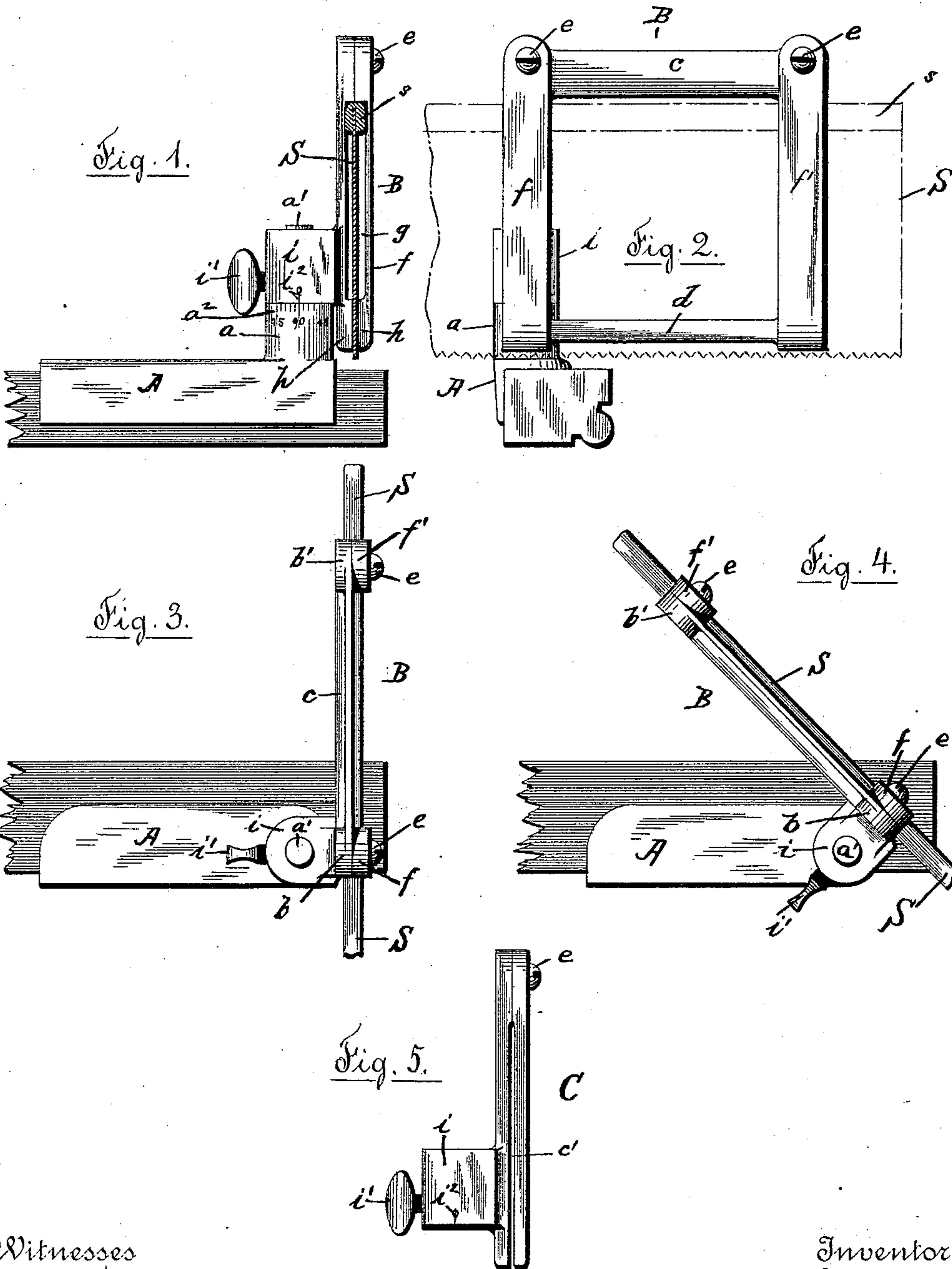


(No Model.)

A. GOULDING
SAW GUIDE.

No. 405,210.

Patented June 11, 1889.



Witnesses
Chas. F. Schmelz
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UNITED STATES PATENT OFFICE.

ALFRED GOULDING, OF WORCESTER, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO GEORGE C. TAFT, OF SAME PLACE.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 405,210, dated June 11, 1889.

Application filed October 4, 1888. Serial No. 287,201. (No model.)

To all whom it may concern:

Be it known that I, ALFRED GOULDING, a citizen of the United States, and a resident of the city of Worcester, in the county of Worcester and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Saw-Guides, of which the following, in connection with the accompanying drawings, is a specification sufficiently clear and descriptive to enable those skilled in the art to which my invention belongs to make and use the same.

My invention relates to saw-guides such as are mainly used for the purpose of mitering and matching boards or moldings; and it consists in the improved arrangement and combination of a bed-plate to be held against the work with the guide-piece proper adapted to be set at any desired angle accurately in order to facilitate the easy and quick adjustment for sawing at any desired angle.

In the drawings, Figure 1 is a front view of my improved device. Fig. 2 is a side view of the same. Fig. 3 represents a plan view showing the guide-plate at right angles with the bed-piece. Fig. 4 is a view similar to Fig. 3, showing the guide-plate set at an angle such as would be used for mitering; and Fig. 5 shows a modification of the guide-plate to be used in connection with the bed-piece.

In the drawings, A represents the bed-piece, having a depending flange forming two sides, which bear against the work, and having at one end the lug *a*, which carries at its upper end the pin *a'*, serving as a pivot for the saw-supporting frame B.

The saw-frame B consists, essentially, of two plates *b b'*, connected at their upper ends by the tie *c* and near their lower ends by the tie *d*. To the plates *b b'* are secured, by means of the screw *e*, the secondary plates *f f'*, formed as counterparts to the plates *b b'*, and leaving an opening *g* for almost the whole length between them to allow the back *s* of the back-saw *S* to slide up and down, while at their lower ends they are formed with projections *h h* to prevent the saw-blade from loose play, thereby confining the same to its course. The plate *b* is provided with a lug or hub *i*, adapted to turn

on the pin *a'* of the lug *a*, as previously described, and to be secured in position by means of the thumb or set screw *i'*.

Referring to Fig. 1, it will be seen that on the lug *a*, I provide the angle-marks *a²*, and that the lug *i* has a pointer-mark *i²* to register with the angle-marks *a²*. It will thus be understood that by turning the guide-piece B on the pin *a'* any desired angle of saw and work may be obtained, and by tightening the thumb-screw *i'* the guide B will retain its position, so that the whole device can be moved onto another piece of work to be sawed, thus making the cut of a uniform angle.

If it is desired to use a panel-saw instead of a back-saw, which is ordinarily used in mitering, the frame B is replaced by frame C, as shown in Fig. 5, where the slot *c'* is of uniform width, so as to give the saw-blade a bearing on four extreme points vertically for the full length of its upward and downward movement.

The device is especially useful, and will be appreciated by those skilled in the art on account of its simplicity and adjustability, whereby any desired angle of cut may be obtained, and, furthermore, because it would take the place of the miter-box, which necessarily is bulky and difficult to handle, while my new device is put against the work and held there by hand during the process of sawing.

What I claim as new and as my invention, and desire to secure by Letters Patent, is—

In a saw-guide, the combination of a bed-plate having a depending flange with a lug and pin at one end, on which the saw-supporting frame is hinged, said supporting-frame consisting of the plates *b b'* and plates *f f'*, the plate *b* provided with a hub adapted to turn on the pin *a'*, the lug and hub provided, one with angle-marks and the other with a pointer to register with the angle-marks, and secured by a thumb-screw in the position desired, substantially as shown and described, and for the purpose set forth.

ALFRED GOULDING.

Witnesses:

JONA. LUTHER,

JOSEPH P. YOUNG.