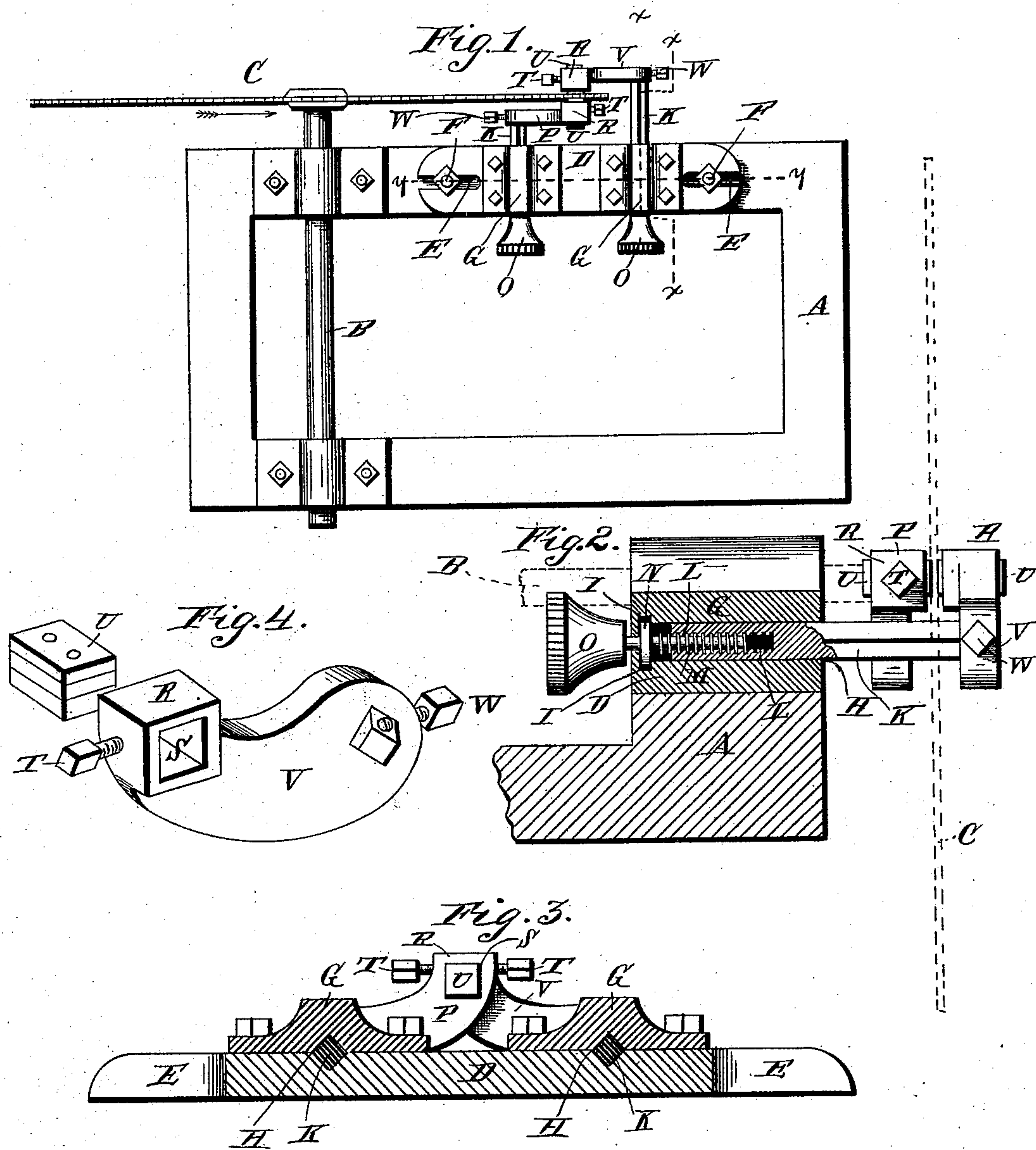


(No Model.)

D. HARRIS.
SAW GUIDE.

No. 360,878.

Patented Apr. 12, 1887.



Witnesses
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UNITED STATES PATENT OFFICE.

DAVID HARRIS, OF OIL CITY, WISCONSIN.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 360,878, dated April 12, 1887.

Application filed December 13, 1886. Serial No. 221,452. (No model.)

To all whom it may concern:

Be it known that I, DAVID HARRIS, a citizen of the United States, residing at Oil City, in the county of Monroe and State of Wisconsin, have invented a new and useful Improvement in Guides for Circular Saws, of which the following is a specification.

My invention relates to an improvement in guides for circular saws; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the drawings, Figure 1 is a top plan view of a circular-saw guide embodying my improvements, showing the manner of arranging the same with reference to the circular saw. Fig. 2 is a vertical transverse sectional view taken on line *x x* of Fig. 1. Fig. 3 is a vertical longitudinal sectional view taken on line *y y* of Fig. 1. Fig. 4 is a detailed perspective view of one of the guide-arms, with the packing-block removed therefrom.

A represents the saw-table, B represents the saw-arbor, and C represents the circular saw, all of which are of the usual well-known construction. On the upper side of the saw-table, and on that edge of the same which is adjacent to the saw, is located a block, D, that is provided at its extremities with longitudinal open slots E. Vertical clamping-screws F pass through the said slots and enter the upper sides of the saw-table, and permit the block D to be adjusted longitudinally on the saw-table and clamped thereto at any desired adjustment.

On the upper side of the block D, near the ends thereof, are bolted a pair of bearing-blocks, G. Between the opposing sides of the said bearing-blocks and the upper sides of the block D are made rectangular transverse openings H, which extend nearly, but not entirely, across the said block D and bearing-blocks G. At the outer ends of the openings H are made circular recesses or openings I between the opposing sides of the blocks and the bearing-blocks.

K represents a pair of shafts or rods, which are rectangular in cross-section and are adapted to fit in the openings H. The inner ends of the said rods are provided with threaded openings L.

M represents a pair of screw-rods, which are adapted to fit the openings L, and are provided near their central portions with annular collars or shoulders N, which fit in the recesses I, and thereby swivel the screw-rods to the blocks D and G. To the outer ends of the said screw-rods are attached knobs or disks O, by means of which the screw-rods may be rotated in either direction, and thereby cause the rods K to be moved in or out from the block G. To the outer end of the rod K is attached a curved guide-arm, P, which bears on the inner side of the circular saw, and has at one extremity a head, R, in which is made a rectangular transverse opening, S. A set-screw, T, extends through a threaded opening made in one side of the head, and the inner end of the said set-screw is adapted to enter the opening S. In the latter is inserted a friction-block, U, which is preferably made of a number of pieces of sole-leather pegged or sewed together. To the outer end of the remaining rod K is attached a similar curved arm, V, which is arranged on the outer side of the circular saw, and is provided, also, with a head, R, a friction block, U, and a set-screw, T, to retain the said friction-block in the head at any adjustment. The curved arms T and V are clamped to the ends of the rods K by means of set-screws W, whereby the curved arms are adapted to be removed from the rod K when desired.

From the foregoing description it will be readily understood that the friction-block may be caused to bear against opposite sides of the circular saw with any desired pressure by adjusting the rods K in or out from the block E, and that as the friction-blocks become gradually worn by contact with the saw they may be moved toward the same and secured at any desired adjustment by means of the screws T. The longitudinal adjustment of the block D, carrying the saw-guides, enables the device to be attached to saws of varying sizes.

The arms V are made detachable from the rods K and adjustable thereon, in order to permit the device to be employed either in connection with a right or a left hand saw-mill. In Fig. 1 the saw-guide is shown arranged on the right-hand side of the saw-arbor, and the saw revolves in the direction indicated

by the arrow. If the saw-guide is to be used on a left-hand saw, or one which revolves in the contrary direction, the base-plate must be placed on the left-hand side of the saw-arbor, 5 the long and short rods K will be removed from the base-plate and replaced therein with their relative arrangement reversed, and the arms will be detached from the said rods and their positions reversed thereon, which will 10 cause the friction-blocks to bear against opposite sides of the saw, as before.

Having thus described my invention, I claim—

1. In a saw-guide, the combination of the 15 base-plate, the adjustable rods K, secured thereto, and adapted to move longitudinally, the arms secured to the said rods, adjustable thereon and detachable therefrom, and the friction-blocks secured in openings extending 20 across the outer ends of the arms and adjustable therein, substantially as described.

2. The combination of the longitudinally-adjustable base-block having the bearing-blocks G, and the transverse openings formed between the said bearing-blocks and the base- 25 blocks, the rods K, having their inner ends fitted in the said openings, the screws L, swiveled in the blocks G and engaging threaded openings in the rods K, and thereby adapted to move the latter longitudinally, and the arms 30 attached to said rods K, independently adjustable thereon, and having friction-blocks to bear on opposite sides of the saw, substantially as described.

In testimony that I claim the foregoing as my 35 own I have hereto affixed my signature in presence of two witnesses.

DAVID HARRIS.

Witnesses:

JANE MOONY,
JENNIE DELAP.