

R. S. BARNUM.

HINGED SLATE.

No. 188,840.

Patented March 27, 1877.

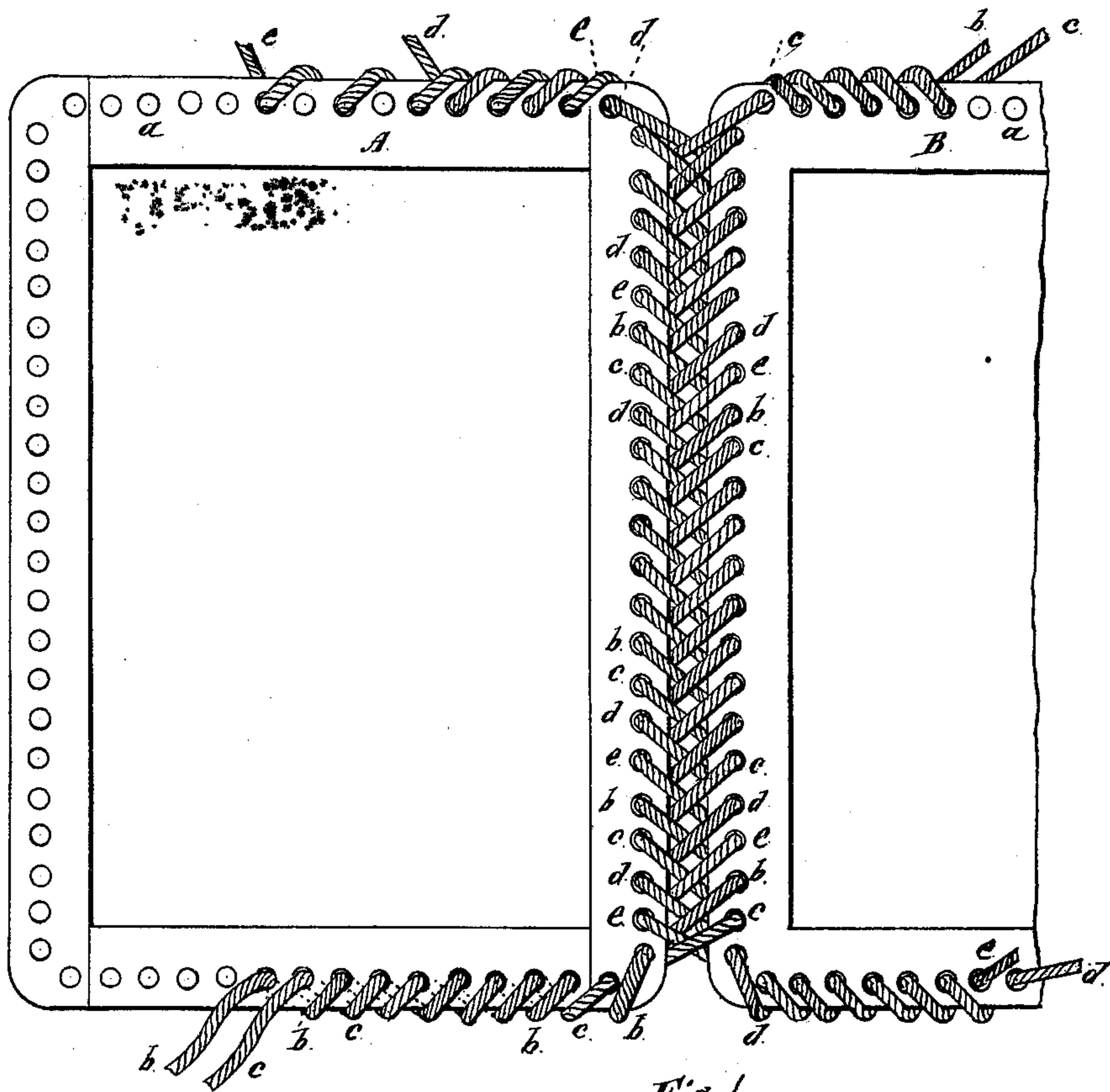


Fig. 1.

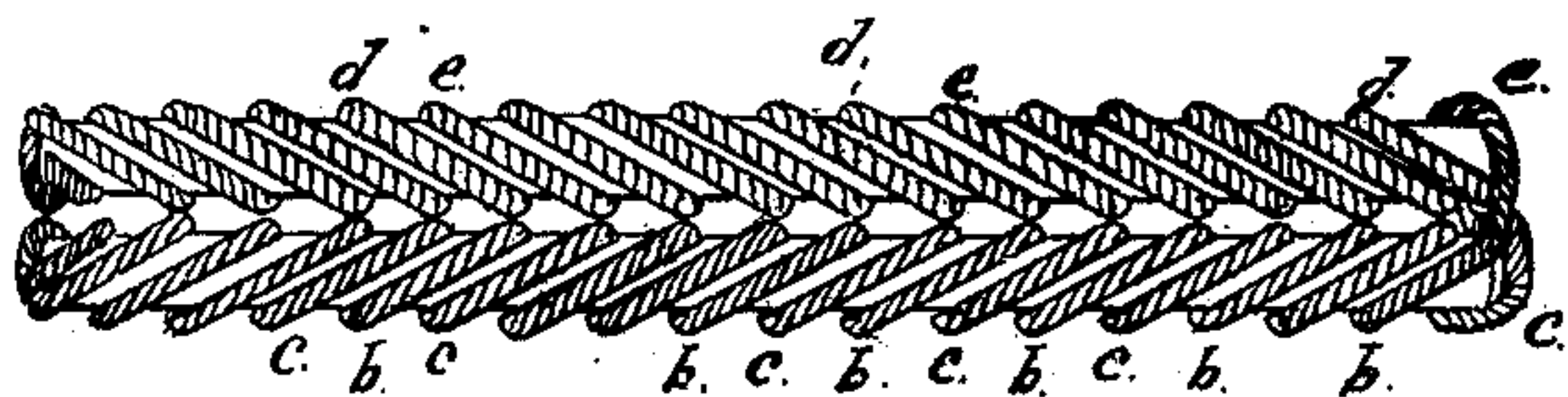


Fig. 2.

Witnesses:  
O. W. Bond  
H. F. Bond.

Inventor:  
Russell S. Barnum

# UNITED STATES PATENT OFFICE.

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RUSSEL S. BARNUM, OF CHICAGO, ILLINOIS, ASSIGNOR TO HARRY C. GOODRICH, OF SAME PLACE.

## IMPROVEMENT IN HINGED SLATES.

Specification forming part of Letters Patent No. **138,840**, dated March 27, 1877; application filed December 26, 1876.

*To all whom it may concern:*

Be it known that I, **RUSSEL S. BARNUM**, of the city of Chicago, Cook county, State of Illinois, have invented a new and useful Improvement in Slates, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view, representing the two slates open; Fig. 2, an end view, showing the two slates closed.

The object of this invention is to provide a double slate, the two slates being hinged together in a simple manner, and so as to permit the folding of the slates in either way; and this I accomplish by interlacing, along the back of the slates, cords which form the muffling material, the joint being formed at the same time that the muffling material is applied.

In the drawings, **A B** represent the frames of two ordinary slates, each provided with a series of holes, *a*, near the outer edge, to receive cords which form the muffling material. In the frame **A** are two cords, *b c*, which are passed through the holes *a*, and wound over the edge of the frame. In the frame **B** are two other cords, *e d*. Along the back of the double slate the two cords *b c* cross over from one frame to the other, and are interlaced with the two cords *e d*, which also, along the back of the two slates, pass over from one slate to the other, as represented in Fig. 1. As shown, the two cords *b c* are carried, at the upper end of the two slates, over into the holes in the frame **B**,

while the other two cords, *e d*, are carried over into the top of the frame **A**. This interlacing of these four cords along the back of the two slates forms a very efficient hinge, which permits the folding of the two slates together either way; and the arrangement of the cords is such that in use they do not, along the back of the slate, rub against each other, so as to wear them away. The ends of the cords are fastened by driving pins into the holes.

In using the slates it is not necessary to open them in order to get the writing or figures where the same can be protected. The slates can be closed together, and, having been used in that position, can be reversed, bringing the writing or figures upon the inside.

I do not claim a slate-frame rendered noiseless by the use of cords drawn into holes in the edge thereof, this being the invention of Mr. Harry C. Goodrich; but

What I do claim as new, and desire to secure by Letters Patent, is as follows:

In a double slate, the frames **A B**, provided with muffling-cords so arranged that they cross from one frame to the other at the back, and form a hinge to permit the frames to turn in either way, substantially as described.

RUSSEL S. BARNUM.

Witnesses:

O. W. BOND,  
H. F. BRUNS.