

L. SAWYER.
SAW BENCH GAGE.

No. 172,279.

Patented Jan. 18, 1876.

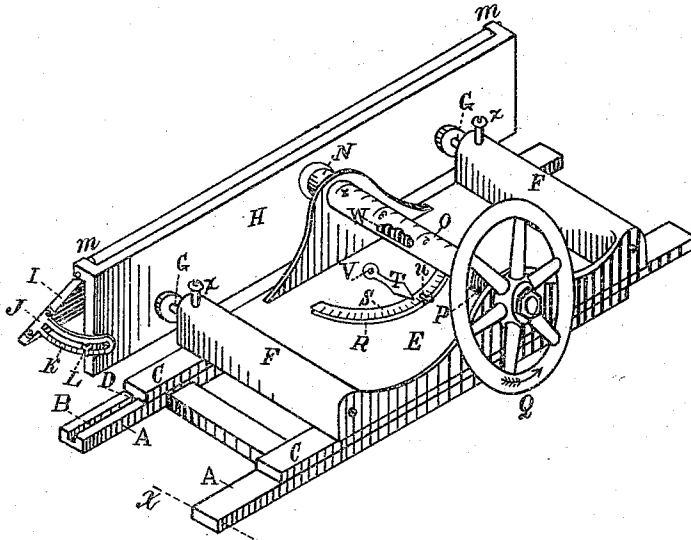


Fig. 1.

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UNITED STATES PATENT OFFICE.

LUKE SAWYER, OF STERLING, MASSACHUSETTS.

IMPROVEMENT IN SAW-BENCH GAGES.

Specification forming part of Letters Patent No. **172,279**, dated January 18, 1876; application filed April 23, 1875.

To all whom it may concern:

Be it known that I, LUKE SAWYER, of Sterling, in the county of Worcester, State of Massachusetts, have invented a certain new and useful Improvement in Saw-Bench Gages, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which my invention appertains to make and use the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view.

My invention relates more especially to that class of gages which are used in combination with circular saws; and consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a simple, cheap, and effective device of this character is produced.

In the drawing, E represents the body of the gage, which is centrally pivoted at V to the frame-work C C, in such a manner as to be easily swiveled or turned laterally. The frame-work C C is provided with the tongue D, working in the groove B in the bed A, to form ways or runlets, by which the body E may be moved back and forth in a proper manner with respect to the saw. Attached to the slide N there is a head-stock, H, provided with the laterally-projecting rods G G, which are fitted to slide in holes formed in the ends F F of the body E; and pivoted at *m m* to the outer side or face of the stock H there is a swinging bevel-plate, I, provided with a curved slotted arm, J, for securing it in any desired position by means of the set-screw L. The

body E is provided with a semicircular slot, R, through which passes the set-screw *u*, one edge of the slot being provided with a scale, S, and index T, the index being fixed to the stud V; on which the body is pivoted.

In the use of my improved gage the head-stock is adjusted by means of the screw-shaft W and wheel Q, and secured in position by the screws *x x*, scale O on the slide N enabling the distance of the stock from the body to be properly determined.

In setting the gage to cut a miter the body E is turned on the pivot V until the finger T indicates the proper position, when it is secured by means of the set-screw *u*.

For cutting miters the plate I may be adjusted in any position by means of the slotted curved arm J and set-screw L, the arm being provided with the scale K to assist in determining the desired angle.

It will be obvious that the gage may be readily adapted for plane-sawing by dropping the plate I and placing the body E on a line or in parallelism with the carriage or frame-work C C, and securing them by means of the set-screws *u* and L.

Having thus explained my invention, what I claim is—

The combination of the carriage C C, body E, index T, head-stock H, shaft W, slide N, plate I, and scales O S, constructed and arranged to operate substantially as and for the purpose specified.

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Witnesses:

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