

L. T. SIMON.

BELLOWS FOR CONCERTINAS, REED-ORGANS, &c.

No. 177,890.

Patented May 23, 1876.

Fig. 1.

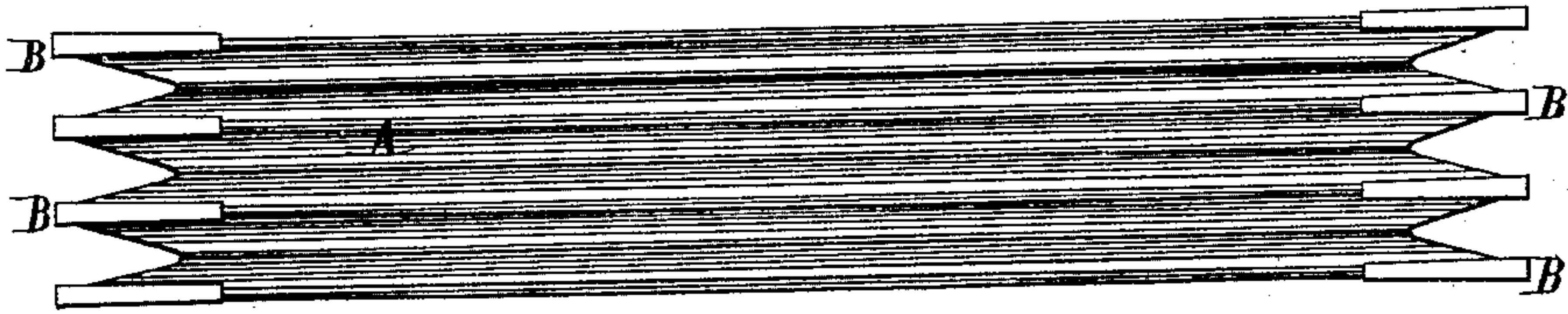


Fig. 2.

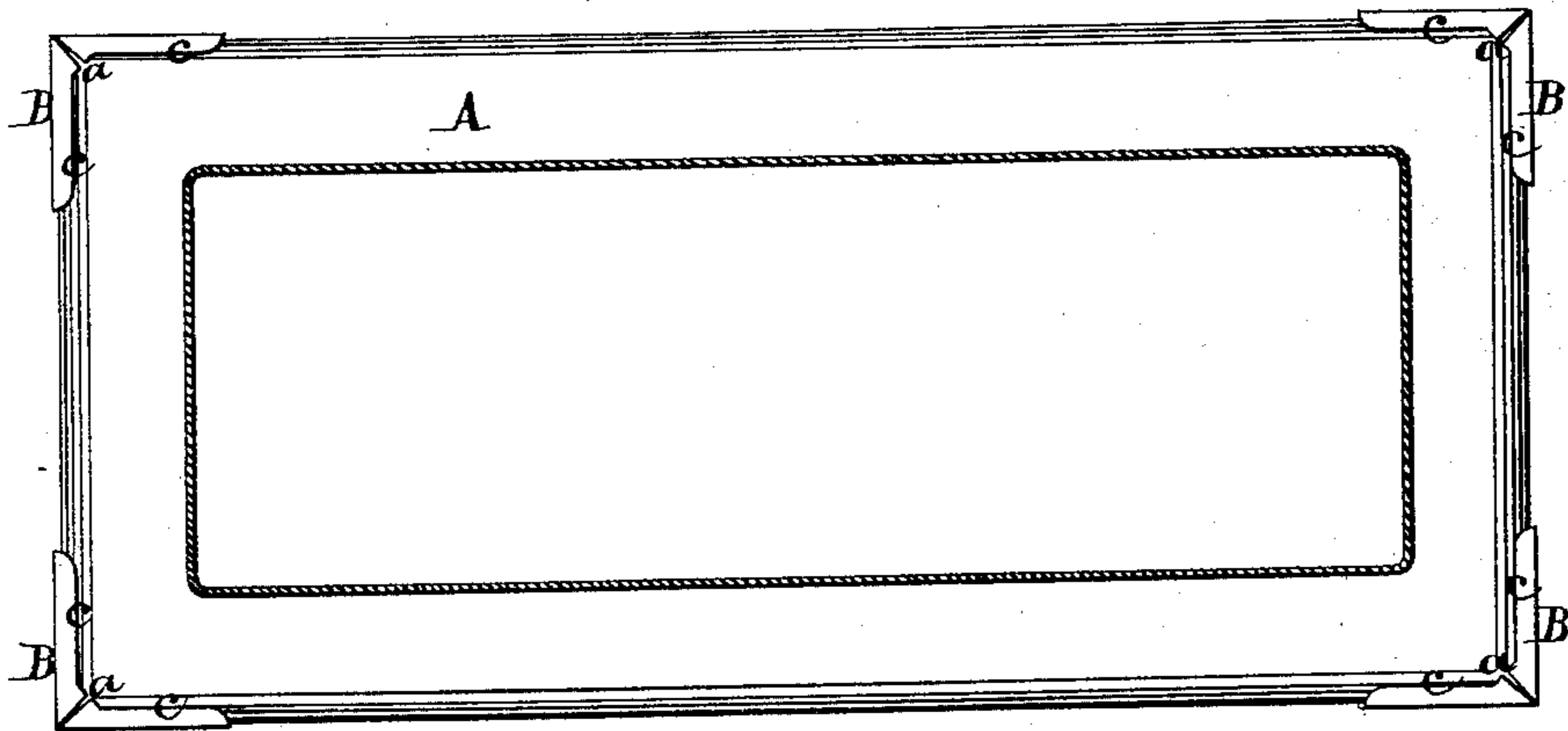


Fig. 3.

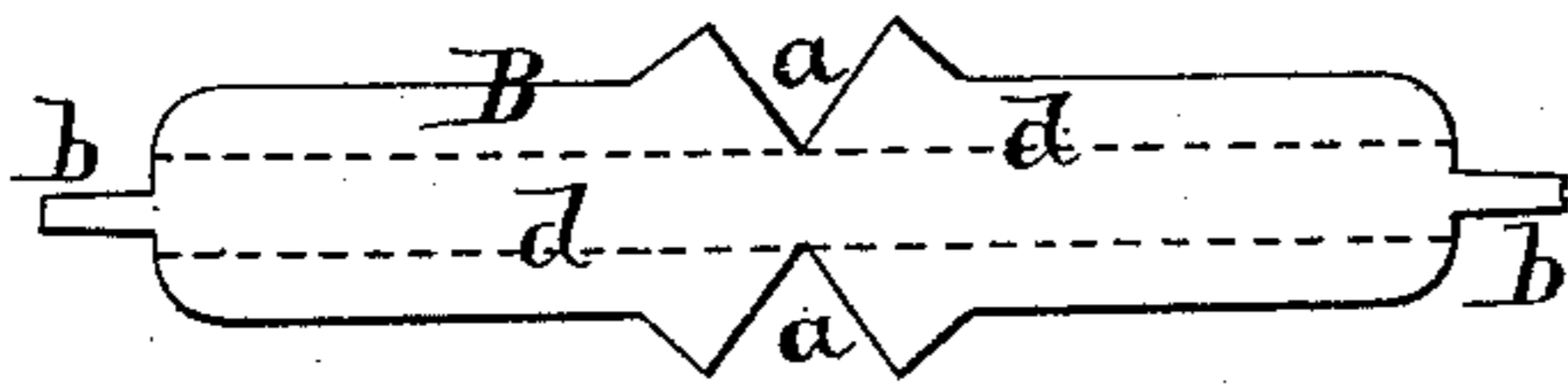


Fig. 4.

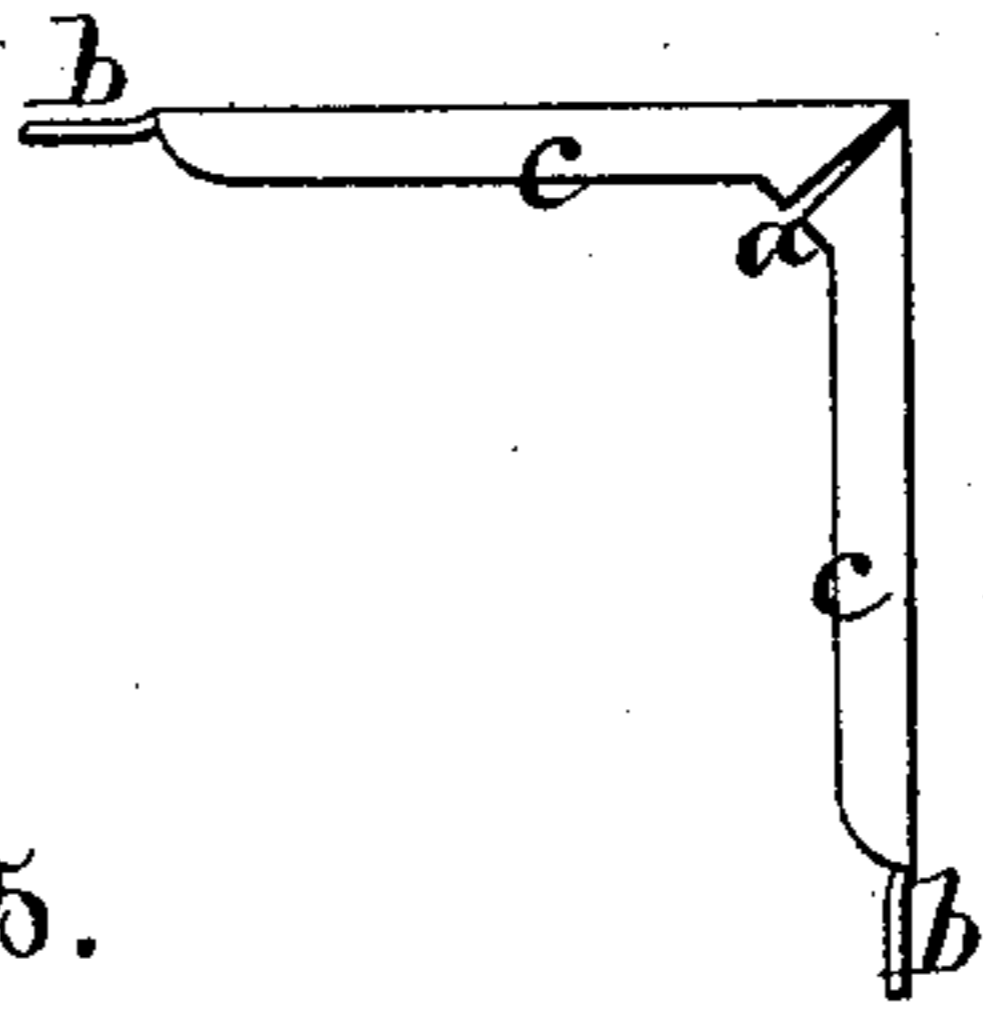


Fig. 5.



Witnesses.

Otto Schupeland.  
Robt. E. Miller.

Inventor.

Louis T. Simon per  
Van Santvoord & Hauff  
Attorneys

# UNITED STATES PATENT OFFICE

LOUIS T. SIMON, OF NEW YORK, N. Y.

## IMPROVEMENT IN BELLOWS FOR CONCERTINAS, REED-ORGANS, &c.

Specification forming part of Letters Patent No. **177,890**, dated May 23, 1876; application filed April 27, 1876.

*To all whom it may concern:*

Be it known that I, LOUIS T. SIMON, of the city, county, and State of New York, have invented a new and useful Improvement in Bellows for Musical Wind-Instruments, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side view of an angular bellows containing my improvement. Fig. 2 is a horizontal section thereof. Fig. 3 shows my binding-strip in blank form. Fig. 4 is a side view thereof when finished. Fig. 5 is a cross-section of the same.

Similar letters indicate corresponding parts.

My improvement is especially adapted to angular bellows for accordions, concertinas, and like musical wind-instruments, but is applicable, also, to bellows for general use. It consists in combining, with an angular bellows, and particularly with its corners, a binding-strip of sheet metal, which is bent at right angles, or nearly so, and provided with lips on its opposite longitudinal edges, and provided, also, with spurs on its opposite ends, so that this strip is adapted to be applied to the corner of a fold in a bellows, when the aforesaid lips overlap the edges of the fold, and the spurs serve to retain the whole firmly in place, the latter being passed through the top or bight of the fold, and being clinched.

In the drawing, the letter A designates an angular bellows of the character generally used in accordions, and which is provided with my improved metal binding. For this binding I make use of a strip, B, of sheet metal of the form shown in Fig. 3, such strip being cut out or stamped on its opposite longitudinal edges, and at or near the middle of its length, in such a manner as to form triangular recesses *a a*, (hereinafter referred to,) and being made with projections or spurs *b b* at its opposite ends. After the strip B has been cut or stamped out to the proper shape,

I bend or turn up its opposite longitudinal edges along the dotted lines *d d*, so as to form lips *c c* thereon, and at the same time bend it flatwise at right angles, or nearly so, as shown in Figs. 2 and 4, the triangular recesses *a a*, before mentioned, permitting of this bending the strip with the lips *c c* formed on it. This last-named operation completes the strip.

In applying the finished strip to the corner of a fold in an angular bellows I so adjust it that the edge of such fold is received between the lips *c c*, or, in other words, so that these lips overlap the edges of the fold, the spurs *b b* being at the same time passed through the top or bight of the fold, and being clinched by any suitable instrument.

It is obvious that by the spurs *b b* my binding-strip is very firmly held in place, while by the application of the strip great strength is given to the bellows.

It is apparent that my invention is applicable to angular bellows for musical instruments of any description, as well as to any other bellows with exposed corners or angles, and, if desired, the binding-strips may be carried all around the folds of the bellows, their ends being united. In this case the spurs *b b* can be dispensed with.

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

The combination, with an angular bellows, of a binding or corner strip, A, of the character herein described, consisting of a strip of sheet metal which is bent at right angles, or nearly so, and provided with lips *c c*, to overlap the edges of the bellows-folds, substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 25th day of April, 1876.

LOUIS THEODOR SIMON. [L. S.]

Witnesses:

W. HAUFF,

ROBT. E. MILLER.