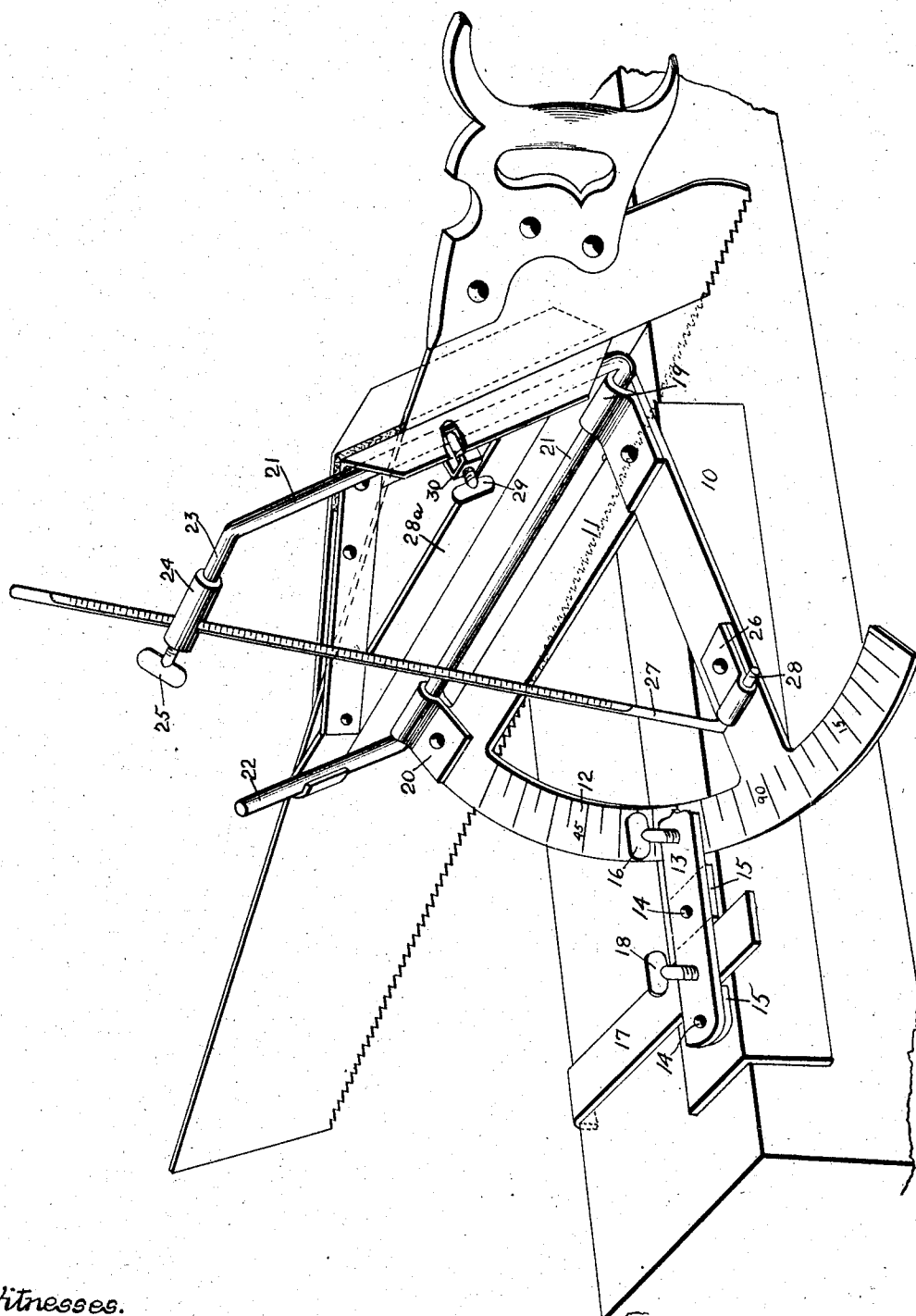


No. 780,657.

PATENTED JAN. 24, 1905.

G. L. HOLT.
MITERING IMPLEMENT.
APPLICATION FILED MAR. 14, 1904.



Witnesses.
K. K. Keffer.
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UNITED STATES PATENT OFFICE.

GEORGE L. HOLT, OF DES MOINES, IOWA.

MITERING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 780,657, dated January 24, 1905.

Application filed March 14, 1904. Serial No. 197,929.

To all whom it may concern:

Be it known that I, GEORGE L. HOLT, a citizen of the United States, residing at Des Moines, in the county of Polk and State of Iowa, have invented certain new and useful Improvements in Mitering Implements, of which the following is a specification.

The object of my invention is to provide a device of this class of simple, durable, and inexpensive construction that may be contained in a comparatively small space and easily carried and that may be quickly and easily applied to an object to be sawed and so arranged that the operator may quickly and easily set the device to guide a saw at any desired angle approaching a vertical line and also at any desired angle approaching a line at right angles to the longitudinal axis of the object.

My invention consists in certain details in the construction, arrangement, and combination of the various parts of the device whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claim, and illustrated in the accompanying drawing, in which—

The accompanying drawing shows a perspective view of the device applied to an object to be sawed and showing the saw in position thereon.

Referring to the accompanying drawing, I have used the reference-numeral 10 to indicate the base of the device, preferably composed of an angle-bar designed to be set against the top and side edge of an object to be sawed. Pivoted to one end of the base 10 is a frame 11, having a segmental bar 12 connected therewith. This segmental bar is provided with a scale, and it moves back and forth over the central portion of the base 10. I have provided means for clamping the frame 11 in various positions, as follows: The numeral 13 indicates a plate connected with the top of the base 10 by the rivets 14 and spaced apart from said base by the blocks 15, and seated in the plate 13 is the set-screw 16, designed to engage the segmental bar 12 of the frame 11. The said scale is so arranged that the operator may see at a glance the exact angle which the frame 11 assumes relative to the object to be sawed. I have also provided

means by which the base may be detachably secured to the object to be sawed, as follows: The numeral 17 indicates an arm having one end inclined downwardly and the other end projected through between the base 10 and the plate 13. A set-screw 18 is seated in the plate 13 to engage the arm 17.

On one end of the frame 11 I have provided the two bearings 19 and 20, in which I have mounted a round rod 21. One end of the rod is projected at right angles to the rod to form the upright 21, and the other end is projected in the same direction and forms the upright 22. On the end of the upright 21 is an inwardly-projecting portion 23, provided with a sleeve 24, having a transverse opening, and seated in the opposite end of the sleeve 24 is a set-screw 25.

The numeral 26 indicates a bearing on the frame 11 near the segment 12.

A rod 27 is provided with a right-angled extension 28 on its lower end, which extension is mounted in the bearing 26. The said rod 27 is provided with a scale at one side and is projected through the opening in the sleeve 24 to be engaged by a set-screw 25.

Slidably mounted upon the uprights 21 and 22 is a saw-guide frame 28^a, which frame is adjustably secured to the upright 21. The said saw-guide frame is provided with a slot designed to receive a saw and to act as a guide to prevent the saw from moving in other than a straight line through the guide.

In practical use the operator places the base 10 against the top and front face of the object to be sawed. If it is desired to secure the base to the object, he then adjusts the arm 17 so as to engage the side of the object opposite from the base 10, and then by a manipulation of the set-screw 18 the base is clamped to the object. If it is desired to produce a cut across the object at an angle of forty-five degrees, then the frame 11 is adjusted until the proper scale-mark on the segment 12 is moved to position under the plate 13. Then the set-screw 16 is manipulated to firmly clamp the frame 11. Assuming that it is desired further to cut downwardly through the object at an angle of about eighty degrees, then the upright 21 is

moved until it is adjacent to the proper scale-
mark upon the rod 27, whereupon it is clamped
in position by the set-screw 25. Then the saw
may be inserted in the saw-guide, and as the
5 saw can move only in a straight line the ob-
ject will be cut off at the desired angle. The
saw-guide frame will be moved up and down
on the uprights 21 and 22 to accommodate
saws of different sizes and, if required, to
10 place a saw in proper position relative to the
object to be sawed.

When the device is not in use, the set-screw
25 may be loosened, and by tilting the upright
21 outwardly away from the base portion of
15 the frame the rod 27 will be withdrawn from
the sleeve 24, and the saw-guide may be laid
out flat and will occupy a minimum of space.

Having thus described my invention, what
I claim, and desire to secure by Letters Pat-
20 ent of the United States therefor, is—

The combination of a base formed of a
straight angle-bar, a frame pivoted near one
end of said base, a segmental scale-bar con-
nected with the frame and moving over the
base, means for clamping it to the base, a rod 25
having upturned ends pivoted to the frame
one of said ends projected parallel with the
body portion of the rod, a sleeve on said end,
a scale-rod having its lower end pivoted to
the frame near the segmental scale-bar and 30
having its upper end adjustably clamped in
said sleeve, a saw-guide frame slidably mount-
ed on said upturned ends, and means carried
by the saw-guide frame for adjustably clamp-
ing it to one of said upturned ends.

GEORGE L. HOLT.

Witnesses:

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