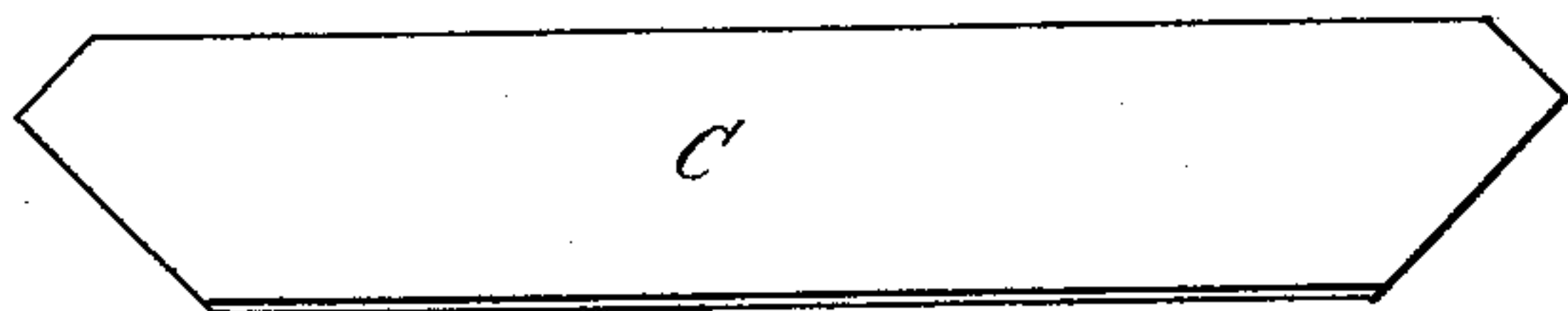
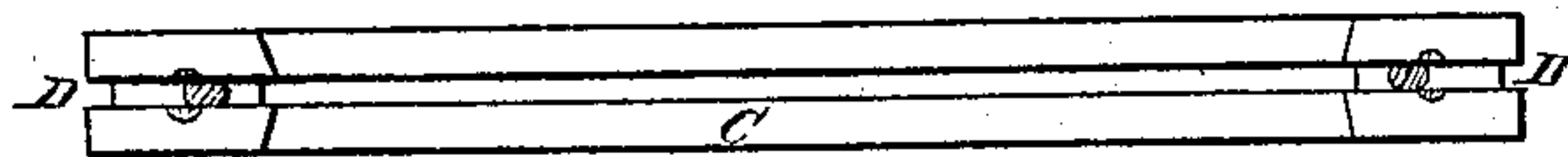


# *F. Shenton, Slate Frame.*

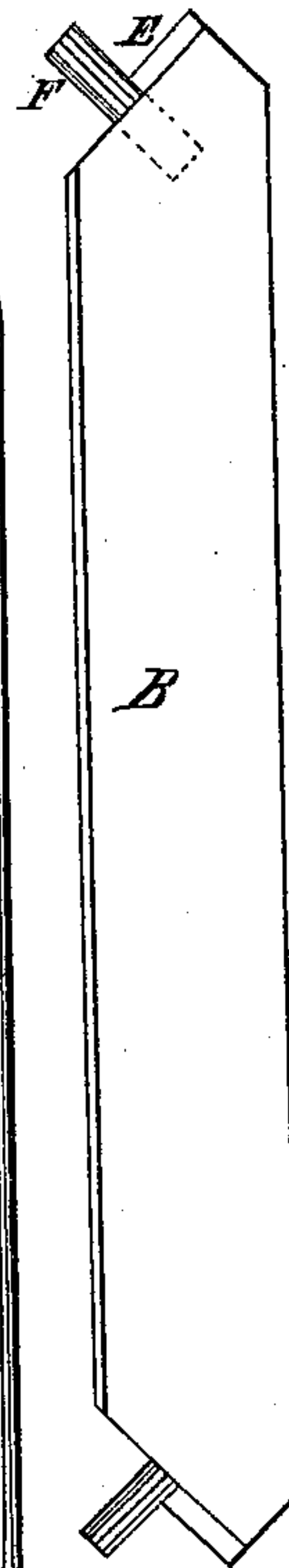
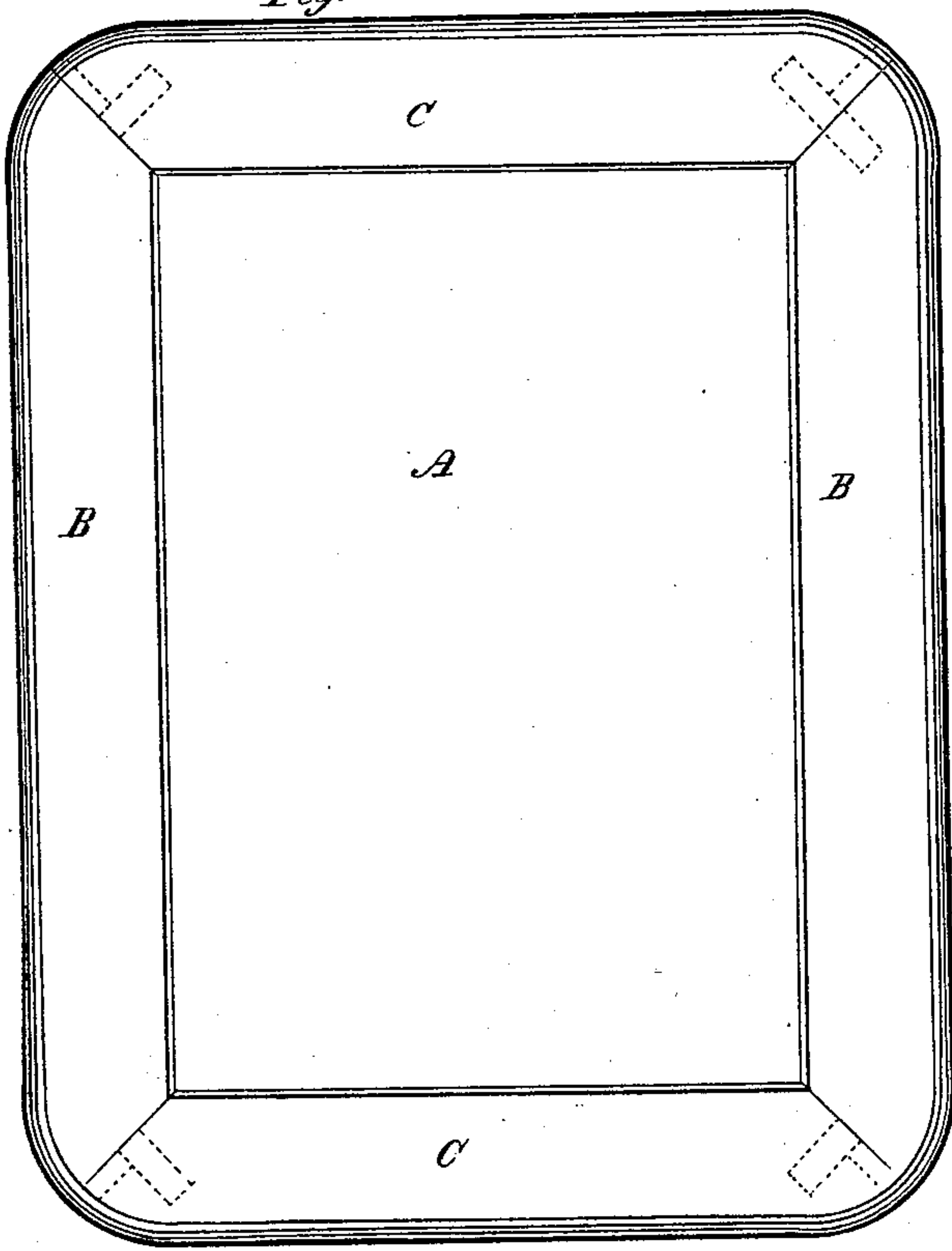
*N<sup>o</sup> 53495.*

*Patented Mar. 27, 1866.*



*Fig. 2.*

*Fig. 1.*



*Witnesses.*

*F. L. Ehnemann  
Chas. Haddaway*

*Inventor.*

*Francis Shenton  
By his Atty J. Dennis*

# UNITED STATES PATENT OFFICE.

FRANCIS SHENTON, OF SLATINGTON, PENNSYLVANIA.

## IMPROVEMENT IN SLATE-FRAMES.

Specification forming part of Letters Patent No. 53,495, dated March 27, 1866.

*To all whom it may concern:*

Be it known that I, FRANCIS SHENTON, of Slatington, Lehigh county, State of Pennsylvania, have invented certain new and useful Improvements in Slate-Frames; and I do hereby declare the following description and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvements without further invention or experiment.

The nature of my invention and improvements consist in uniting or joining the corners of the frame by means of a tongue and groove and a dowel, the whole being firmly glued together.

Figure 1 in the accompanying drawings is an elevation of a slate-frame with my improvements. Fig. 2 shows the several parts of the joint of the frame separately in different positions.

In these drawings, A is a slate, B B the sides, and C C the ends, of the frame, all of which are grooved to receive the edges of the

slate A. The ends of the end bars, C C, are cut to a miter or an angle of forty-five degrees, as shown in the drawings, and then grooved, as shown at D, Fig. 2. The side bars, B B, are also cut to a miter, with a tongue, E, to fit the groove D when the frame is put together. The mitered ends of both the side and end bars are bored for the dowel F, which is fitted to the holes in the bars, so that when the dowel and the ends of the bars are glued and pressed together a strong joint is formed in the frame.

In making these frames, the two joints which are diagonally opposite to each other should be put together last.

My improved joint is very strong and durable, and makes a neat finish when completed.

I claim—

A slate-frame when constructed with a miter-joint, tongue and groove, and secret dowel-pin, substantially as described.

FRANCIS SHENTON.

Witnesses:

HARRISON EVANS,  
L. D. KRAUSE.