

(No Model.)

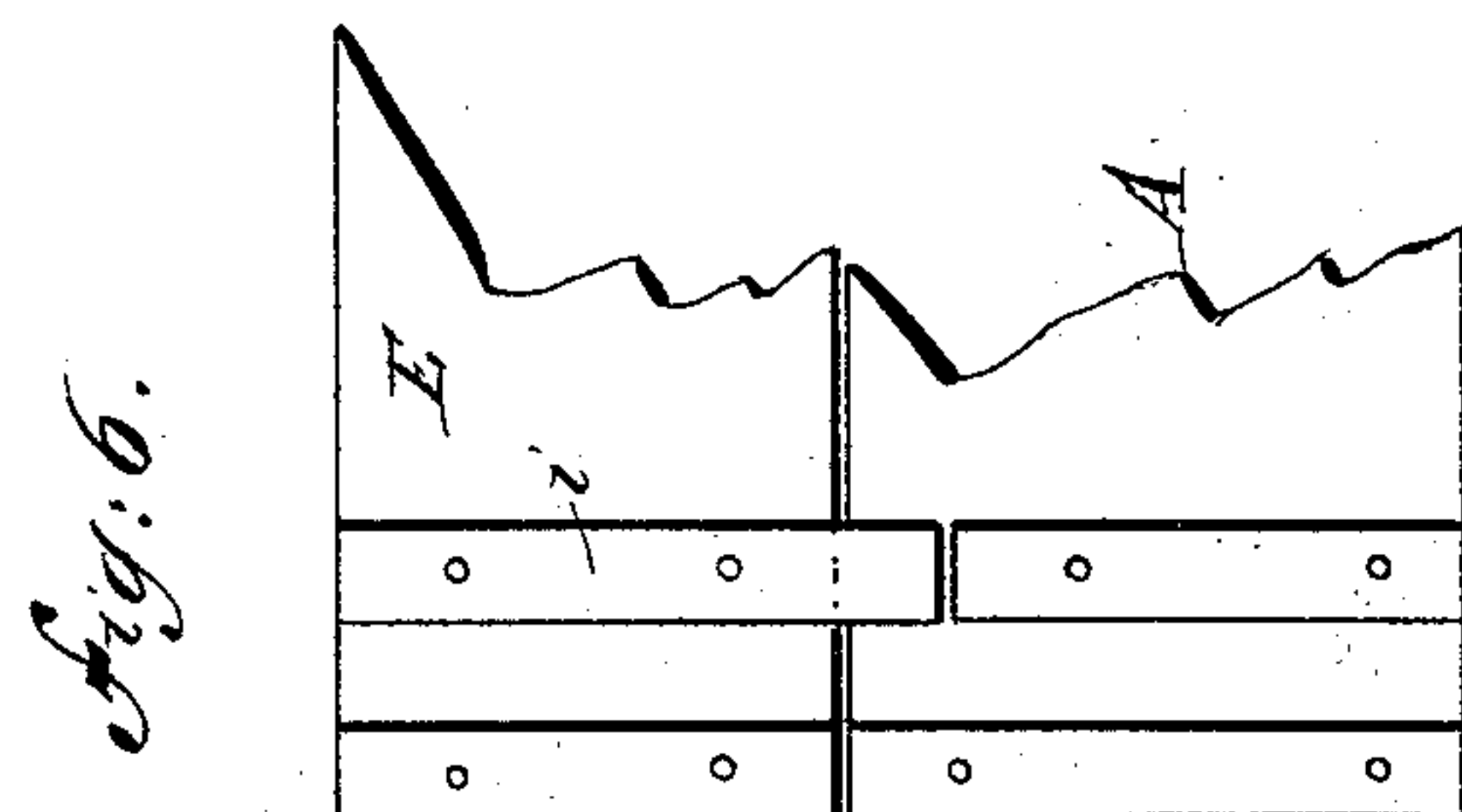
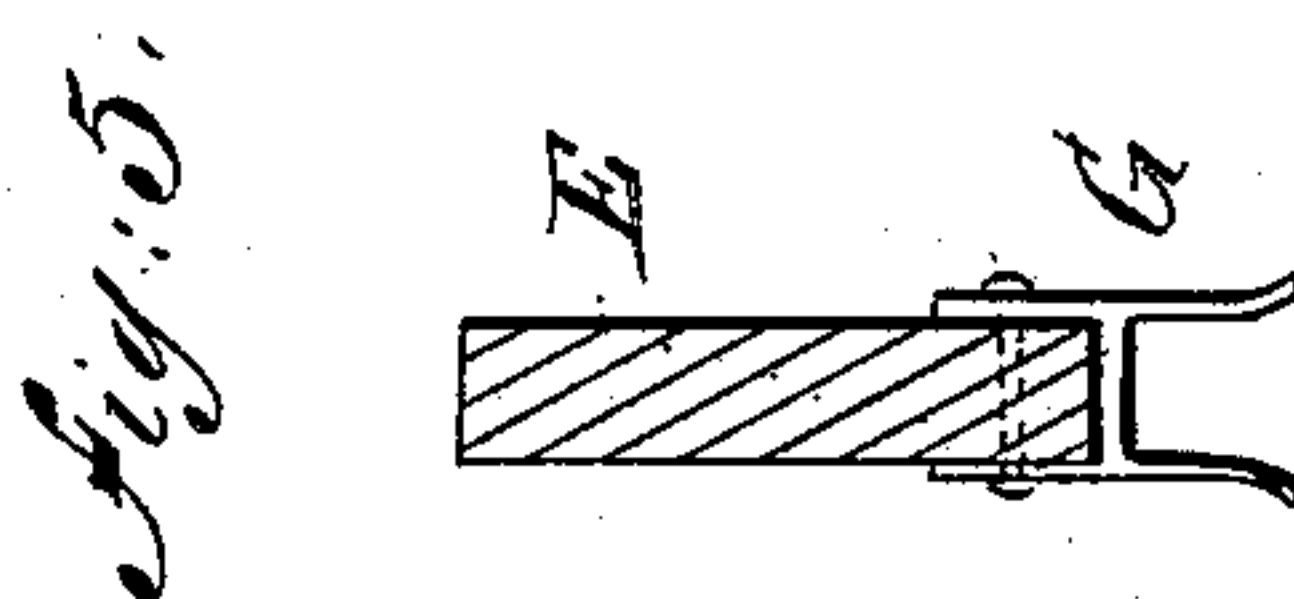
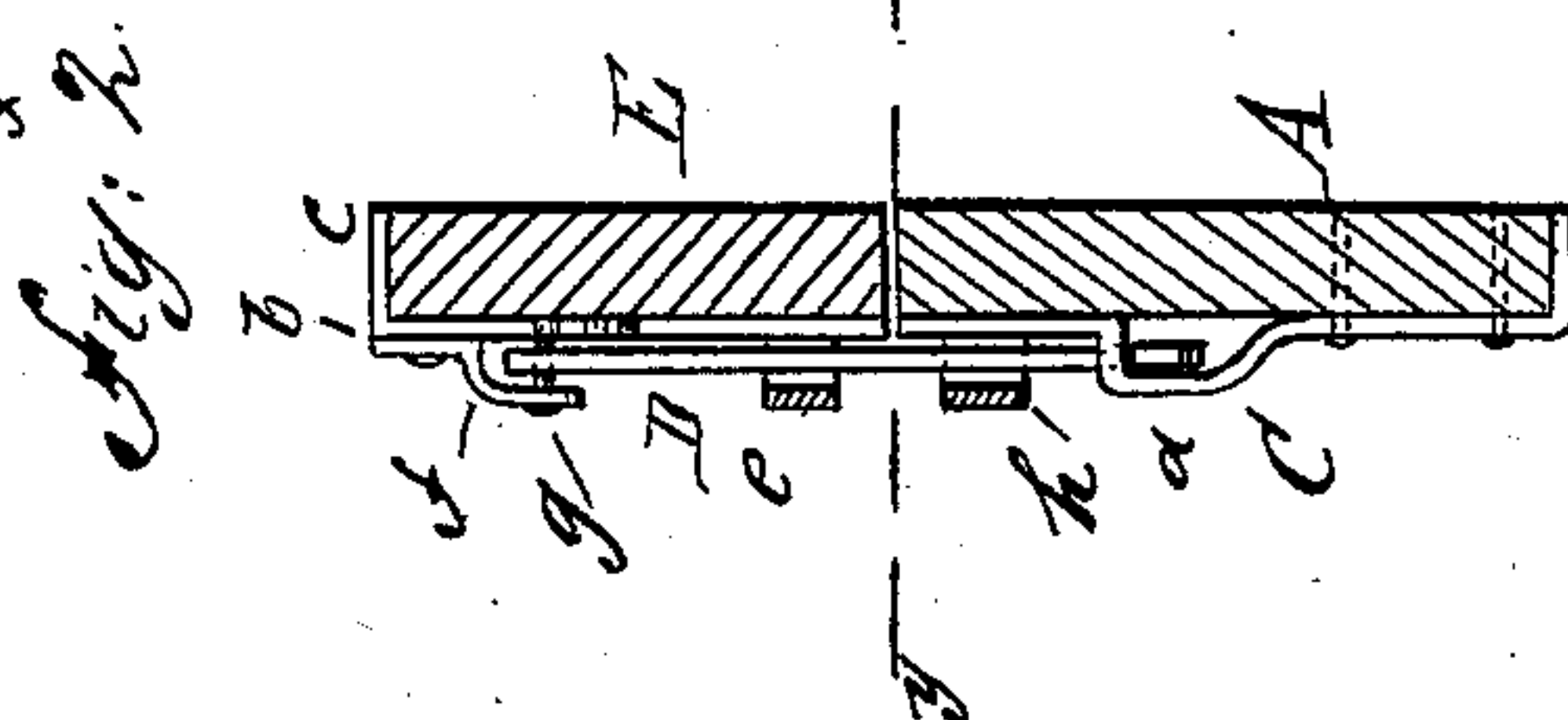
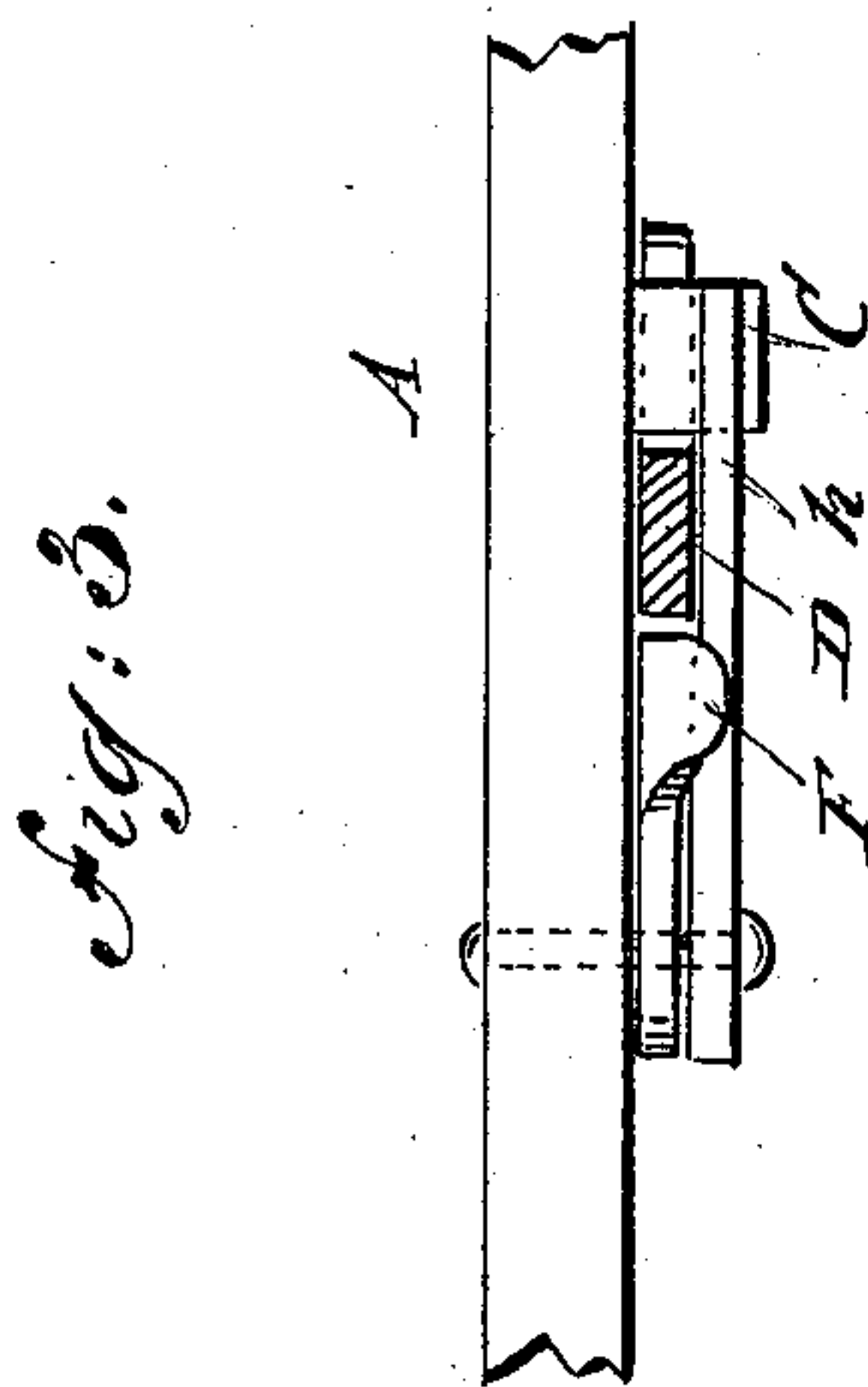
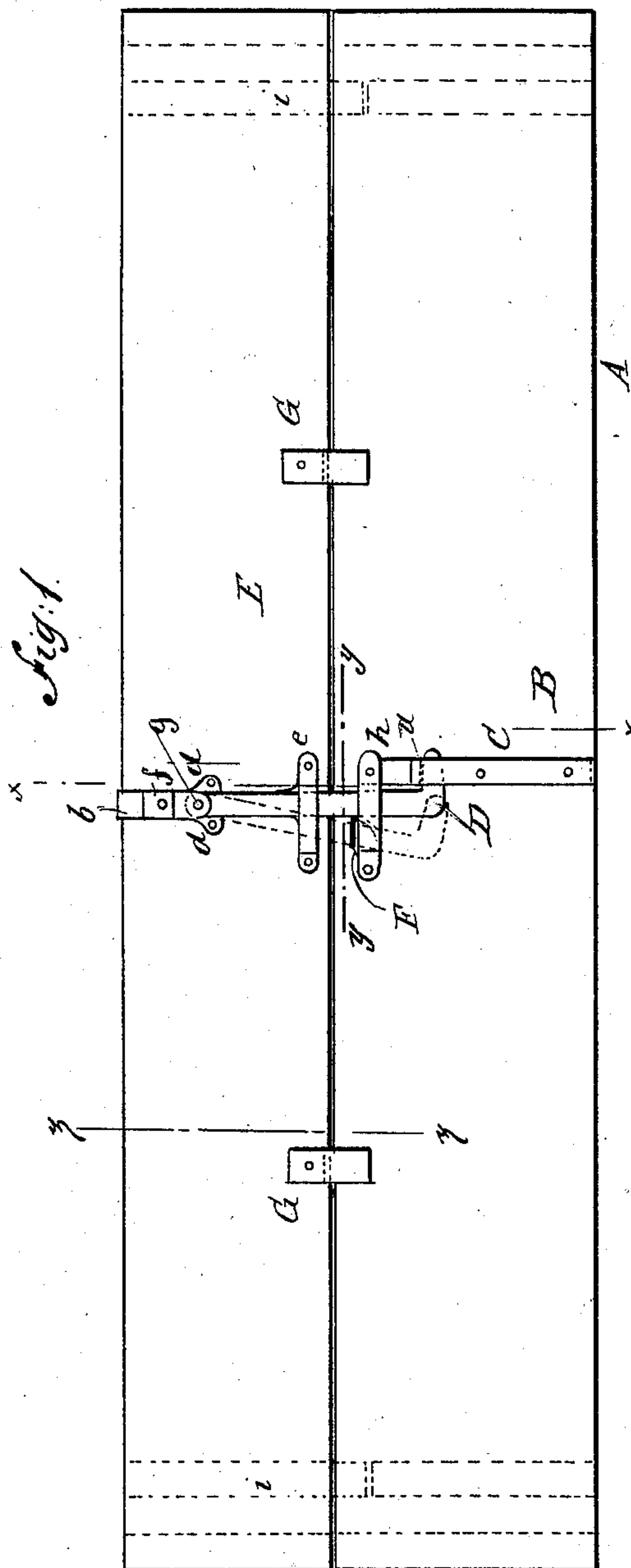
2 Sheets—Sheet 1.

N. O. CALKINS.

WAGON BOX LOCK.

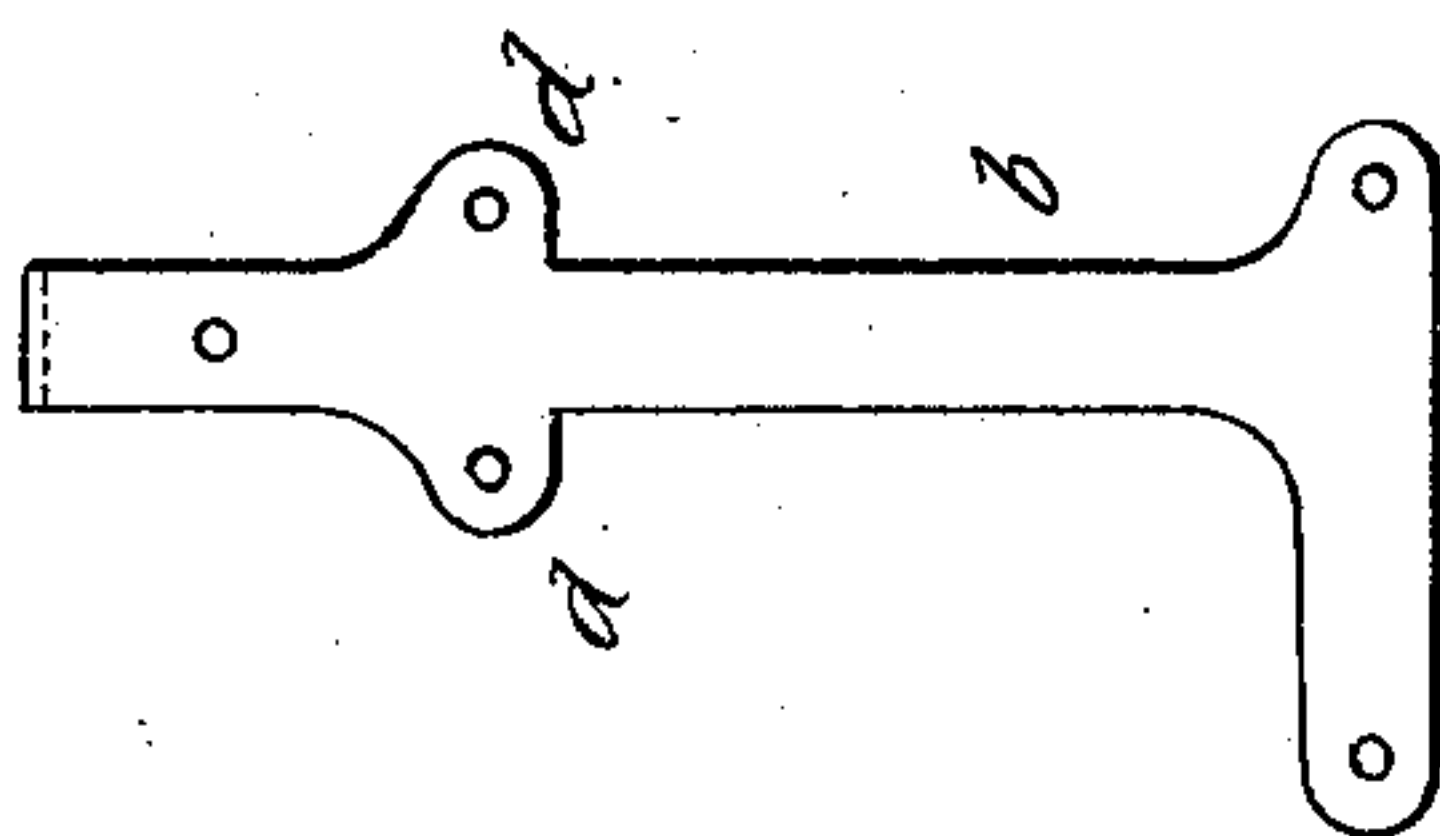
No. 364,801.

Patented June 14, 1887.



WITNESSES:

Chas. Nida
W. Bedgwick



INVENTOR:

N. O. Calkins

BY

Munn & Co.

ATTORNEYS.

(No Model.)

2 Sheets—Sheet 2.

N. O. CALKINS.

WAGON BOX LOCK.

No. 364,801.

Patented June 14, 1887.

Fig: 7.

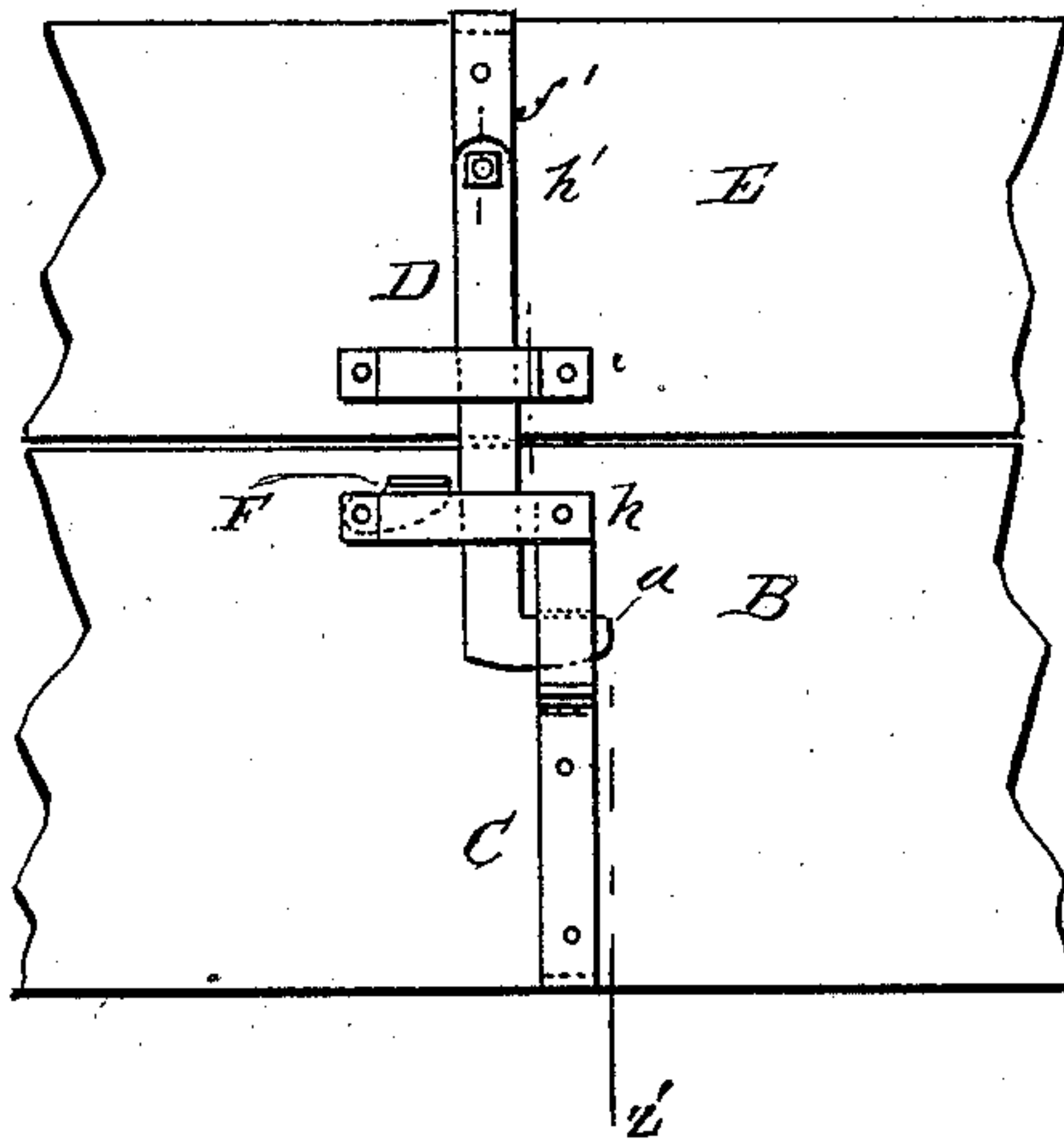


Fig: 8.

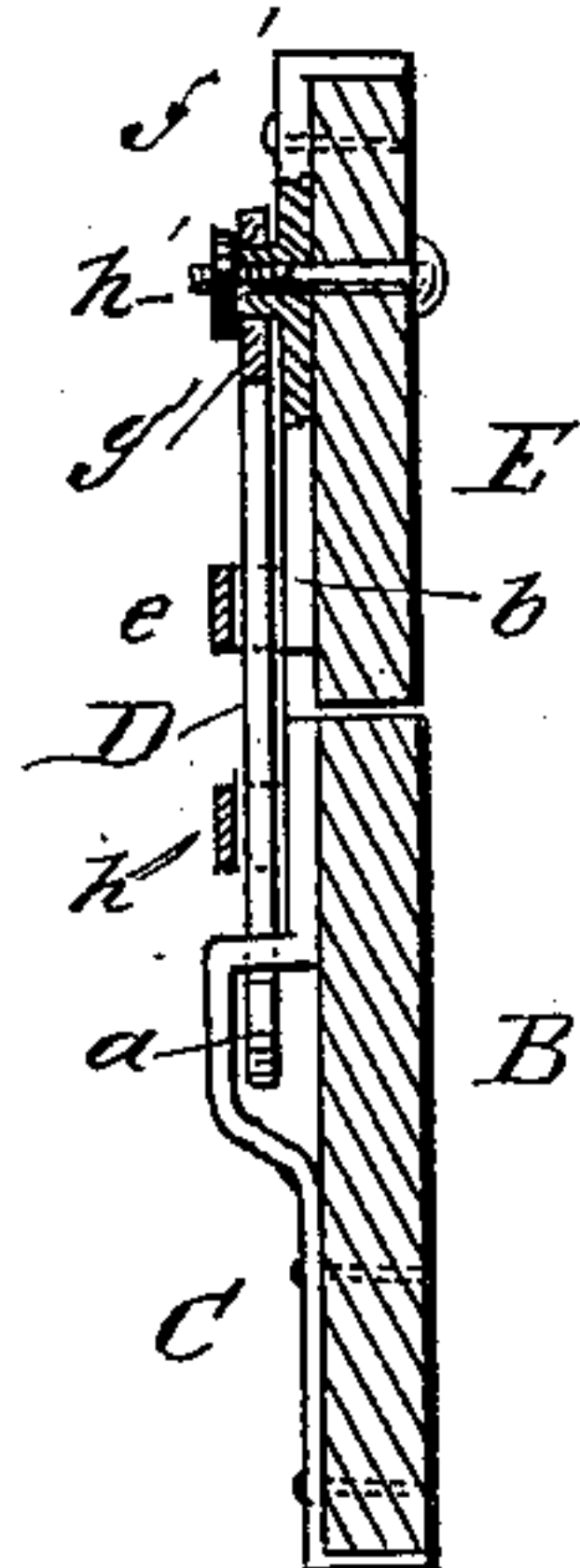
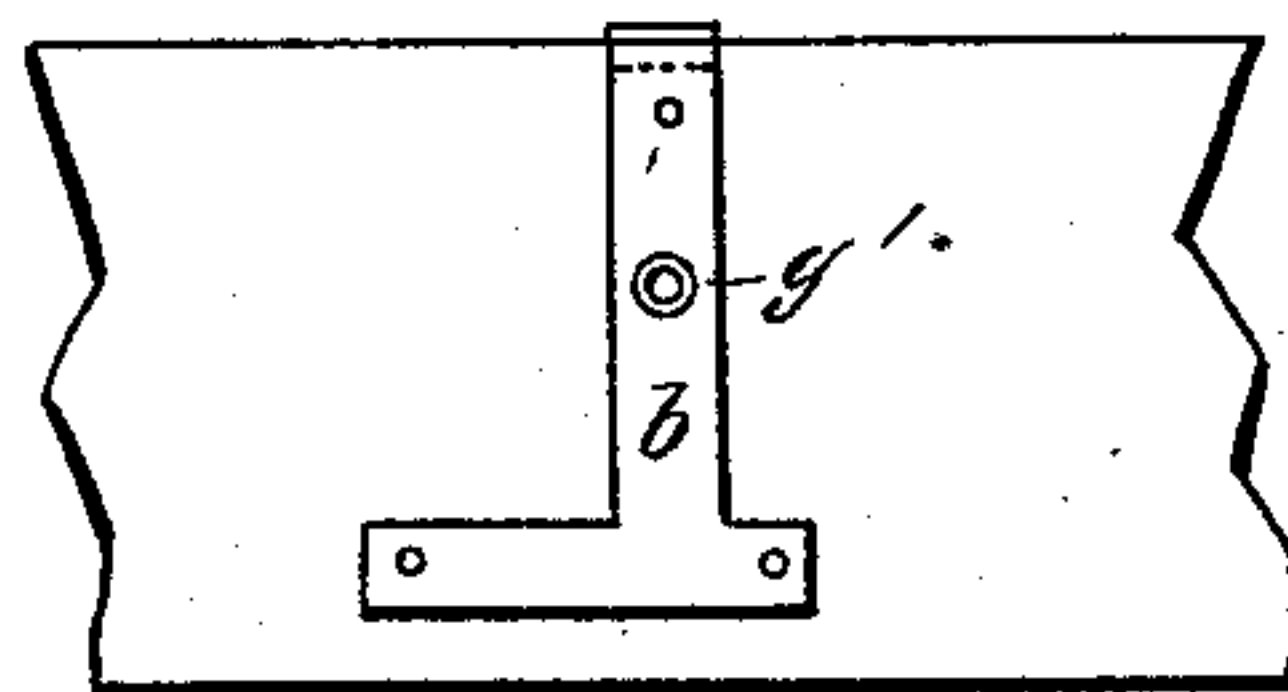


Fig: 9.



WITNESSES:

Amos Niora
C. Sedgwick

INVENTOR:

N. O. Calkins
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

NATHAN O. CALKINS, OF ELM CREEK, NEBRASKA.

WAGON-BOX LOCK.

SPECIFICATION forming part of Letters Patent No. 364,801, dated June 14, 1887.

Application filed October 13, 1886. Serial No. 216,038. (No model.)

To all whom it may concern:

Be it known that I, NATHAN ORSON CALKINS, of Elm Creek, in the county of Buffalo and State of Nebraska, have invented a new and Improved Wagon-Box Lock, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a side elevation of a wagon-box showing the application of my improvement. Fig. 2 is a vertical transverse section taken on line *x x* in Fig. 1. Fig. 3 is a horizontal section taken on line *y y* in Fig. 2. Fig. 4 is a detail view of one of the irons. Fig. 5 is a vertical transverse section taken on line *z z* in Fig. 1. Fig. 6 is an inside view of one of the corners of the box. Fig. 7 is a side elevation of a modified form. Fig. 8 is a transverse section taken on line *z' z'* in Fig. 7, and Fig. 9 is a detail view of one of the latch-irons.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to provide an efficient lock for fastening an auxiliary wagon-box on top of an ordinary box to increase the carrying capacity of the wagon and to do away with slats and staples commonly used.

My invention consists in a hook-latch of peculiar construction and a retaining device for holding the latch in a locked position, all as hereinafter more fully described, and pointed out in the claims.

The wagon-box A is of the usual description, and to each side-board B, near the middle thereof, is secured a strap, C, which is offset, forming a loop, *a*, for receiving the end of the hook-latch D, which is pivotally connected with the auxiliary box E, placed on the top of the box A. The lower end of the strap C is bent at right angles and extends under the edge of the side-board of the lower box A.

To each side of the auxiliary box E, near the center thereof, is secured a T-shaped iron, *b*, having its upper end bent at right angles, forming an arm, *c*, for engaging the upper edge of the auxiliary wagon-box E. The body of the T-shaped iron *b* is provided with apertured ears *d* for receiving the bolts by which it is fastened to the box, and opposite ends of the T-shaped head of the said iron are apertured to receive bolts which are also employed to secure the offset-strap *e*. To the T-shaped

iron *b*, near the upper end thereof, is secured an arm, *f*, which is offset and projects downward a short distance over the face of the iron *b*, and is apertured to receive a bolt or rivet, *g*, which forms the pivot of the hook-latch D, the latch being held in place and guided by the offset-strap *e*.

To the wagon-box A is secured an offset-strap, *h*, at right angles to the strap C, and between one end of the strap *h* and the side of the wagon-box is pivoted the latch F. The lower hooked end of the hook-latch D is beveled to allow the latch to compensate for the swelling or shrinking of the box sides.

The locks applied to opposite sides of the wagon-box are similar but oppositely arranged with respect to each other, and are adapted to the position in which they are placed.

To the lower edge of the sides of the auxiliary box E are secured clips G, which embrace the upper edge of the lower box and serve to make the connection between the upper and lower box more rigid and positive. To the inner sides of the side-boards of the auxiliary box are secured cleats *i*, which project below the box and enter the corners of the lower or main box, A, to cause the boxes to register at the corners. When the auxiliary box is placed on the main box, the hook-latch D is inserted between the strap *h* and the side of the box A, the latch F being thrown back, and when the auxiliary box is in place on the top of the main box the hook-latch D is pushed forward into engagement with the strap C, and the latch F is brought down against the rear edge of the hook-latch D, holding it rigidly in engagement with the strap C.

In the modified form shown in Figs. 7 to 9 the iron *b* is provided with a short sleeve, *g'*, on which the latch D is pivoted, the latch being held in place by the bolt *h'*, which passes through the sleeve and through the box E, thus forming a simple, strong, and inexpensive pivot for the latch.

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

1. The combination, with the main box A and auxiliary box E, of the offset-strap C, the T-shaped iron *b*, the hook-latch D, the offset strap or keeper *h*, and the pivoted latch F, hung between said main box and offset strap or

keeper, for holding the hooked latch in engagement with the strap C, substantially as described.

2. The combination, with the main box A
5 and auxiliary box E, of the hook-latch D, provided with a beveled hook for engaging the strap C, and the pivoted latch F, hung between said main box and a keeper or offset-
strap, *h*, for holding the hooked latch in en-
10 gagement with the strap C, substantially as described.

3. As an improved article of manufacture, a wagon-box lock formed of the T-shaped iron
b, the offset-arm *f*, attached thereto, the hooked
15 latch D, the strap *c*, secured to the T-shaped iron *b*, the offset-strap C, the offset-strap *h*,

and the pivoted latch F, hung between the main box A and the offset-strap *h*, substantially as described.

4. The wagon-box lock consisting of the 20
L-shaped hook-latch pivoted at its upper end and confined near its lower end within a keeper or offset-strap, the additional latch arranged to bear against the aforesaid latch, and the
additional offset strap or loop to receive the 25
free end of the aforesaid latch, substantially as and for the purpose set forth.

NATHAN O. CALKINS.

Witnesses:

D. I. BROWN,
F. H. PERRY.