No. 638,049. Patented Nov. 28, 1899.

J. C. FOX & M. W. MEREDITH.

ADJUSTABLE SAW GUIDE.

(No Model.) (Application filed Aug. 23, 1899.)

Fig. 1.

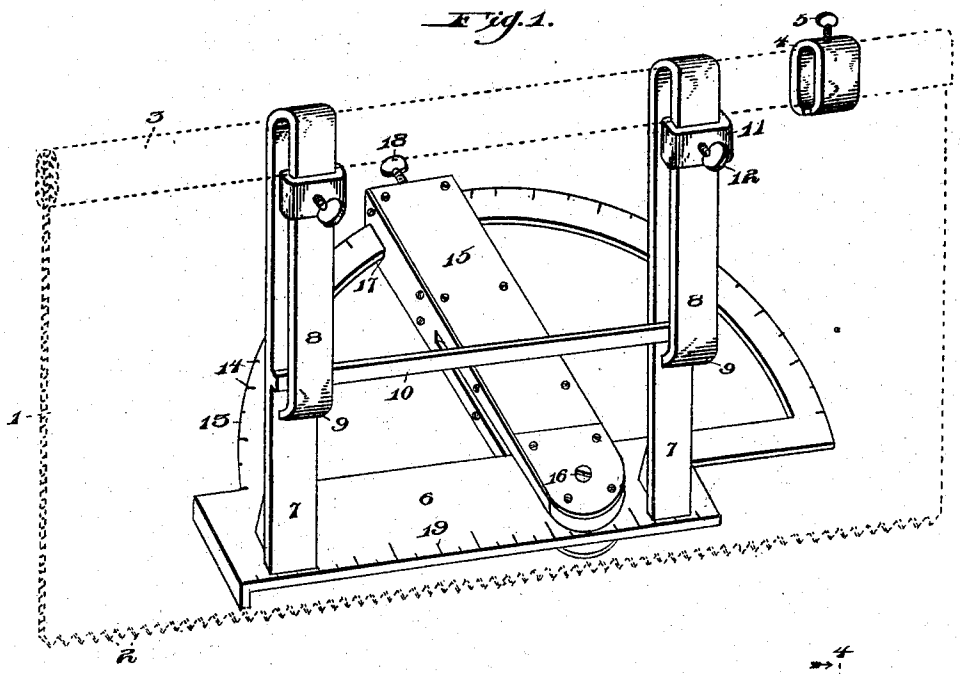


Fig. 2.

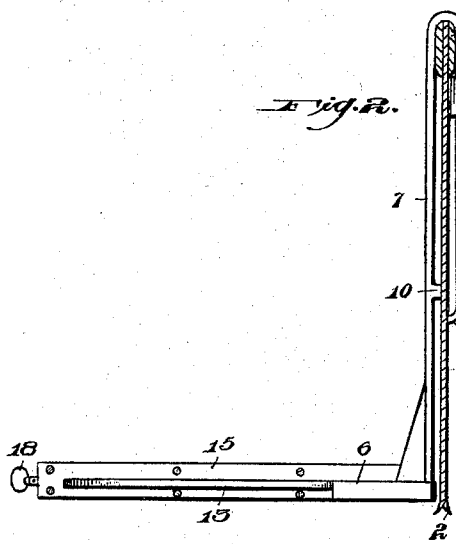


Fig. 3.

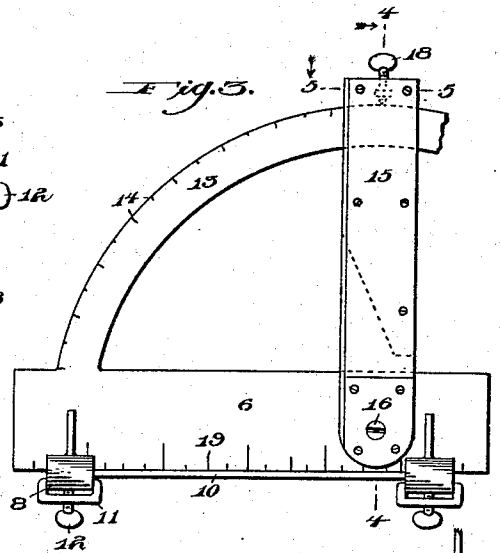


Fig. 4.

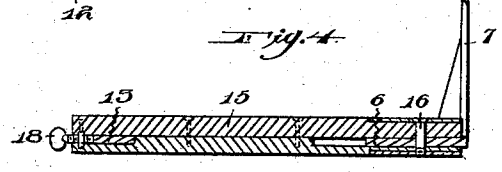
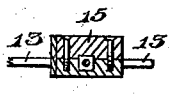


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOHN C. FOX AND MADISON W. MEREDITH, OF ALLEGHENY, PENNSYLVANIA.

ADJUSTABLE SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 638,049, dated November 28, 1899.

Application filed August 23, 1899. Serial No. 728,217. (No model.)

To all whom it may concern:

Be it known that we, JOHN C. FOX and MADISON W. MEREDITH, citizens of the United States of America, residing at Allegheny, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Adjustable Saw-Guides, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in saw-guides, and has for its object the provision of novel means whereby the saw will only be permitted to enter and cut a certain predetermined depth in the wood.

A further object of the invention is to provide novel means which will permit the saw to cut at any desired angle or degree; furthermore, to so arrange the parts that the saw will be held in engagement with the saw-guide and a disengagement therefrom will be prevented.

Another object of the invention is to construct a saw-guide in such a manner that the saw-teeth will always be at a perfect right angle to the board or wood that is to be cut.

A still further object of the invention is to construct a saw-guide that will be extremely simple in its construction, strong, durable, and highly efficient in its operation; furthermore, one that will be comparatively inexpensive to manufacture.

With the above and other objects in view the invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like numerals of reference indicate corresponding parts throughout the several views, and in which—

Figure 1 is a perspective view of our saw-guide, showing a portion of the saw-blade attached thereto, the latter being represented in dotted lines. Fig. 2 is an end elevation of the same. Fig. 3 is a top plan view of the same. Fig. 4 is a longitudinal sectional view taken on the line 4 4 of Fig. 3. Fig. 5 is a horizontal sectional view taken on the line 5 5 of Fig. 3.

Referring to the drawings by reference-numerals, 1 indicates the saw-blade, 2 the saw-teeth, and 3 represents the ridge of the same, upon which is secured a split sleeve 4, said sleeve carrying a thumb-screw 5, which is adapted to engage said ridge 3, and said sleeve serving as a stop to limit the lateral movement of the saw against the guide proper.

The reference-numeral 6 indicates the base-plate, said base-plate having mounted thereon standards 7 7, said standards being bent over upon themselves, forming a downwardly-extending portion 8, the ends of said downwardly-extending portion being bent inwardly, as shown at 9.

The reference-numeral 10 indicates a brace connecting the standards 7 7 and further serving to guide the saw-blade.

The reference-numeral 11 indicates an adjustable sleeve mounted upon the downwardly-extending portion 8, said sleeve being provided with set-screws 12, which serve to engage the downwardly-extending portion 8 and serving to firmly hold in position the said sleeve 11. Extending from the base-plate 6 and formed integral therewith is a segmental arm 13, having arranged thereon graduations 14. A movable arm 15 is pivotally secured to the base-plate 6 at 16, said movable arm being slotted, as at 17, for the reception of the segmental arm 13, a set-screw 18 being arranged in the end of said arm adapted to engage the segmental arm 13 and hold the former in any desired position. A scale 19 is arranged upon the base-plate 6.

The operation of our improved saw-guide is as follows: When it is desired to form a cut a certain predetermined depth, the sleeves 11 are adjusted accordingly, allowing the teeth 2 of the saw to extend below the base-plate 6 a desired distance. The saw is then operated, and when the teeth enter the wood to a point where the upper faces of the sleeves 11 engage the under face of the ridge of the saw the desired depth in the wood will be cut, the sleeve 4 serving to limit the movement of the saw and preventing the disengagement taking place. The brace 10 and the inwardly-

inclined ends 9 of the downwardly-extending portion 8 serve to retain the saw in a perfectly upright position at a right angle to the lumber that is to be cut. When it is desired to cut an angle at a certain degree, the movable arm 15 is adjusted upon the segmental arm 13, which will serve as a guide to accurately cut the desired angle.

From the foregoing description and illustration the many advantages afforded by the use of our improved saw-guide will be readily apparent, and a further description of the same is deemed unnecessary.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of our invention.

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

1. In a saw-guide, the combination of a base-plate, standards mounted upon said base-plate, said standards being bent upon themselves, adjustable sleeves mounted on said bent-over portions, and a brace connecting the said standards, substantially as set forth and described.

2. In a saw-guide, the combination of a base-plate, standards secured to said base-plate, said standards being bent over upon themselves and forming downwardly-extending portions, adjustable sleeves mounted upon said downwardly-extending portions, a segmental arm secured to said base-plate, and a movable arm pivotally secured to said base-plate and engaging with the said segmental arm, substantially as described, and for the purpose set forth.

3. In a saw-guide, the combination of a base-plate, standards secured to said base-plate, said standards being bent over upon themselves forming downwardly-extending portions, adjustable sleeves arranged on said downwardly-extending portions, a segmental arm rigidly secured to said base-plate, a movable arm pivotally attached to said base-plate and engaging with said segmental arm, a saw-blade, a ridge formed on said saw-blade, and an adjustable split collar arranged on said ridge, substantially as described.

In testimony whereof we affix our signatures in the presence of two witnesses.

JOHN C. FOX.
MADISON W. MEREDITH.

Witnesses:
JOHN NOLAND,
E. W. ARTHUR.