

(No Model.)

G. K. BAGBY.
DENTAL ARTICULATION CUP.

No. 502,164.

Patented July 25, 1893.

Fig. 1.

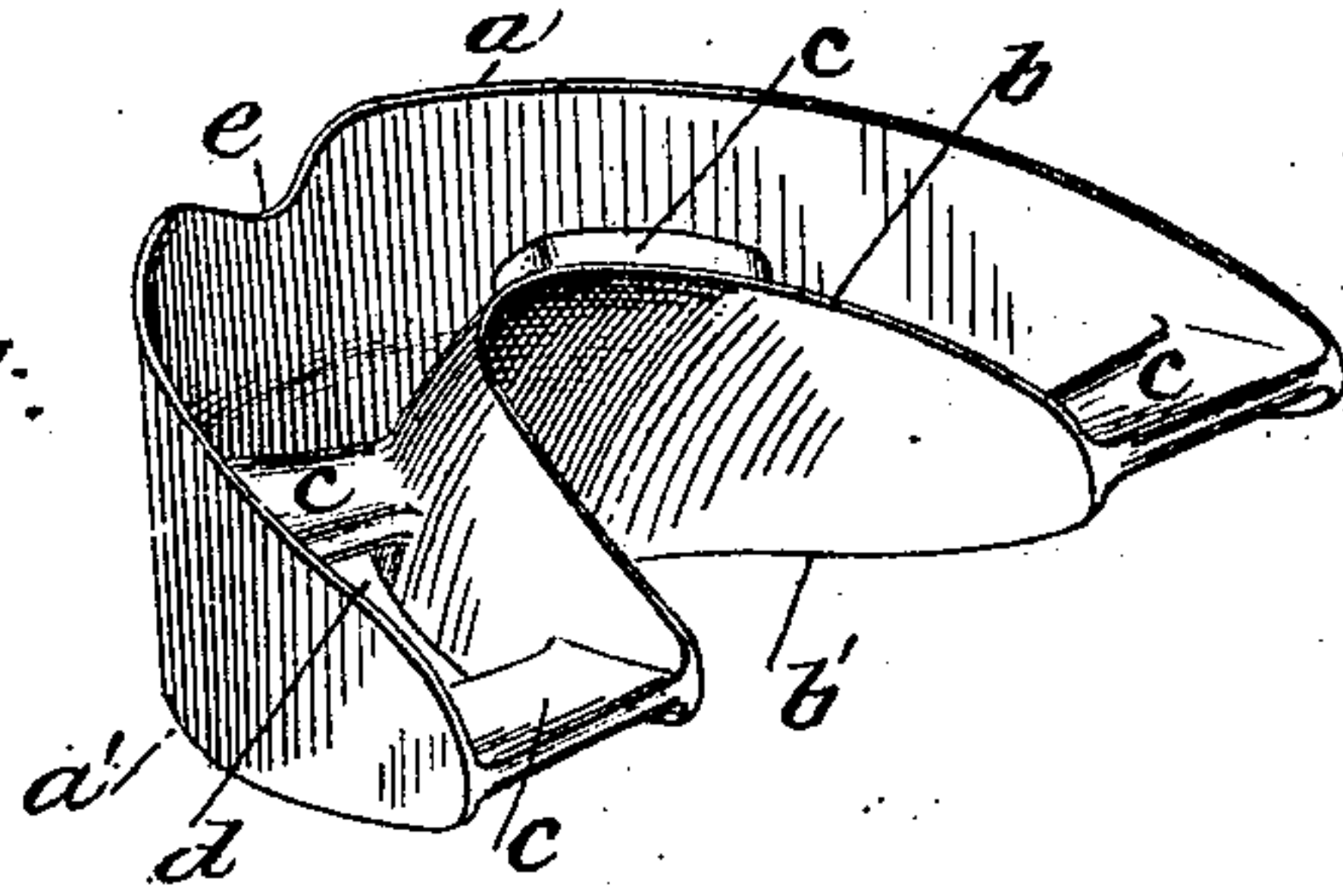


Fig. 4.

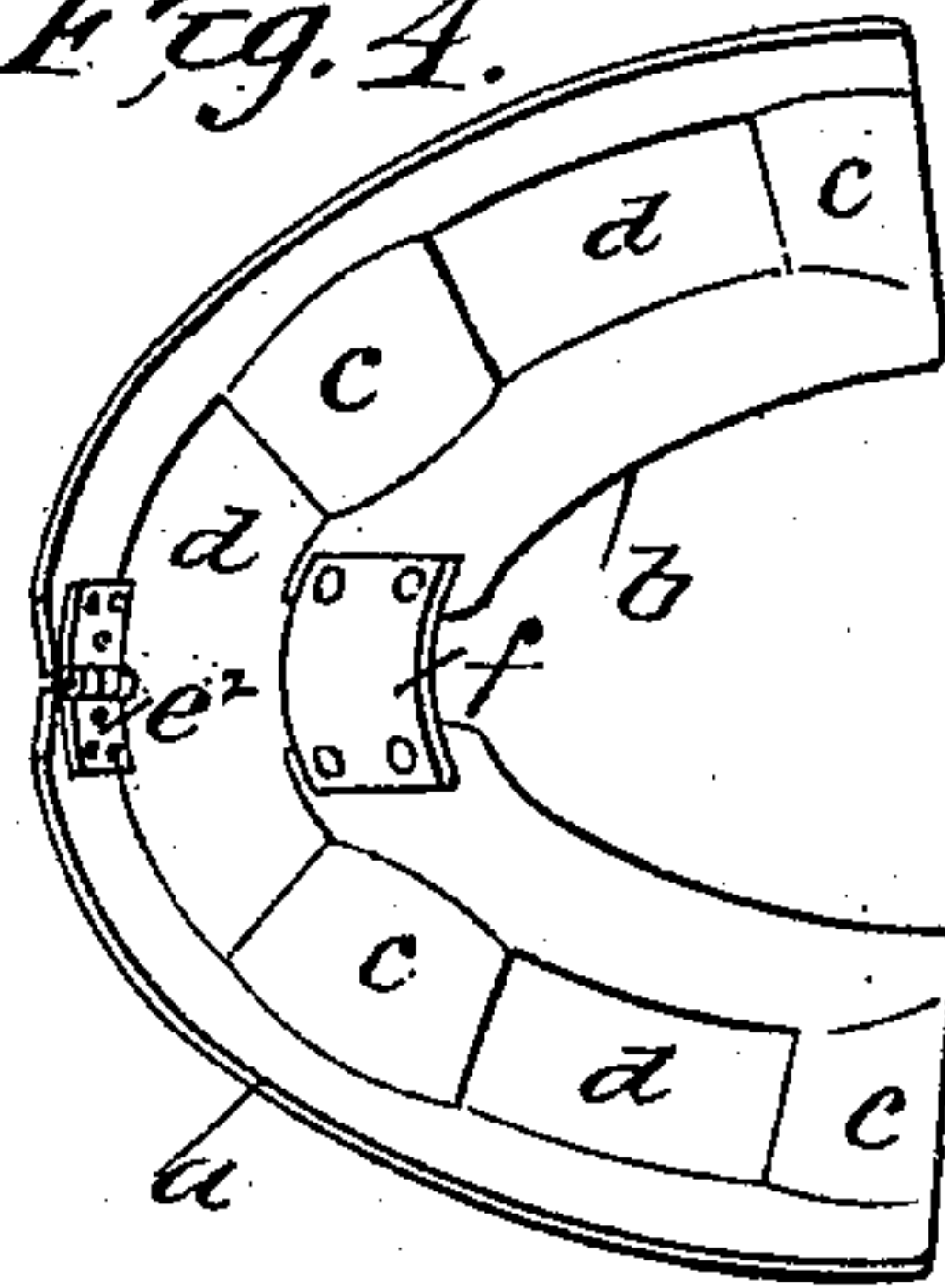


Fig. 2.

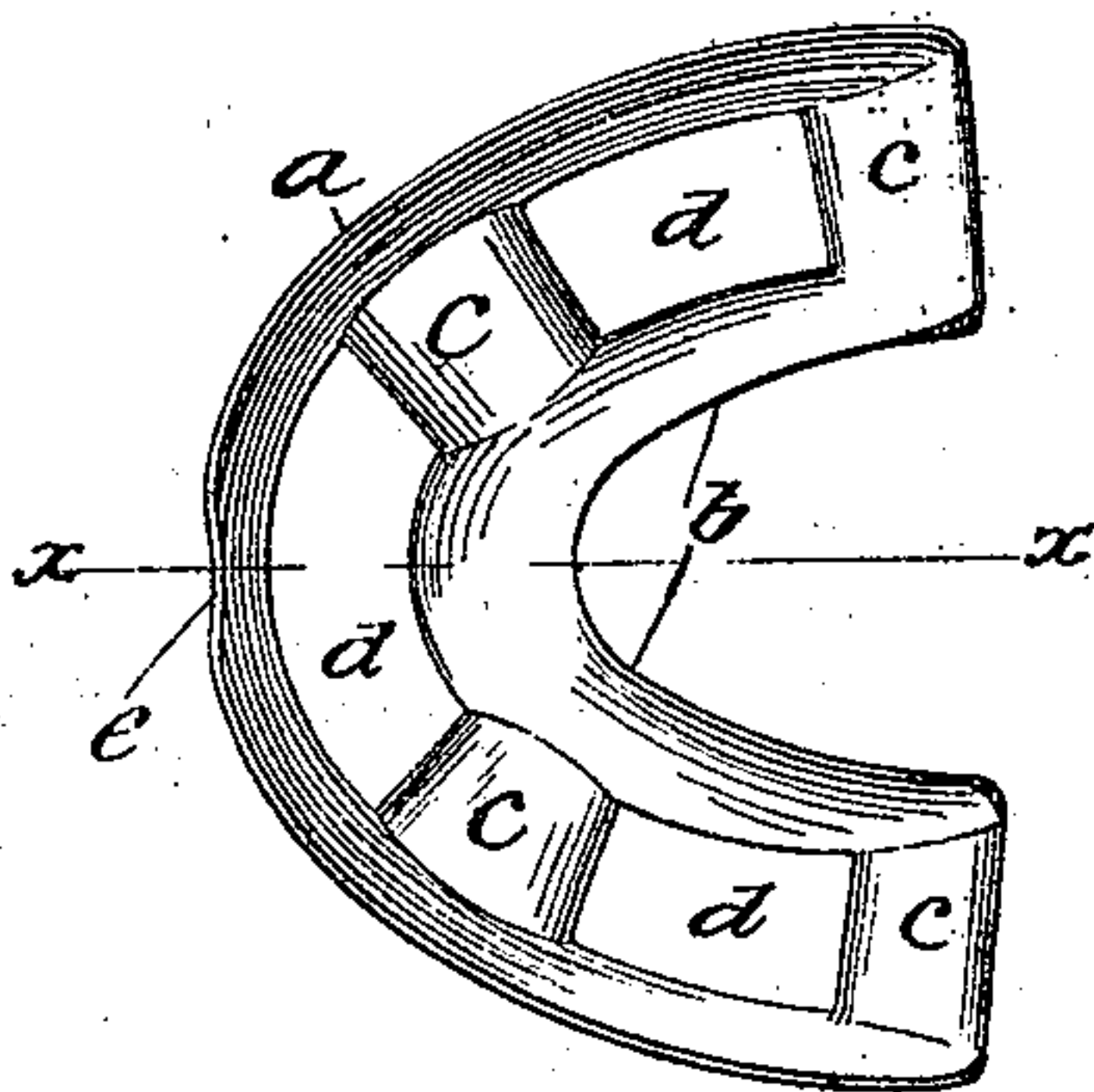
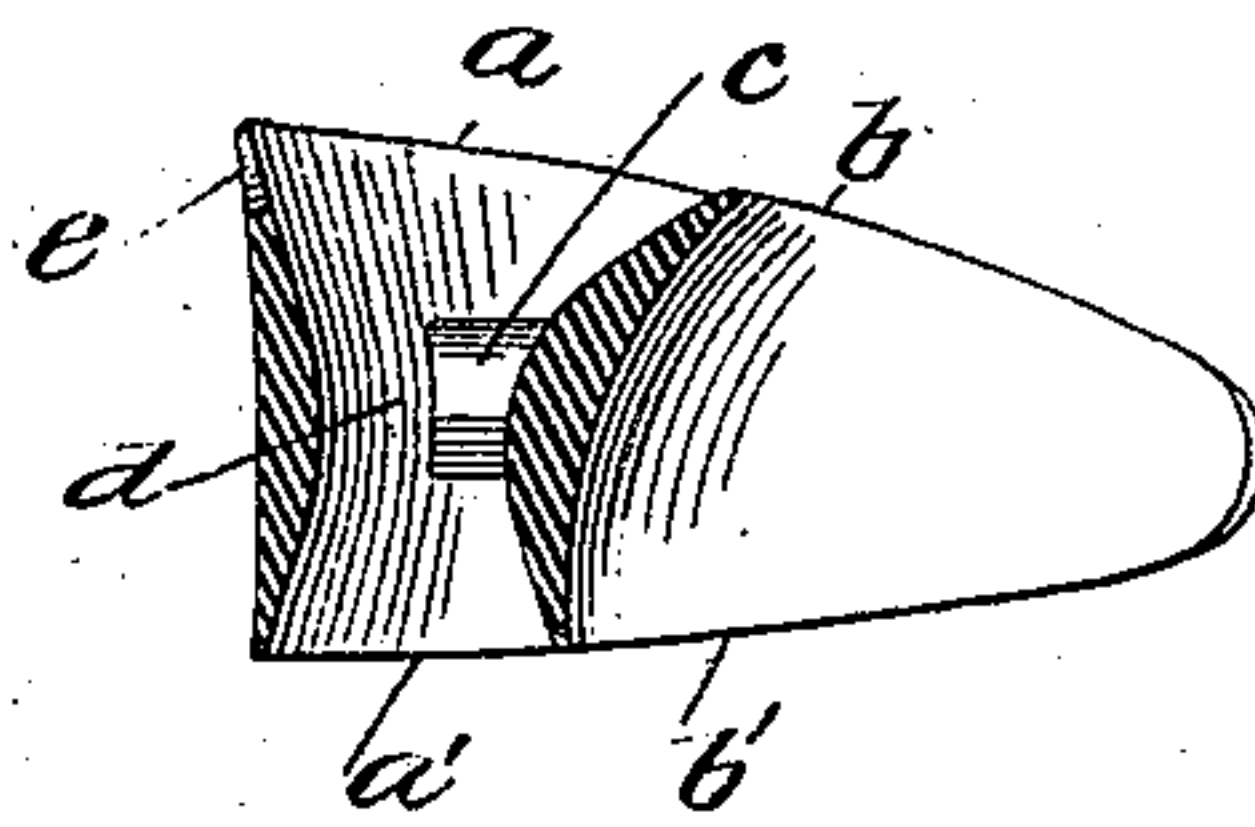


Fig. 3.



WITNESSES:

Fred G. Dieterich

Edw. W. Byrnes

INVENTOR

G. K. Bagby.

BY *Munn & Co.*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE K. BAGBY, OF NEW BERNE, NORTH CAROLINA.

DENTAL ARTICULATION-CUP.

SPECIFICATION forming part of Letters Patent No. 502,164, dated July 25, 1893.

Application filed November 26, 1892. Serial No. 453,223. (No model.)

To all whom it may concern:

Be it known that I, GEORGE K. BAGBY, of New Berne, in the county of Craven and State of North Carolina, have invented a new and
5 useful Improvement in Dental Articulation-Cups, of which the following is a specification.

The object of the invention is to provide a cup by which the dentist can take an additional impression for the articulation or bite,
10 at the same sitting that he takes the impression for the plate or plates, thereby saving two or three hours of the operator's time, and one visit of the patient.

To this end it consists in the peculiar construction and arrangement of the cup as hereinafter fully described.

Figure 1 is a perspective view of the cup. Fig. 2 is a plan view; Fig. 3 a vertical section through line $x-x$ of Fig. 2, and Fig. 4 a plan
20 view of a modification.

The cup is made of rubber, metal, or other desired material, and has an outer wall $a a'$, and an inner wall $b b'$, which are united at
25 intervals by ribs or webs c leaving open spaces d between. These ribs or webs are in the middle line or midway between the upper and lower edges of the walls. These walls are arched to correspond with the curvature
30 of the jaw, and the upper edge of the outer wall is notched at e in the middle to mark the median line of the arch.

The mode of using the cup is as follows: The upper and lower impressions for the
35 plates are first taken as usual. Then at the same sitting I get the impression for the articulation or bite in the following way. I first place the warm wax, in a plastic condition, in the upper portion of the cup herein
40 described between the outer and inner walls, and take the impression of the upper jaw and gum. The plate is then removed and excess of wax is trimmed away and the remainder allowed to cool. The lower part of the cup is
45 then filled with wax in the same way, first placing in the cup under the webs or ribs c a hard substance the thickness needed to give the length of teeth wanted. The cup is then placed again in the patient's mouth and the
50 patient then closes his mouth until the gums come in contact with the hard substance, the tongue of the patient meanwhile being held against the roof of the mouth. The cup is

then removed and all surplus wax is trimmed away, and the cup then placed in the mouth
55 so as to be sure of getting the correct contour of the face. The body of wax holding these two impressions is then ready to be used by the dentist between the molds held by the jaws of the articulator to determine
60 the bite or articulation without the necessity of the patient's return for this purpose and without delay to the dentist.

As a modification of my invention I may make the cup adjustable to different widths
65 of jaw by means of hinge e^2 in the outer wall and a flexible strip of metal f at the inner wall as shown in Fig. 4.

The object in having the holes d between the webs c is to allow the two wax impressions to unite so that they can not accidentally fall apart or drop out, and also further
70 to allow the measurement to be taken through the cup vertically to determine the thickness of hard substance used to give length of teeth.

I am aware of the patent to Toomey granted January 14, 1879, No. 211,438, in which the outer and inner walls are sustained upon a handle which projects out of the mouth. With this construction the lips cannot be
80 brought together to get a proper bite on account of the handle, and I therefor do not claim any such construction as is shown in this patent.

Having thus described my invention, what
85 I claim as new, and desire to secure by Letters Patent, is—

1. The dental articulation cup consisting of the outer arched wall $a a'$ having smooth and uninterrupted outer surface, the inner
90 arched wall $b b'$, and the connecting webs or ribs c uniting the two walls on the median line and all made in one piece substantially as and for the purpose described.

2. The dental articulation cup consisting
95 of the outer arched wall $a a'$, the inner arched wall $b-b'$ and the connecting ribs c , the said arched walls being provided, the outer one with a hinge e , and the inner one with a flexible sheet f , both arranged on the median line
100 of the walls to adapt them to different widths of jaw substantially as shown and described.

GEORGE K. BAGBY.

Witnesses:

EDW. W. BYRN,
SOLON C. KEMON.