

J. W. SAYRE.
SLATE-FRAME.

No. 180,070.

Patented July 18, 1876

Fig. 1.

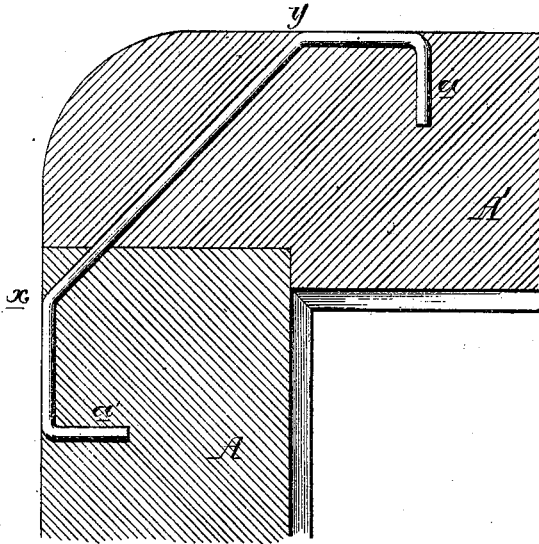
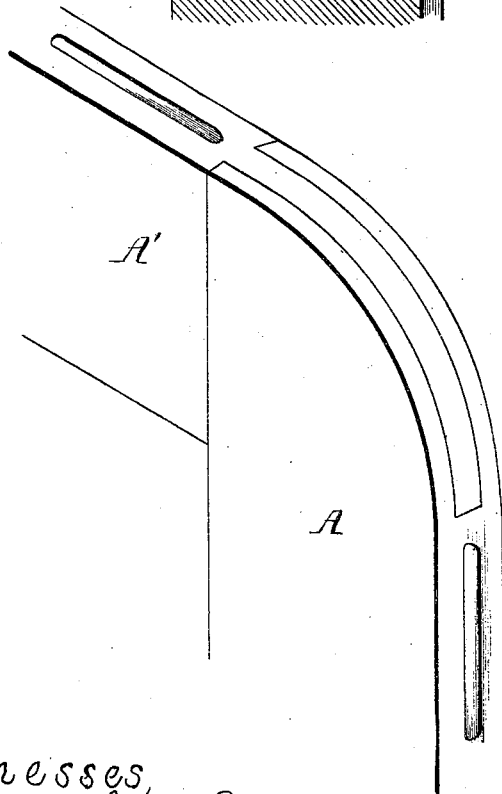


Fig. 2.



*Witnesses,
Harry Lawson Jr.
Harry Smith*

*John W. Sayre
by his Attorneys
Howson and Son*

UNITED STATES PATENT OFFICE.

JOHN W. SAYRE, OF MARTIN'S CREEK, PENNSYLVANIA.

IMPROVEMENT IN SLATE-FRAMES.

Specification forming part of Letters Patent No. **180,070**, dated July 18, 1876; application filed December 11, 1875.

To all whom it may concern:

Be it known that I, JOHN W. SAYRE, of Martin's Creek, Northampton county, Pennsylvania, have invented an Improvement in Slate-Frame Corners, of which the following is a specification:

The object of my invention is to so secure the frames of school-slates together at the corners as to insure additional strength; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 is a sectional view, and Fig. 2 a perspective view, of a corner of a slate-frame strengthened according to my invention.

A and A' are portions of two bars of a slate frame, the former being mortised to receive a tenon on the latter, and the two being glued together, as in ordinary slate-frames. In order to strengthen this joint I use the wire shown in the drawing, the straight central portion of this wire from *x* to *y* passing diagonally through a hole made in the corner of the frame.

At the point *y* the wire is bent, and from

the bend pursues a straight course in a recess formed in the outer edge of the bar A', into which the bent end *a* of the wire is driven, as shown. In like manner the wire from its bent end *x* is adapted to a groove in the edge of the bar A, and its bent end *a'* driven into the same, the wire being thus in the best position for resisting any tendency of the bars to part at the joint, and the wire being so bent that it cannot be displaced by any ordinary strains to which the frame may be subjected.

I claim as my invention—

The within-described slate-frame fastening, consisting of a wire passed diagonally through the corner of a frame, and having its ends bent inward and sunk into the adjoining bars, all substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN W. SAYRE.

Witnesses:

JOHN J. MILLER,
R. C. MERRILL.