

No. 814,886.

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B. C. SWAGGERT.
UNDERCUT SAW GUIDE.
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Fig. 1.

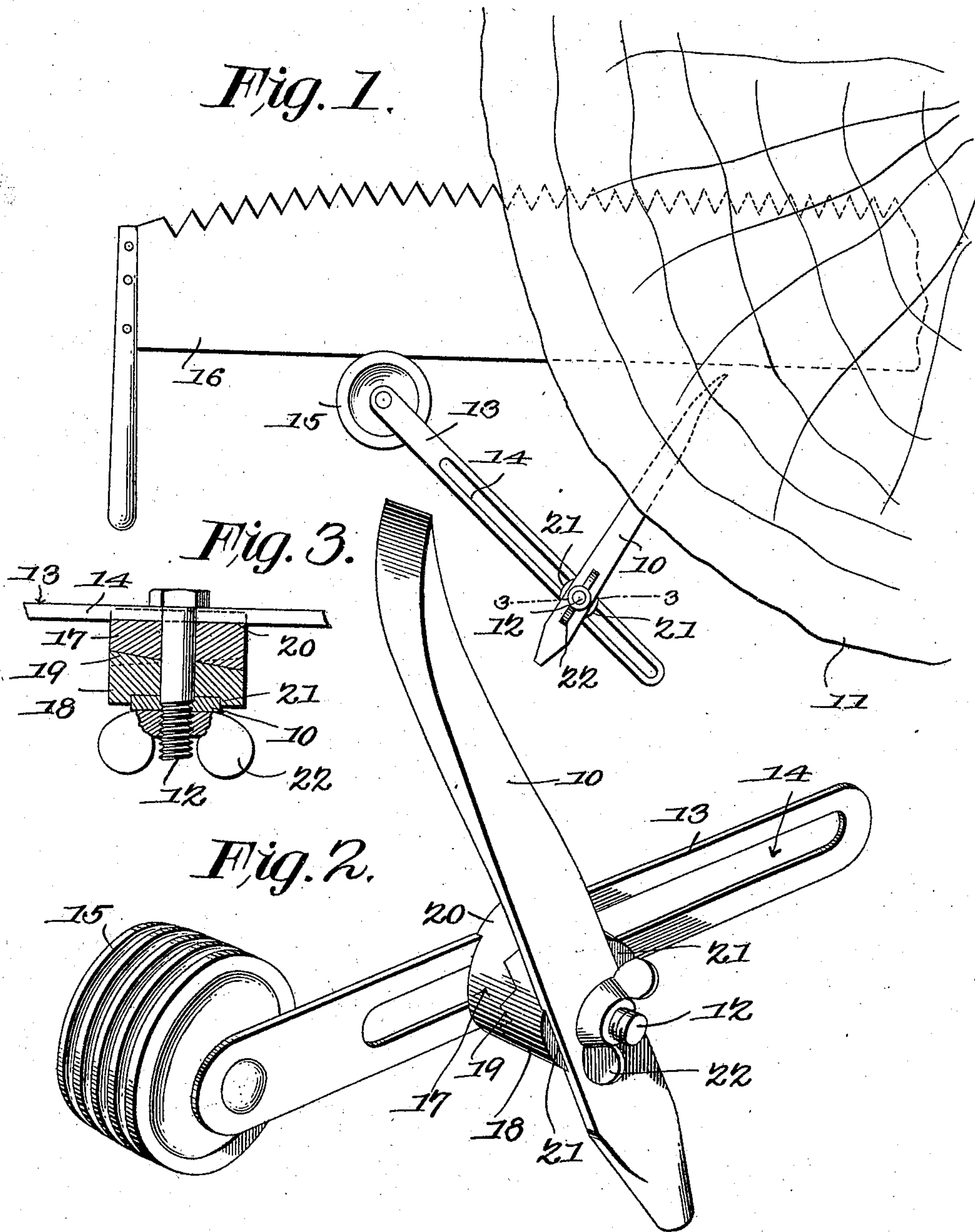


Fig. 2.

Witnesses

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BERT CONWAY SWAGGERT, OF EUREKA, CALIFORNIA.

UNDERCUT-SAW GUIDE.

No. 814,886.

Specification of Letters Patent.

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Application filed February 28, 1905. Serial No. 247,647.

To all whom it may concern:

Be it known that I, BERT CONWAY SWAGGERT, a citizen of the United States, residing at Eureka, in the county of Humboldt and State of California, have invented a new and useful Undercut-Saw Guide, of which the following is a specification.

This invention relates to devices for supporting and guiding crosscut-saws while undercutting logs, and has for its object to improve and simplify the construction and increase the efficiency and convenience of devices of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as herein-after fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings, Figure 1 is a side elevation of the improved device applied. Fig. 2 is an enlarged perspective view of the improved device detached. Fig. 3 is a transverse section, enlarged, on the line 3 3 of Fig. 1.

The improved device comprises a bar 10, pointed at one end for driving into a log, as represented at 11, and with a clamp-bolt 12, passing therethrough near the outer or driving end. An arm 13, provided with a longitudinal slot 14, fits over the bolt 12 and is provided with a guide-roller 15, having a plurality of spaced grooves in its rim to receive the back of the saw, (represented at 16.) Mounted upon the bolt 12 between the bar 10 and arm 13 are two disks 17 18, having radial interengaging serrations 19 in their adjacent faces and with spaced ribs 20 upon the outer face of the disk 17 for embracing the arm 13 and with similar spaced ribs 21 on

the outer face of the disk 18 for embracing the bar 10. The bolt 12 is provided with a wing-nut 22, bearing upon the bar 10.

With a device thus constructed when a log is to be sawed from beneath, or "undercut," the bar 10 is driven into the log adjacent to where the cut is to be made and the guide-pulley 15 adjusted by means of the bolt 12, disks 17 18, and slotted arm 13 to bring the guide-pulley in proper position to carry the back edge of the saw and support the same while in action. As the sawing progresses the arm 13, carrying the guide-pulley 15, can be easily adjusted upwardly to follow the saw, as will be obvious.

For an ordinary-sized log the range of adjustment will be sufficient to complete the sawing by one setting of the bar 10; but larger logs may require the bar to be reset once or more.

The device is simple in construction, can be manufactured at small expense, and is durable in construction and efficient in action.

Having thus described the invention, what is claimed is—

A drag-saw support and guide, consisting of an arm for driving into a log and provided with an intermediate transverse aperture, an arm having a longitudinal slot, a saw-guiding roller connected to said slotted arm at one end, a disk having a central aperture and radial serrations on one face and spaced ribs upon the other face for bearing over the edges of said slotted arm, a disk having a central aperture and radial serrations upon one face engaging the serrations on said first-mentioned disk and with spaced ribs upon the outer face for bearing over the edges of said log-engaging arm adjacent to the aperture therein, a bolt having a head at one end and extending through the slot in said roller-bearing arm and the apertures in the serrated disks and the log-engaging arm, and a clamp-nut operating on said bolt and bearing against said log-engaging arm.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

BERT CONWAY SWAGGERT.

Witnesses:

W. F. CLYBORNE,
F. M. KAY.