

(No Model.)

C. STRAUSS.  
HARMONICA.

No. 505,493.

Patented Sept. 26, 1893.

Fig: 1.

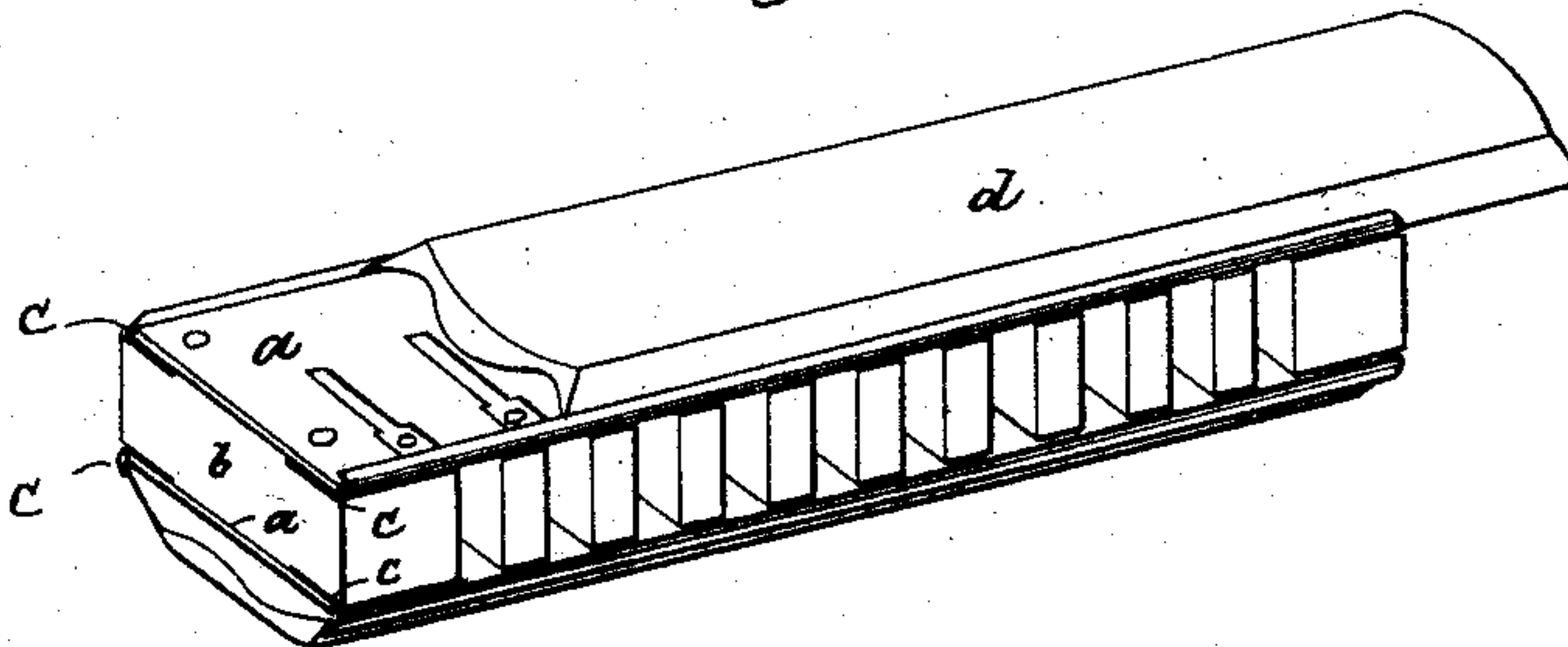


Fig: 2.

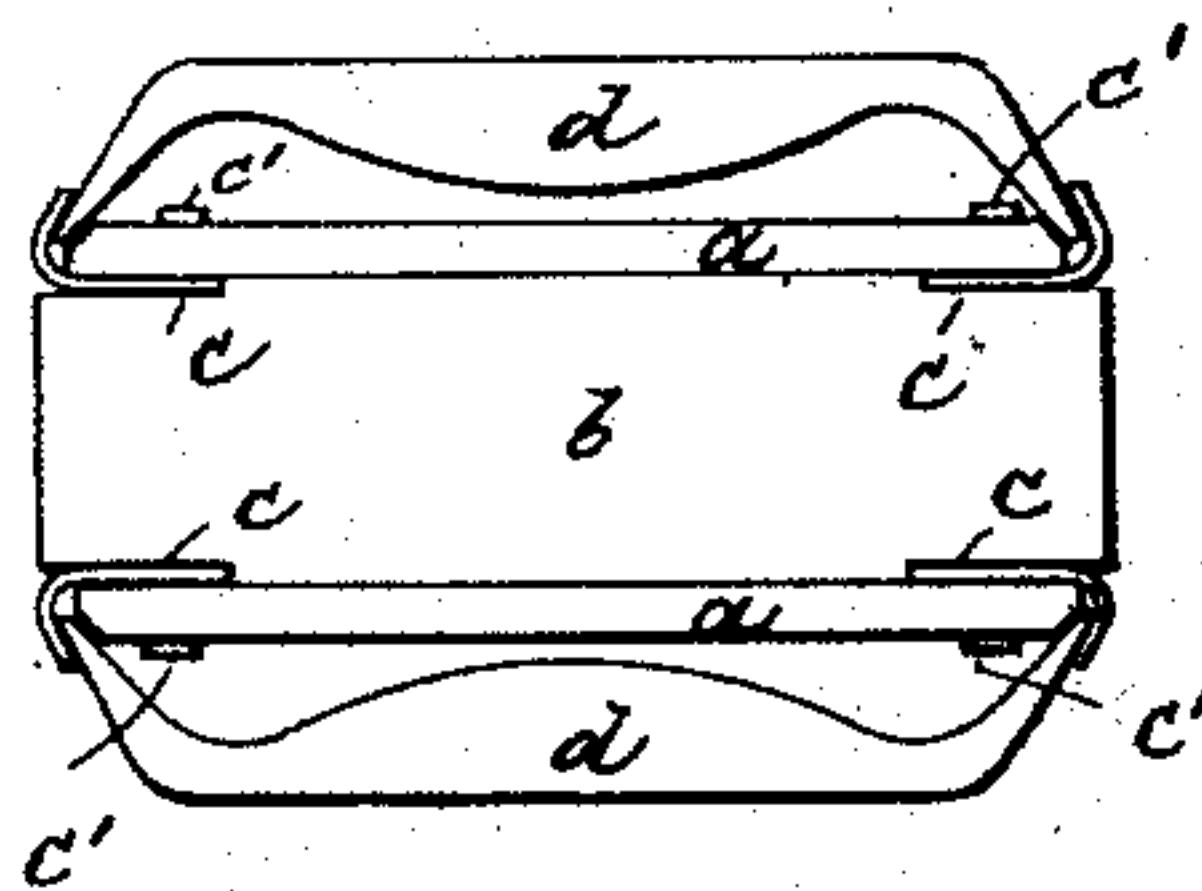
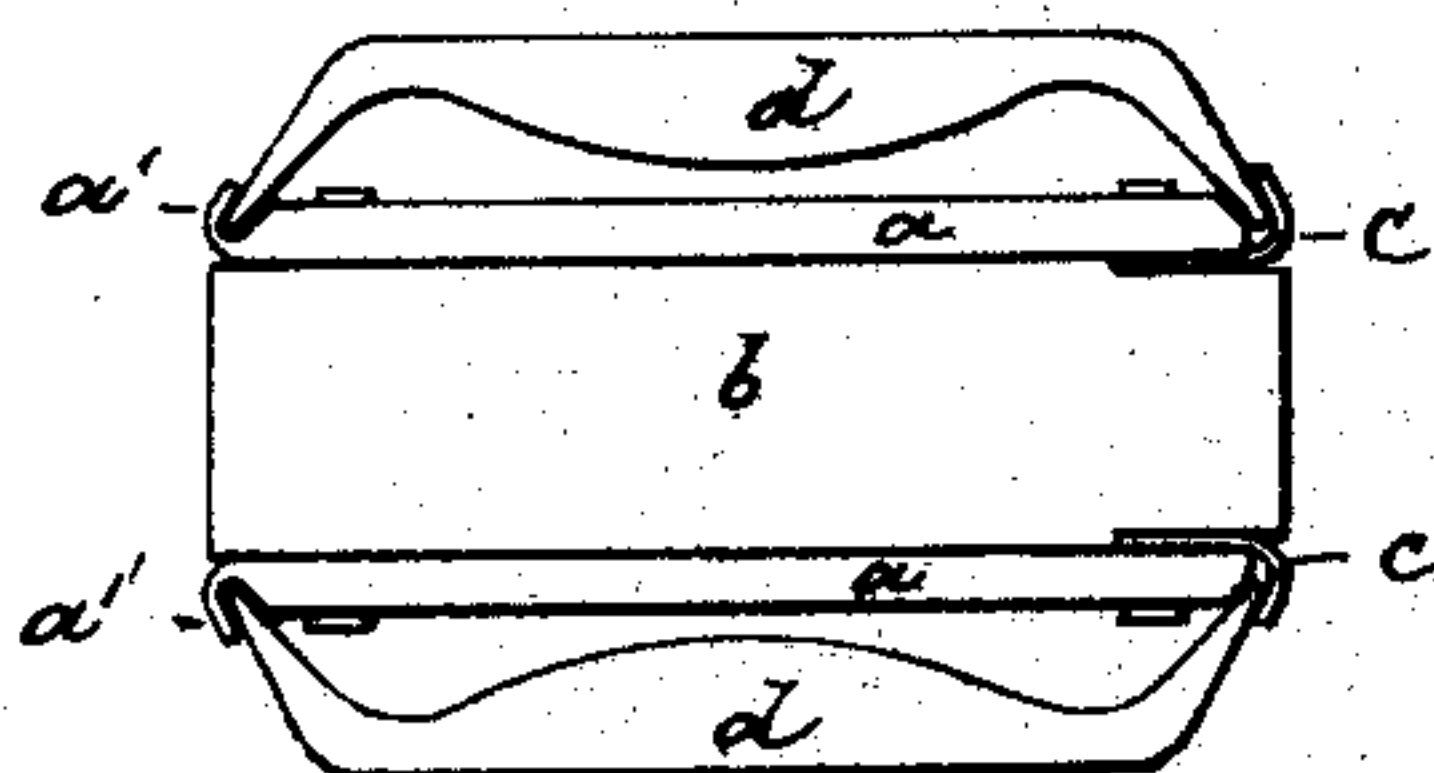


Fig: 3.



Witnesses:

Wm. Schulz.  
A. Jonghman.

Inventor:  
Carl Strauss  
by his attorneys  
Goeder & Briesen

# UNITED STATES PATENT OFFICE.

CARL STRAUSS, OF NEW YORK, N. Y.

## HARMONICA.

SPECIFICATION forming part of Letters Patent No. 505,493, dated September 26, 1893.

Application filed June 26, 1893. Serial No. 478,824. (No model.)

*To all whom it may concern:*

Be it known that I, CARL STRAUSS, of New York city, New York, have invented an Improved Harmonica, of which the following is a specification.

This invention relates to that class of harmonicas in which the covers over the reed plates are removable and more particularly to a novel construction of the rails that engage the edges of the sliding covers.

In the accompanying drawings: Figure 1 is a perspective view of my improved harmonica; Fig. 2 an enlarged end view thereof; Fig. 3 a similar view of a modification.

In Figs. 1 and 2, the letters *a*, represent the reed plates of the harmonica secured to both sides of the cell-containing block *b*, as usual. The rails are formed along both the edges of the plates *a*, and consist of angular strips *c*, introduced between the reed plates *a*, and cell body *b*, (Fig. 2) and secured in place by pins or nails *c'* as shown. The free ends of the strips *c*, project beyond the faces of the reed plates and engage the edges of the sliding covers *d*, so as to guide and retain the same in the proper manner. The advantage con-

nected with this construction is that the harmonica can be made without a mouth plate and back plate and that the strips *c*, can be made of thinner metal than the reed plates and can be readily upset.

In Fig. 3, I have shown the plates *c*, secured to one end only of the plates *a*, while at the opposite end, such plates are reduced and bent up as at *a'* to form the rails.

What I claim is—

1. The combination of a harmonica with rails secured to the reed plates and sliding covers received by the rails, substantially as specified.

2. The combination of a cell block *b*, with reed plates *a*, secured to the sides thereof, bent rails *c*, secured to the ends of the reed plates and sliding covers *d*, received by the outwardly bent ends of the rails, substantially as specified.

In testimony whereof I have hereunto set my name this 20th day of June, 1893.

CARL STRAUSS.

Witnesses:

F. V. BRIESEN,  
A. JONGHMANS.