



# UNITED STATES PATENT OFFICE.

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## UNDERCUTTER-SUPPORT.

948,836.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM JEFFERSON WHITWORTH, a citizen of the United States, and a resident of North Bend, in the county of Coos and State of Oregon, have invented a new and Improved Undercutter-Support, of which the following is a full, clear, and exact description.

This invention relates to undercutter-supports for saws, and particularly to the means of adjusting the supporting-arm, and to the means of adjusting the holding-dog.

An object of this invention is to provide an improved means of adjusting the supporting-arm relative to the holding-dog.

Another object of this invention is to provide an improved means of adjusting the holding-dog relatively to the other parts.

These and other objects are to be more fully described hereinafter and particularly pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which like reference characters denote corresponding parts in both the views, in which—

Figure 1 is a perspective view of the device; and Fig. 2 is an enlarged view, partly in section, showing the means of adjusting the supporting-arm relatively to the other parts.

In sawing logs it is often advisable to saw them from the under side, and in order to have a suitable support for the saw it is ordinarily necessary to repeatedly remove the supporting device from its resting point and adjust it relatively to the log. This invention has for its object to do away with this disagreeable task of removing the support, and has a simple means of adjusting the support relatively to the arm.

Referring particularly to the separate parts of the device, 1 represents the supporting-frame, which may be of any suitable form. As shown, it has a cylindrical portion 2 which has a slot 3 therein. Through this slot is adapted to slide a holding-dog 4. This holding-dog is adjustable in the slot 3 and is adapted to be fastened in any adjusted position therein by means of a clamping-screw 5. This clamping-screw 5 is preferably in the form of an angle-piece having a screw-threaded portion 6 on its shorter end, at the end of which is a curved bearing surface 7. The other end of the clamping-screw has a tapered square portion

8. This portion is adapted to be lengthened by means of a hollow bar in order to give an additional leverage in either tightening or removing the screw. The other end of the frame 1 has a projecting cylinder 9 thereon. This projecting cylinder 9 has recesses 10 therein.

Pivotally supported on the frame 1, by means of a bifurcated end 11, is a supporting-arm 12. This supporting-arm 12 has a shank 13 extending at an angle, on which is rotatably supported a saw-supporting roller 14. This saw-supporting roller has a plurality of grooves 15 in its circumference adapted to support the saw at variable distances from the arm 12. Supported on this arm 12 is a casing 16, in which is adapted to slide a pawl 17. This pawl 17 has a cylindrical head 18 which is adapted to fit in the recesses 10 in the supporting frame 1. At the other end of this pawl 17 is a finger-hold 19 extending at an angle to the main body of the pawl. Within the casing and surrounding the pawl 17 is a spiral spring 20 which is adapted to engage the casing 16 at one end and the flange on the head 18 at the other end, and tends to force the head of the pawl into the openings 10. The dog 4 has on one end thereof, a sharpened point or edge 21.

In the operation of the device, the holding-dog 4 is inserted in the slot 3 and clamped in any suitable adjustment by means of the screw 5. Then the dog is forced into the log or in any suitable support adjacent to the log and the roller 14 adjusted at the angle and height desired. The back of the saw is rested in one of the grooves 15 on the roller 14 and the operation of sawing proceeded with. When the log has been sawed to such a height that it is no longer convenient to continue the operation with the same adjustment of the supporting-arm, the saw is removed and the pawl 17 withdrawn from the openings 10 and the arm adjusted to another height and another angle. The adjustment of the supporting-arm 12 relative to the frame 1 may be continued even until it reaches a position above the frame 1, so that any height of the roller 14 within the limits of twice the length of the supporting-arm 12 may be reached.

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

1. An undercutter-support comprising a

frame, a holding-dog connected to said frame, a supporting-arm pivotally supported on said frame, and a pawl on said arm adapted to engage said frame to lock said arm to the frame.

2. An undercutter-support comprising a frame having recesses, a holding-dog for said frame, a supporting-arm pivoted to said frame, and a pawl on said arm adapted to fit within the recesses in said frame to lock the arm relatively to the frame.

3. An undercutter-support comprising a frame having recesses, a holding-dog adjustable relatively to said frame, a supporting-arm pivoted to said frame, and a spring-pressed pawl on said arm adapted to engage the recesses in said frame to lock the arm relatively to the frame.

4. An undercutter-support comprising a slotted frame having recesses therein, a holding-dog adjustable in the slotted frame, a

locking-pin adapted to lock said dog in its adjusted position, a supporting-arm pivoted to said frame, a spring-pressed pawl on said arm adapted to engage said recessed frame to lock said arm to the frame, and a grooved supporting roller rotatably supported on said arm.

5. An undercutter-support comprising a slotted frame, a holding-dog slidingly adjustable in said slotted frame, a screw locking-bolt for holding said dog in its adjusted position, and a supporting-arm adjustable relatively to the frame.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM JEFFERSON WHITWORTH.

Witnesses:

AMES S. JOHNSTON,  
SARAH JOHNSTON.