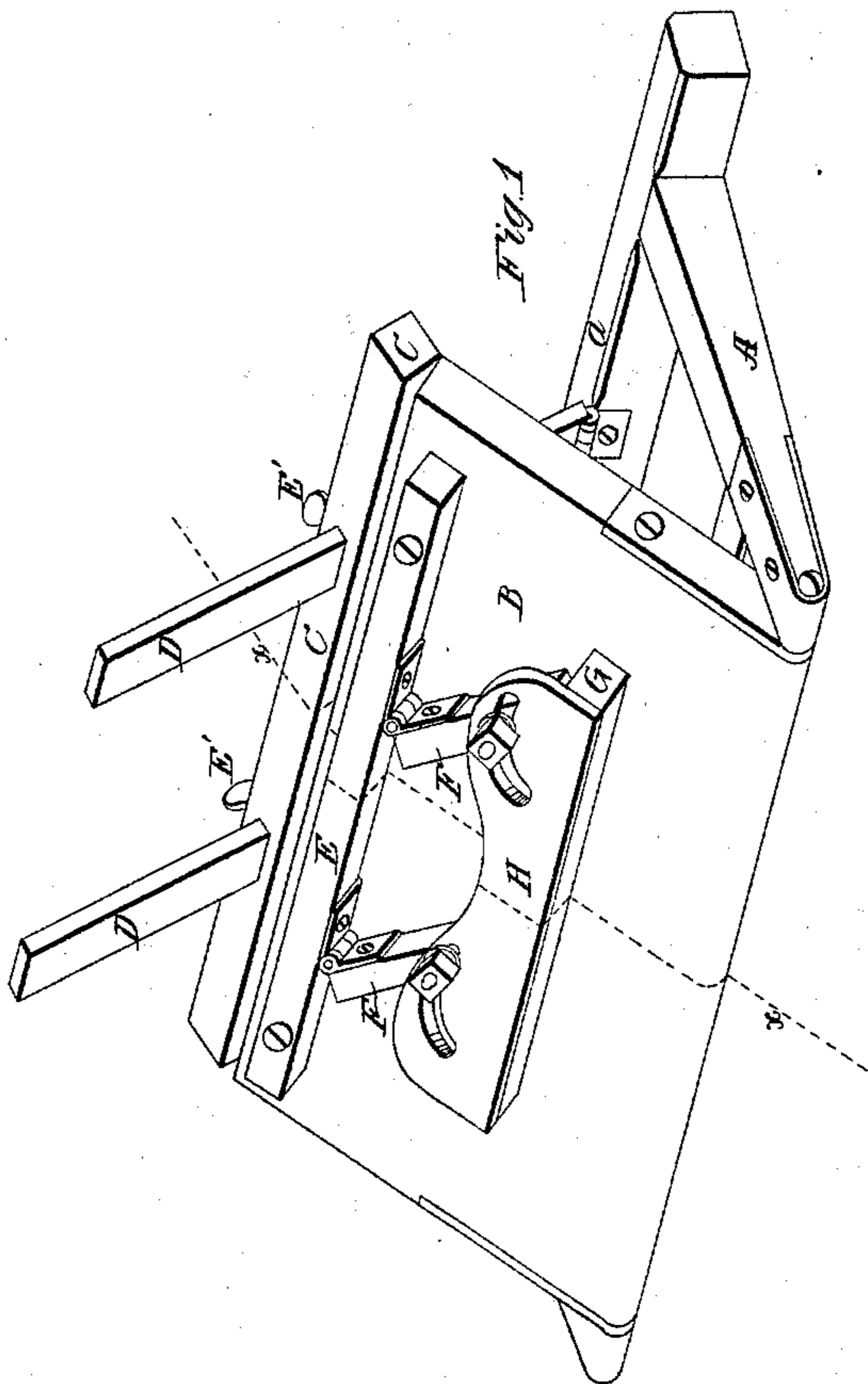


J. D. Riley,
Circular Sawing Machine.

Patented Feb. 12, 1867.



Inventor:
John D. Riley
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United States Patent Office.

JOHN D. RILEY, OF CINCINNATI, OHIO.

Letters Patent No. 62,071, dated February 12, 1867; antedated February 2, 1867.

IMPROVEMENT IN GAUGES FOR CIRCULAR SAWING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN D. RILEY, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a new and useful Improvement in Bevelling Machines; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a perspective view; and

Figure 2 is a sectional view in the line *xx* of fig. 1.

My invention consists in the employment of a hinged adjustable bevelling fence and guide bar by means of which a board may be bevelled to any desired angle.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A A, figs. 1 and 2, are the arms of the fence, to which is hinged the bevelling fence B, which can be raised or lowered to cut at any desired angle. To the back edge of the bevelling fence B is hinged a piece, C, having slots made in it through which pass the upright arms D D, which latter are also hinged at their lower ends to the back cross-rail *a* of the arms of the fence; set-screws E' E' pass into the piece C and bear against the upright arms D D, to hold the bevelling fence at any desired angle. It will be seen by this arrangement of parts that the bevelling fence can be adjusted at any desired angle. E is a cross-bar fastened to the upper part of the fence, as seen in the drawings, to which are hinged two arms F F, which are also hinged at their lower ends to a movable guide-bar, G, to which is fastened the piece H having curved slots, in which set-screws I I work, the latter being attached to the hinged arms F F. The board to be bevelled has its upper edge placed against the lower guide bar G, which can be moved along the bevelling fence B, to cut the board at any desired width, the guide-bar always moving in such a manner as to occupy a position parallel to its former one. This machine is fastened to the saw-table by thumb-screws working in slots in the arms A A of the fence, as in the ordinary square fence. When it is desired to cut two boards of different widths with a bevel, their upper edges are placed against the guide-bar G, the bevelling fence is set at the desired angle, and the saw is brought to operate upon them, when the board will be cut off with the same bevel, and two unequal widths of offal will result. When it is desired to bevel a tapering piece, the guide-bar G is placed on the slide-board, and when one edge is bevelled the piece is turned around, and the opposite edge is bevelled if desired.

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

1. I claim the bevelling fence B, hinged to the arms A A, and adjustable to cut a bevel at any desired angle, substantially in the manner and for the purpose set forth.

2. And in combination with the above, I claim the guide-bar G, and piece H, having curved slots, set-screws I I, and hinged arms F F, connected with the cross-bar E, substantially in the manner and for the purpose set forth.

3. I claim the hinged bevelling fence B, provided at its back edge with the hinged slotted cross-bar C, in combination with the hinged uprights D D to adjust said fence to any desired angle, substantially in the manner and for the purpose set forth.

To the above specification of an improved bevelling machine I have signed my hand this fifth day of July, 1866.

JOHN D. RILEY.

Witnesses:

PHILIP HIRD,

J. C. WACHS.