attached to said bolt, at one end, and adjustably connected to said rod 9, at its other end, and a saw 1, pivotally connected to the free end of said rod 9, substantially as and for the purposes set forth.

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

BENGT A. BRINK.

Witnesses:

S. J. HOOVER,
E. J. IVERSON.