

No. 638,049.

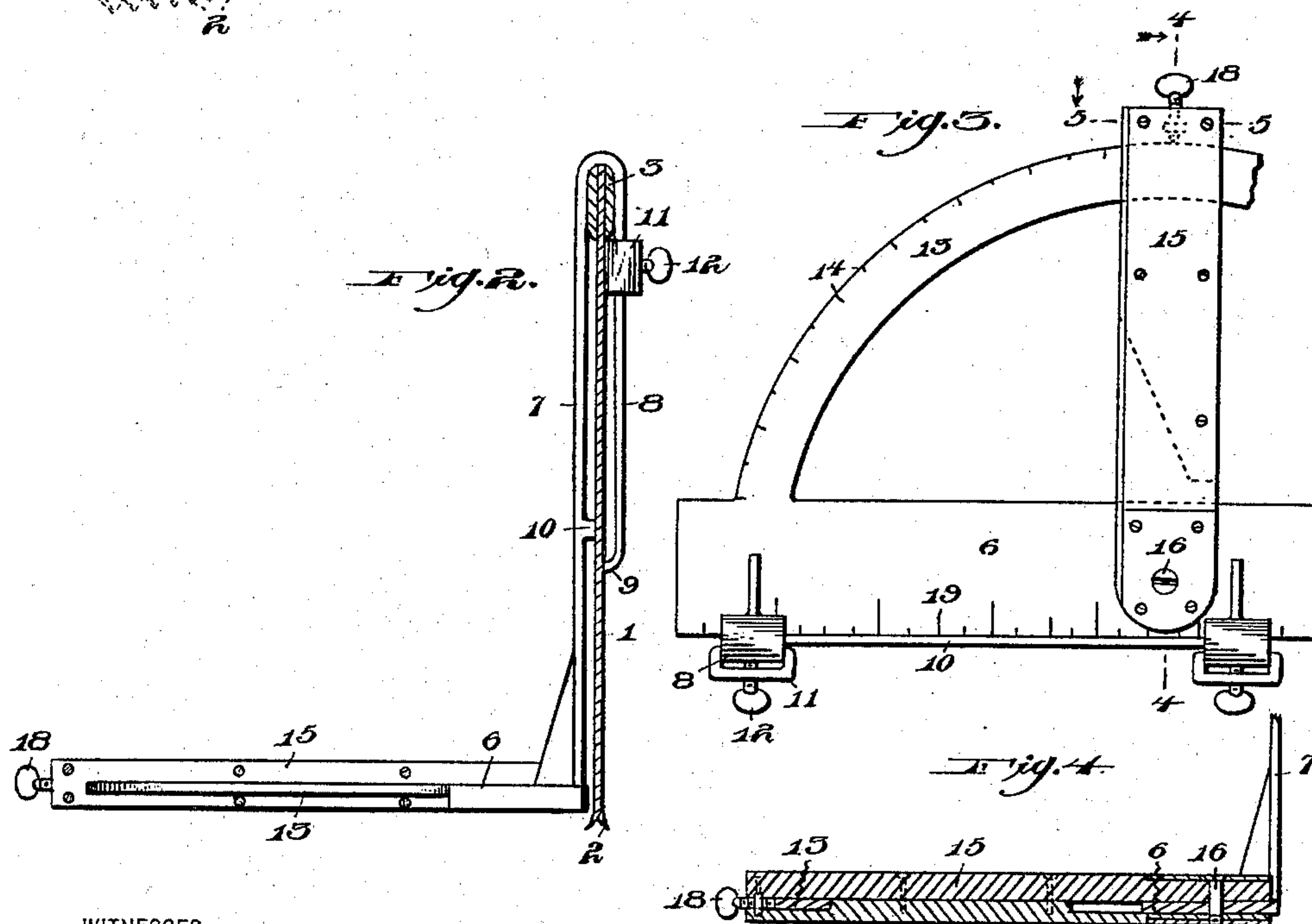
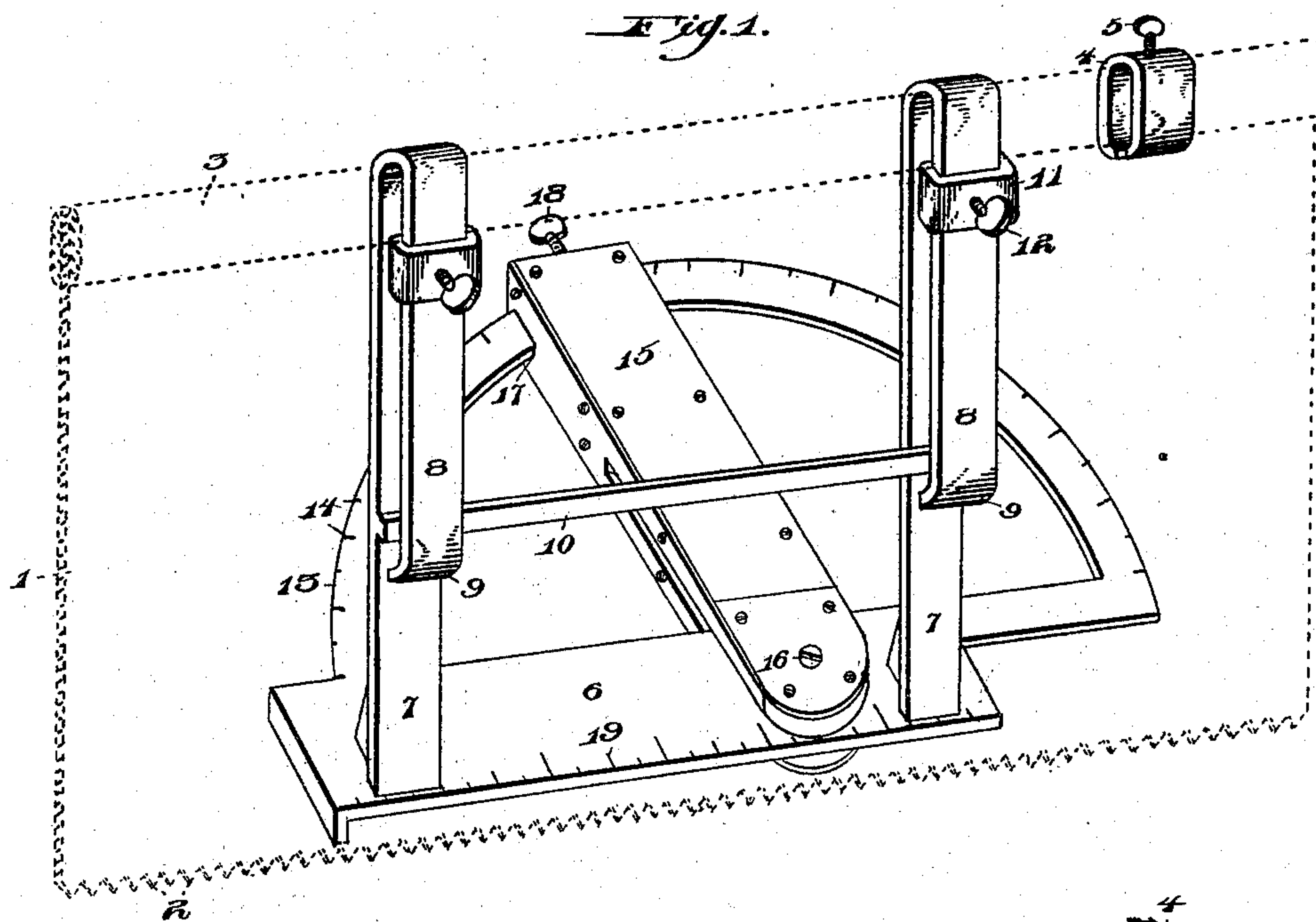
Patented Nov. 28, 1899.

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

ADJUSTABLE SAW GUIDE.

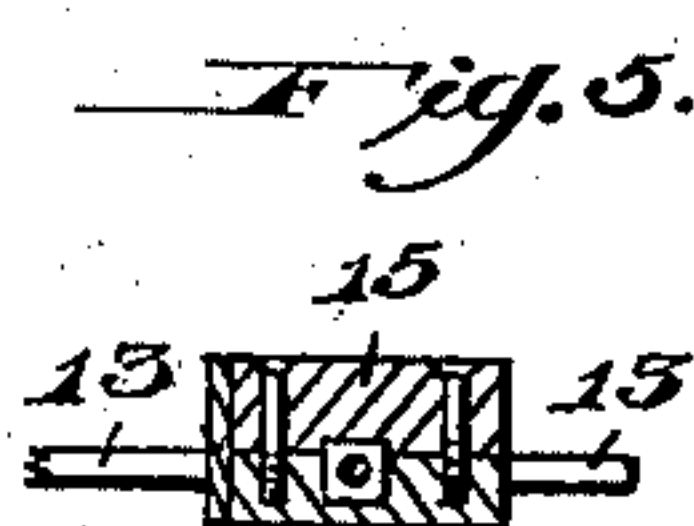
(Application filed Aug. 23, 1899.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN C. FOX AND MADISON W. MEREDITH, OF ALLEGHENY, PENN-
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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 Penn-
sylvania, have invented certain new and use-
ful Improvements in Adjustable Saw-Guides,
of which the following is a specification, ref-
erence being had therein to the accompany-
ing 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 pro-
vide novel means which will permit the saw
to cut at any desired angle or degree; fur-
thermore, to so arrange the parts that the saw
will be held in engagement with the saw-guide
and a disengagement therefrom will be pre-
vented.

Another object of the invention is to con-
struct 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; further-
more, one that will be comparatively inex-
pensive 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 de-
scribed, and specifically pointed out in the
claims.

In describing the invention in detail refer-
ence is had to the accompanying drawings,
forming a part of this specification, wherein
like numerals of reference indicate corre-
sponding 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 at-
tached 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-nu-
merals, 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 move-
ment of the saw against the guide proper.

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

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

The reference-numeral 11 indicates an ad-
justable sleeve mounted upon the down-
wardly-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 oper-
ated, 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 tak-
ing 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
5 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
15 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
20 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
25 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
30 themselves and forming downwardly-extending portions, adjustable sleeves mounted upon said downwardly-extending portions, a segmental arm secured to said base-plate, and a
35 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-
40 plate, said standards being bent over upon themselves forming downwardly-extending portions, adjustable sleeves arranged on said downwardly-extending portions, a segmental
45 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
50 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.