

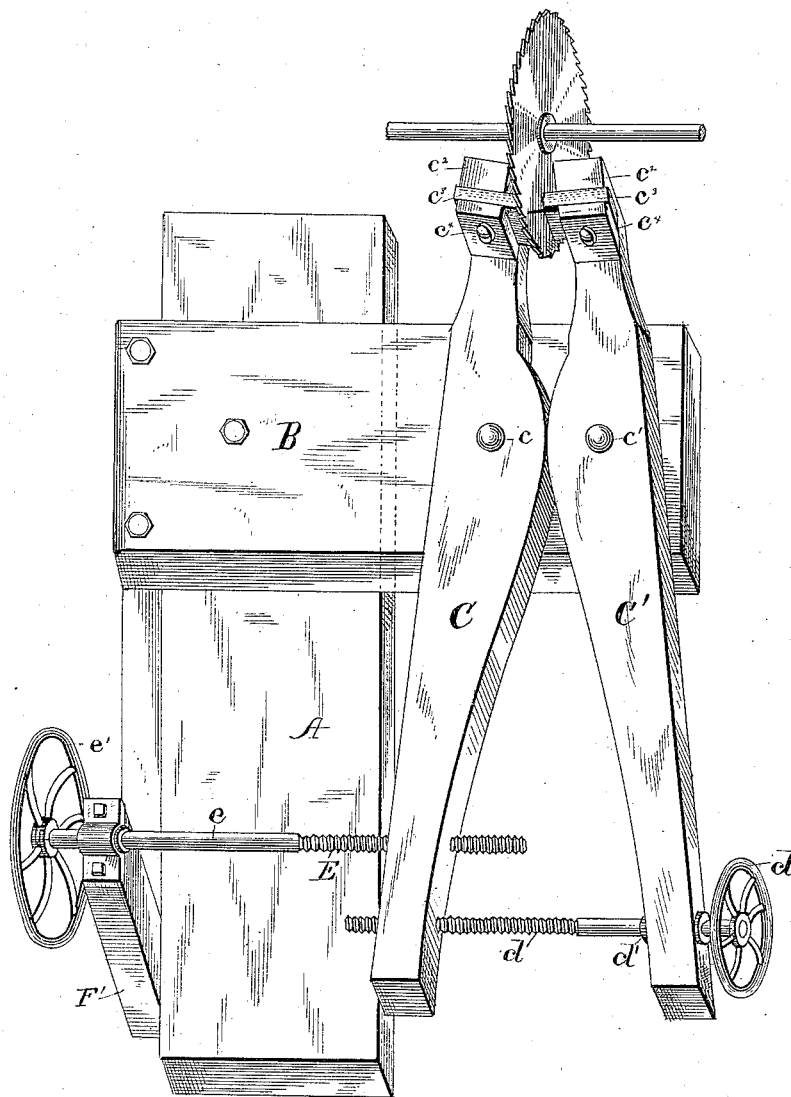
(No Model.)

W. KIRBY.

SAW GUIDE.

No. 307,554.

Patented Nov. 4, 1884.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM KIRBY, OF BYHALIA, MISSISSIPPI.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 307,554, dated November 4, 1884.

Application filed August 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM KIRBY, a citizen of United States, residing at Byhalia, in the county of Marshall and State of Mississippi, have invented a new and useful Improvement in Saw-Guides, of which the following is a specification.

My invention relates to guides for circular saws; and it consists in means for guiding the saw to any desired deflection, even while embedded in the log or lumber.

My device is adapted to be operated by the sawyer while he stands at his post without stooping and without using any tool or instrument, and without stopping the work of sawing.

Saw-guides generally have to be operated by means of cam or lever attachments by a wrench or with a separate tool.

My invention provides very inexpensive and simple means for accomplishing its purpose without the employment of any complicated mechanism, all as hereinafter described, and pointed out in the claims.

The accompanying drawing and the indicating-letters thereon pointing out the several parts thereof plainly illustrate my invention. Said drawing shows a perspective view of my improved saw-guide.

A represents a portion of the saw-box. B is a cross-piece bolted thereto, for a purpose hereinafter set forth.

C C' are saw-guide posts pivoted at *c c'* to the cross-piece B, provided with end blocks, *c²*, extending upwardly, as shown, onto each of which blocks is firmly attached a removable guide-plate, *c³*, made, preferably, of leather, said guide-plates *c³* being held in place by nut *c⁴* or the like. The opposite ends of the guide-posts C C' are provided with apertures in alignment with each other, to receive the screw *d*, the purpose of said screw being to regulate the distance between the blocks *c²*, as it will be readily understood that said blocks will be brought closer together or drawn apart by operation of the screw *d* within its bearings upon the free ends of the guide-posts C C'.

d' is a collar upon the screw *d*, for obvious

purposes. The screw *d* is operated by a hand-wheel, *d'*, or any suitable means. The guide-post C is pierced to receive the operating-screw E, the opposite end of said screw being journaled in bearings upon the upright block E', and terminating in an end shaft, *e*, upon which is adjusted a hand-wheel, *e'*, the function of said screw E and its connections being to simultaneously deflect by direct action and by one movement both of the guide-posts C C' after the guide-plates *c³* have been moved into relative position by means of the screw *d*, as hereinbefore set forth.

The operation of my device is manifest. The workman, by turning the wheel *e'*, moves the guide-posts C C' simultaneously, they being each pivoted to the cross-piece B, as before described, and the saw, being between the leather guide-plates *c³*, will be deflected to the right or left, as the case may be. By simply turning the hand-wheel *d'* the blocks *c²*, with their guide-plates *c³*, may be adjusted near to or withdrawn from the side surfaces of the saw, and said blocks may be separated sufficiently far apart to admit of removal of the guide-plates *c³* when worn and replacement of new ones.

I do not confine myself to any special means for driving the saw, such forming no part of my present invention.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A circular-saw guide consisting of guide-posts C C', having at their opposite ends threaded journal-bearings for reception of an operating screw-threaded shaft, said guide-posts being pivotally connected to the cross-piece B, in combination with screw-threaded shaft E, supplied with hand-wheel *e'*, whereby both of said guide-blocks may be directly and simultaneously deflected to any desired inclination, substantially as described.

2. In a circular-saw guide, the guide-posts C C', having end saw-gripping plates, and being pivotally connected to the cross-piece B, in combination with the screw-threaded shaft *d*, having hand-wheel *d'*, whereby the lateral positions of said gripping-plates may be

changed relatively to each other, as and for the purpose intended, substantially as described.

3. A circular-saw guide consisting of the
5 following elements: the pivoted guide-posts C
C', provided with end blocks, c^2 , said blocks
having keyed thereon removable yielding
guide-plates c^3 , the adjusting-screw d , and

screw-shaft E, all arranged as described, as
and for the purpose intended, substantially as
described.

WM. KIRBY.

Witnesses:

W. H. ROLLINS,
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