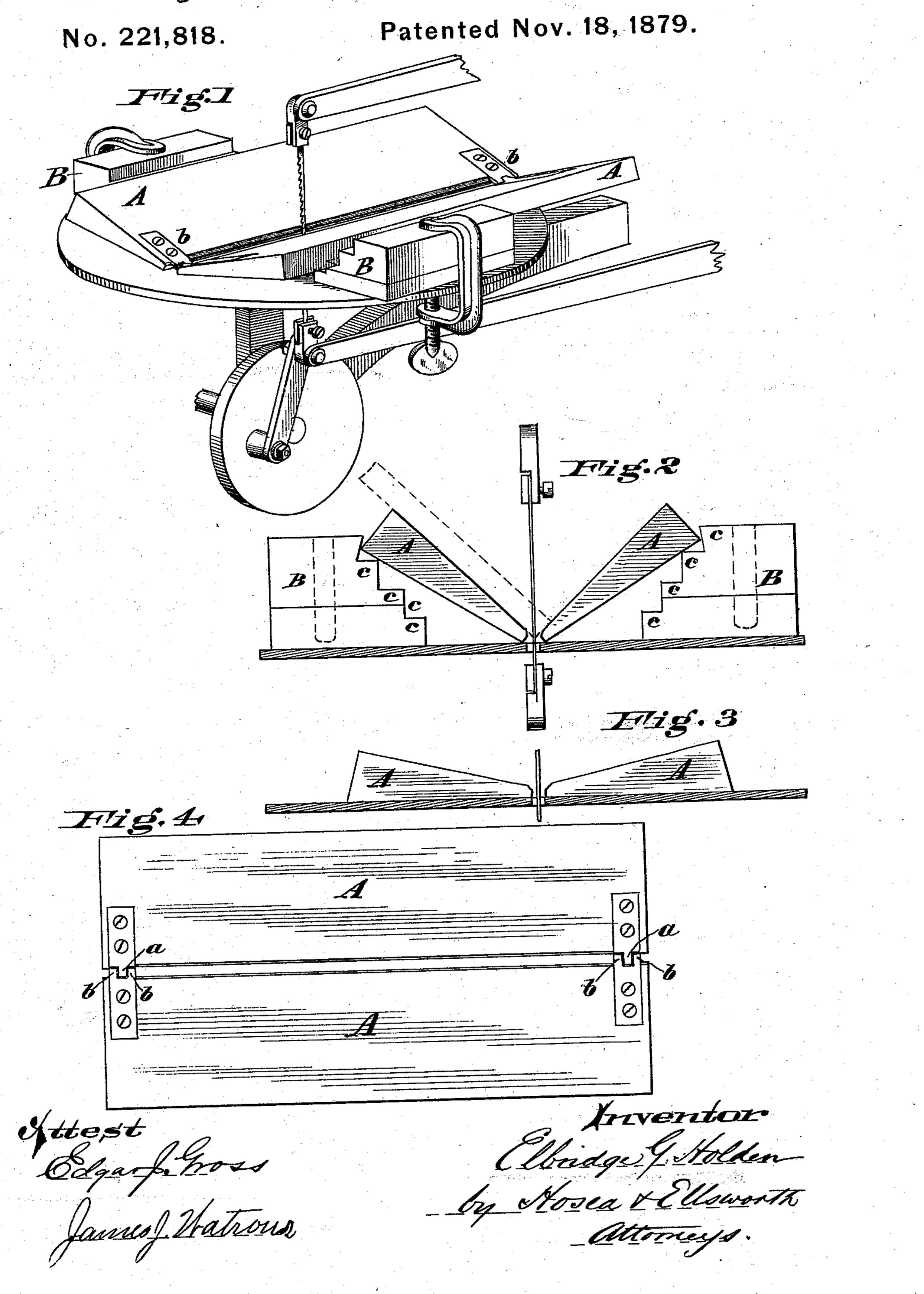
E. G. HOLDEN.
Mitering Attachment for Sawing-Machines.



UNITED STATES PATENT OFFICE

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IMPROVEMENT IN MITERING ATTACHMENTS FOR SAWING-MACHINES.

Specification forming part of Letters Patent No. 221,818, dated November 18, 1879; application filed March 31, 1879.

To all whom it may concern:

Be it known that I, Elbridge G. Holden, of Philadelphia, Pennsylvania, have invented a new and useful Improvement in Mitering Attachments for Scroll-Sawing Machines, of which the following is a full, true, and exact description, reference being had to the accompanying drawings annexed hereto, and forming part of this specification.

The object of my invention is to provide a mitering attachment for scroll-sawing machines which may be easily attached to or detached from the saw-table, and which shall enable the operator to cut the edges of work to any desired angle, for the purpose of constructing boxes, brackets, and similar work to any desired form.

To this end it consists in two guides, which may be stationary or movable, forming, when placed in position together, a trough, through which the saw operates and the work is fed to the saw, and two adjustable side supports, by which the guides are supported at any desired angle in relation to each other.

In the drawings herewith, Figure 1 is a perspective view of the saw-table with my invention applied thereto. Fig. 2 is a front sectional elevation of the same. Fig. 3 is a front sectional elevation of the saw-table with the guides in position, with the supporting-blocks removed. Fig. 4 is a plan view of the guides and connections forming the trough.

A A are two strips or guides, preferably of wood, rounded at their corresponding narrow edges, and provided at each end with suitable catches a b, preferably of metal, by which the strips are held sufficiently apart to allow the saw to operate between them at any desired angle to which they may be set, as hereinafter indicated.

The guides may be wedge-shaped, so that when placed flat upon the table their upper surfaces incline toward each other at a shallow angle, thus serving for certain classes of work without the additional supports. The catch devices shown consist of two projecting tongues, a, secured to one of said guides, and two double tongues, b, in corresponding positions upon the other guide, into which the tongues a engage and prevent longitudinal displacement of the guides.

For the purpose of supporting the guides A at any desired angle in relation to each other, I employ two side blocks, B, with corresponding sides, formed into steps c, of uniform height. The side blocks may be constructed in two or more detachable parts, so as to be built up to any desired height. The wedges or guides A being allowed to rest with their lower edges upon the table on either side of the saw, their upper edges supported upon either of the steps c of the supporting-blocks B, according to the angle desired.

The blocks B are clamped to the saw-table, and thus the parts are securely adjusted; and being so adjusted and secured, the work is fed through the trough to the saw, or the guide-trough is fed along upon its supporting-

blocks with the work.

I prefer to have the steps c of such dimensions that, as the guiding-plates are raised from one to another, definite angles of cut will be produced.

As a modification in the mode of adjusting the guide-plates A, curved guides may be provided with a suitable slot for the passage of set-screws, by which the plates may be held at any desired angle.

Having described my invention, what I claim, and desire to secure by Letters Patent,

1. A removable miter-trough for scroll-sawing machines, consisting of two guide-plates, A, upon opposite sides of the saw, adjustable to any desired angle, by means substantially as described, for the purpose specified.

2. In combination with the guide-plates A, forming a miter-trough for scroll-sawing machines, the adjustable side supports, B, substantially as described, for the purpose speci-

fied.

3. In combination with the table of scrollsawing machines, the trough composed of guide-plates A, supported at the desired angle upon the stepped supports B, substantially as described, for the purpose specified.

In testimony whereof I have hereunto set my hand.

ELBRIDGE G. HOLDEN.

Witnesses:

L. M. Hosea,

E. A. ELLSWORTH.