(No Model.)

T. A. McDONALD.

GAGE FOR RIP SAWS.

No. 272,734. Patented Feb. 20, 1883.

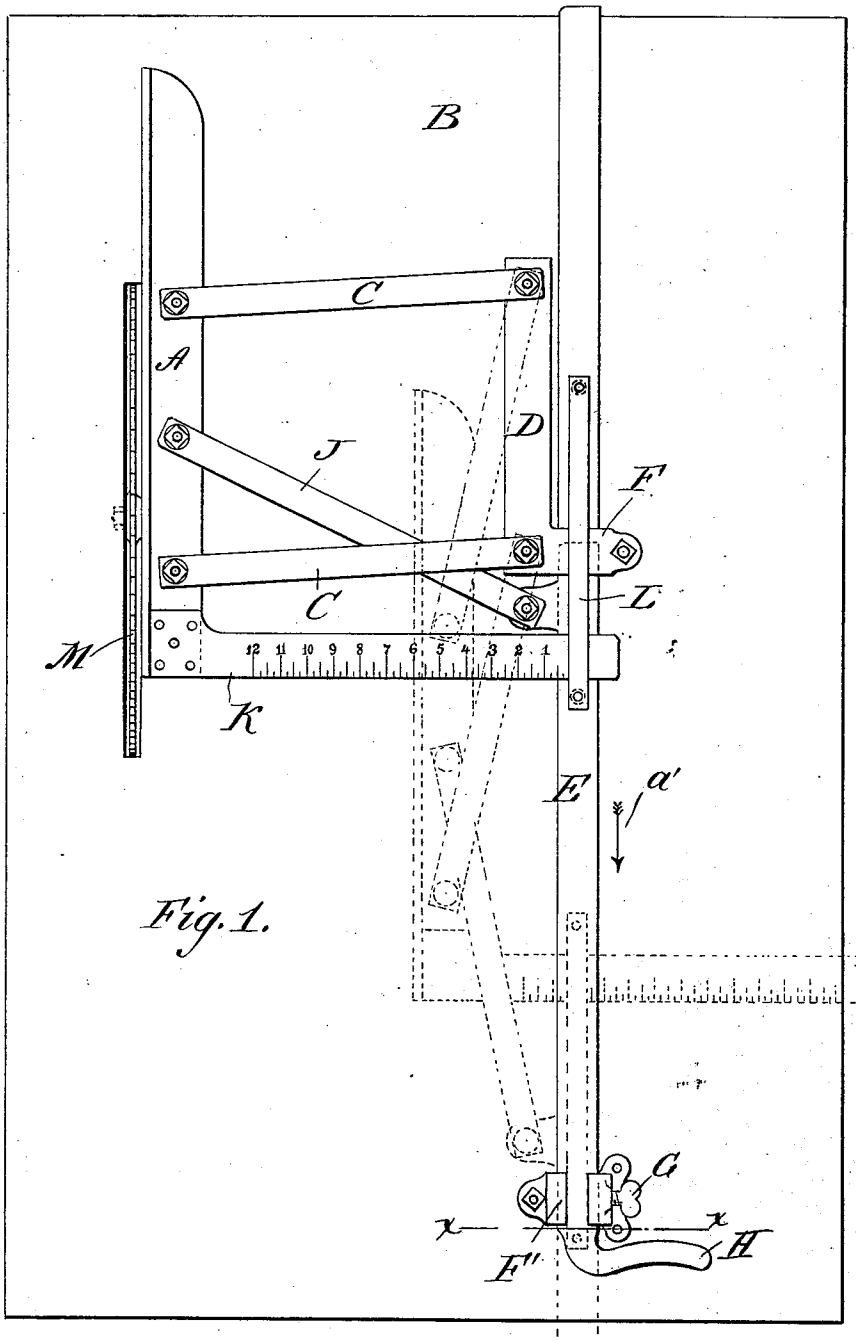


Fig. 1.

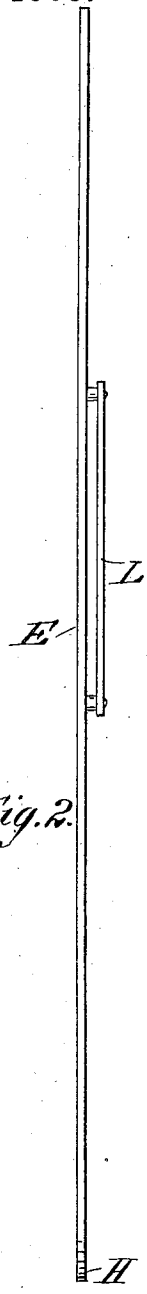
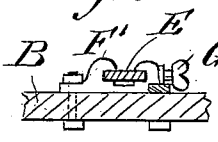


Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

THEODORE A. McDONALD, OF NEW ALBANY, INDIANA.

GAGE FOR RIP-SAWS.

SPECIFICATION forming part of Letters Patent No. 272,734, dated February 20, 1883.

Application filed November 28, 1882. (No model.)

To all whom it may concern:

Be it known that I, THEODORE A. McDONALD, of New Albany, in the county of Floyd and State of Indiana, have invented a new and Improved Gage for Rip-Saws, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved gage for circular saws for ripping boards or planks into strips, which gage can easily and rapidly be adjusted.

The invention consists in a gage-bar attached by means of parallel pivoted bars with a fixed bar and by a link with a longitudinally-sliding bar, whereby if the sliding bar is moved in the direction of its length the gage-bar will be moved toward or from the saw, the distance the gage-bar is moved being indicated by a graduated bar attached to the gage-bar and crossing the sliding bar for moving the gage-bar.

The invention also consists in parts and combinations of the same, as will be fully set forth and described hereinafter.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a plan view of my improved saw-gage. Fig. 2 is a longitudinal elevation of the same. Fig. 3 is a cross-sectional elevation of the same on the line *x x*, Fig. 1.

The sliding gage-bar A rests on the table B, and is connected by means of two pivoted parallel bars, C, with a bar, D, fixed to the table B parallel with the gage-bar A. A bar, E, is held parallel with the gage-bar by guide-clips F F′, fixed on the table, of which guide-clips F′ is provided with a binding-screw, G. The bar E can slide in the direction of its length, and is provided at one end with a handle, H, for moving it. The bar E is connected with the gage-bar A by a link, J, pivoted to both. A graduated bar, K, or rule is attached to one end of the gage-bar A, at right angles to the same, and the free end of the said graduated bar passes under a bar, L, secured on the bar E, whereby a longitudinal horizontal guide-slat for the free end of the graduated bar will be formed between the bar L and the bar E.

The operation is as follows: By drawing the bar E in the direction of the arrow *a′* the gage-bar A will be moved from the saw M, the distance the gage-bar has been moved being shown by the graduated bar K, which passes a greater or less distance through the slot formed between the bars E and L. By moving the bar E in the inverse direction of the arrow *a′* the saw-gage will be moved toward the saw M. By means of the graduated bar K the saw-gage can be adjusted very accurately in the desired position. The saw-gage is locked in position by locking the bar E in position by means of the screw G.

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

1. In a saw-gage, the combination, with the sliding gage-bar A, the parallel bars C, and the fixed bar D, of the sliding bar E, the link J, attached to the same and to the gage-bar, and of the graduated bar K, attached to the end of the gage-bar A, at right angles to the same, substantially as herein shown and described, and for the purpose set forth.

2. In a saw-gage, the combination, with the sliding gage-bar A, the parallel bars C, and the fixed bar D, of the sliding bar E, the bar L on the same, the link J, and the graduated bar K, attached to the end of the gage-bar and passing between the bars E and L, substantially as herein shown and described, and for the purpose set forth.

3. In a saw-gage, the combination, with the sliding gage-bar A, the parallel bars C, and the fixed bar D, of the sliding bar E, the link L, the graduated bar K, the guide-clips F F′, and the binding-screw G, substantially as herein shown and described, and for the purpose set forth.

4. In a saw-gage, the combination, with the sliding gage-bar A, the parallel bars C, and the fixed bar D, of the sliding bar E, having a handle, H, the link L, the graduated bar K, the guide-clips F F′, and the binding-screw G, substantially as herein shown and described, and for the purpose set forth.

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Witnesses:
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