

No. 708,082.

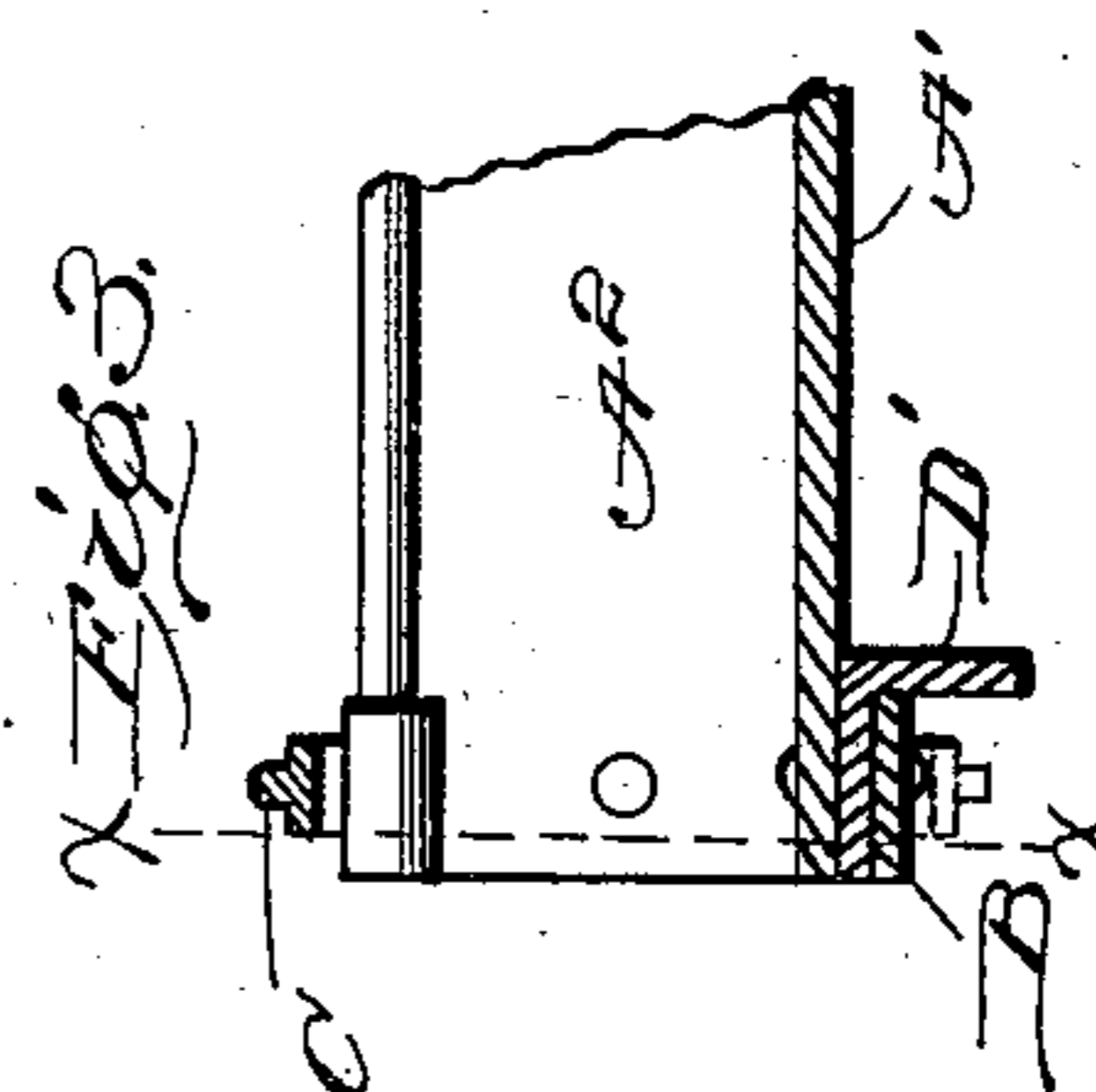
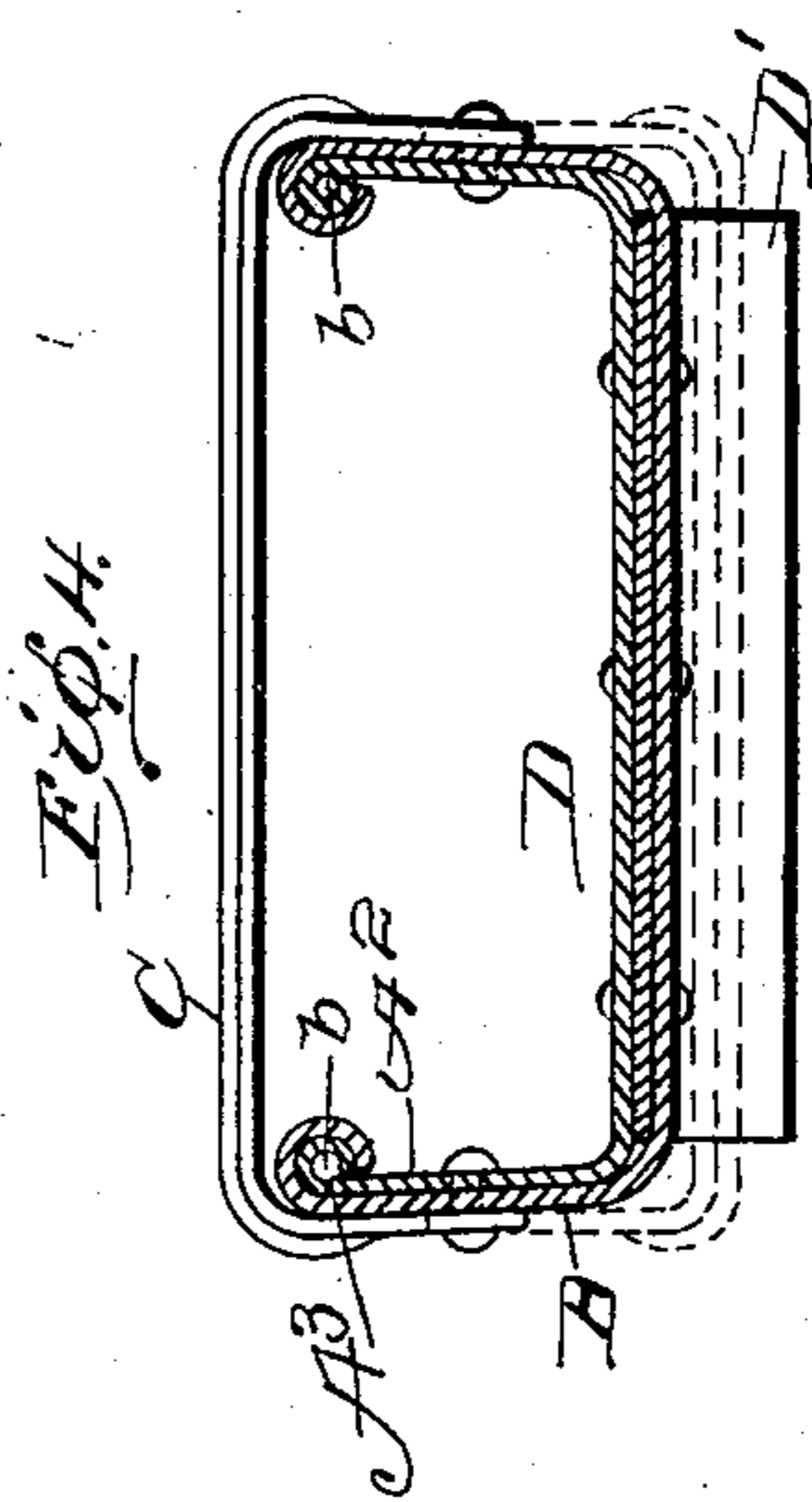
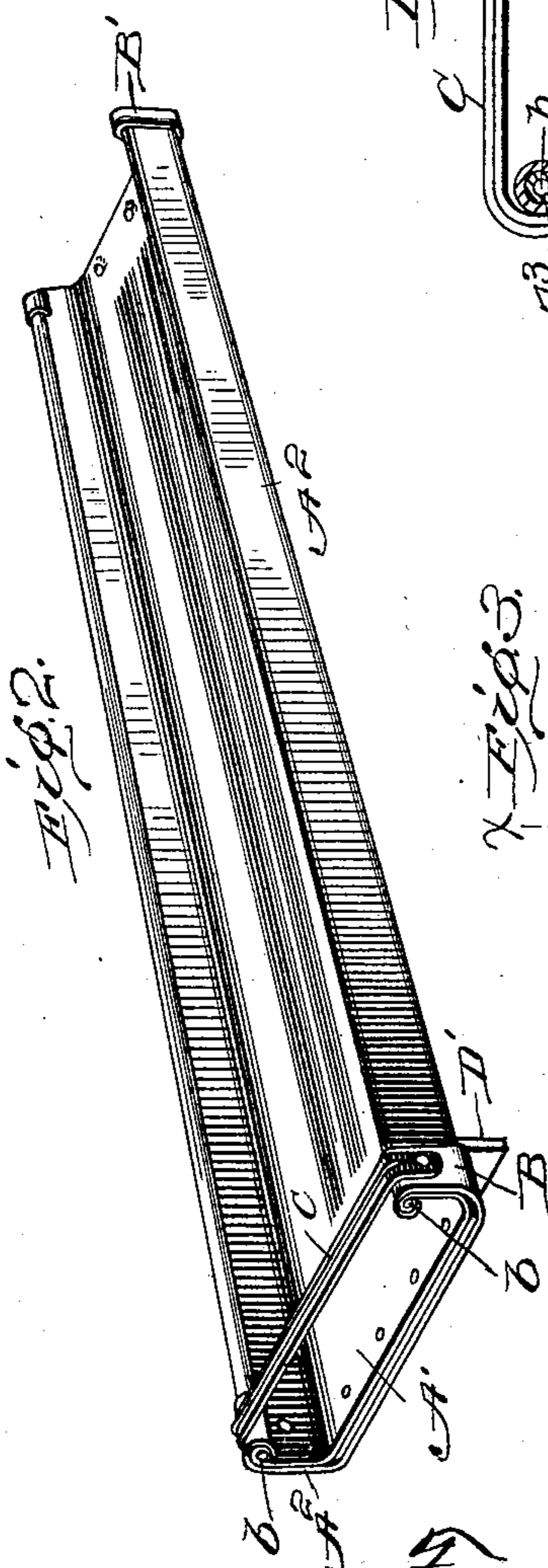
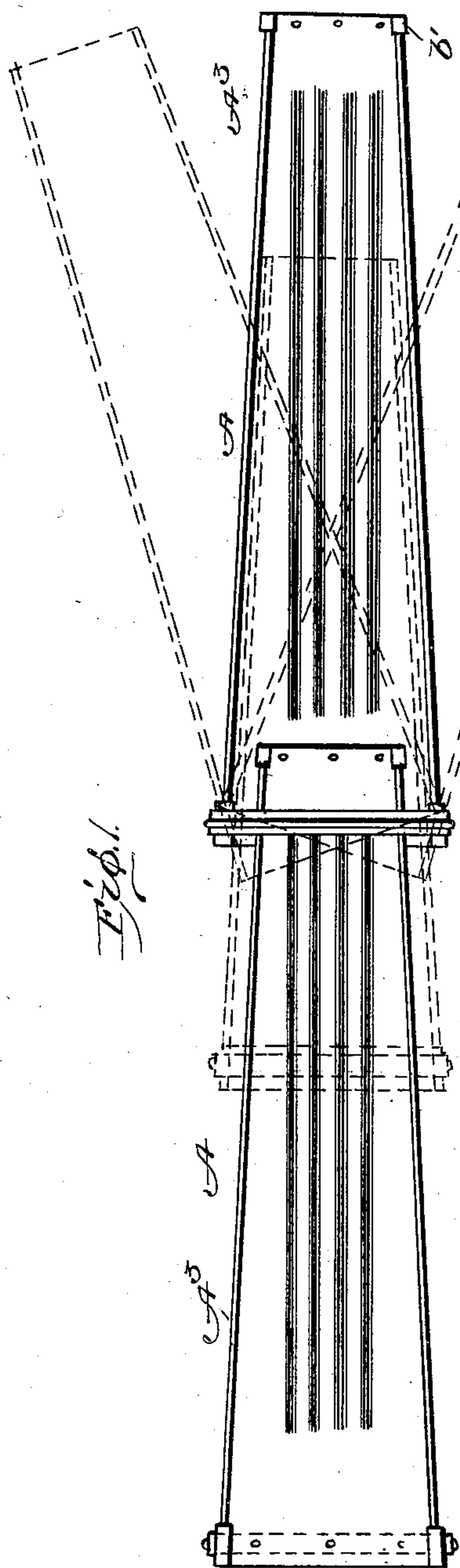
Patented Sept. 2, 1902.

F. L. SACKETT.  
CHUTE.

(Application filed Mar. 17, 1902.)

(No Model.)

2 Sheets—Sheet 1.



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2 Sheets—Sheet 2.

Fig. 5.

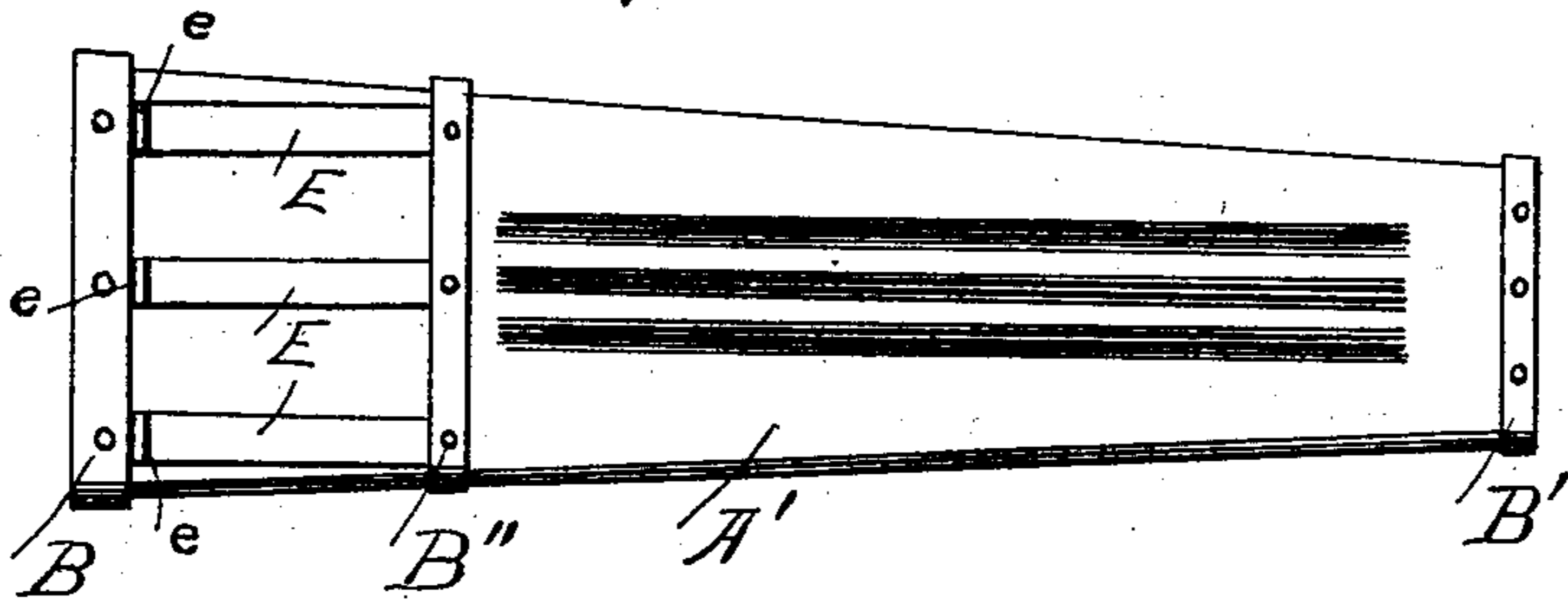


Fig. 6.

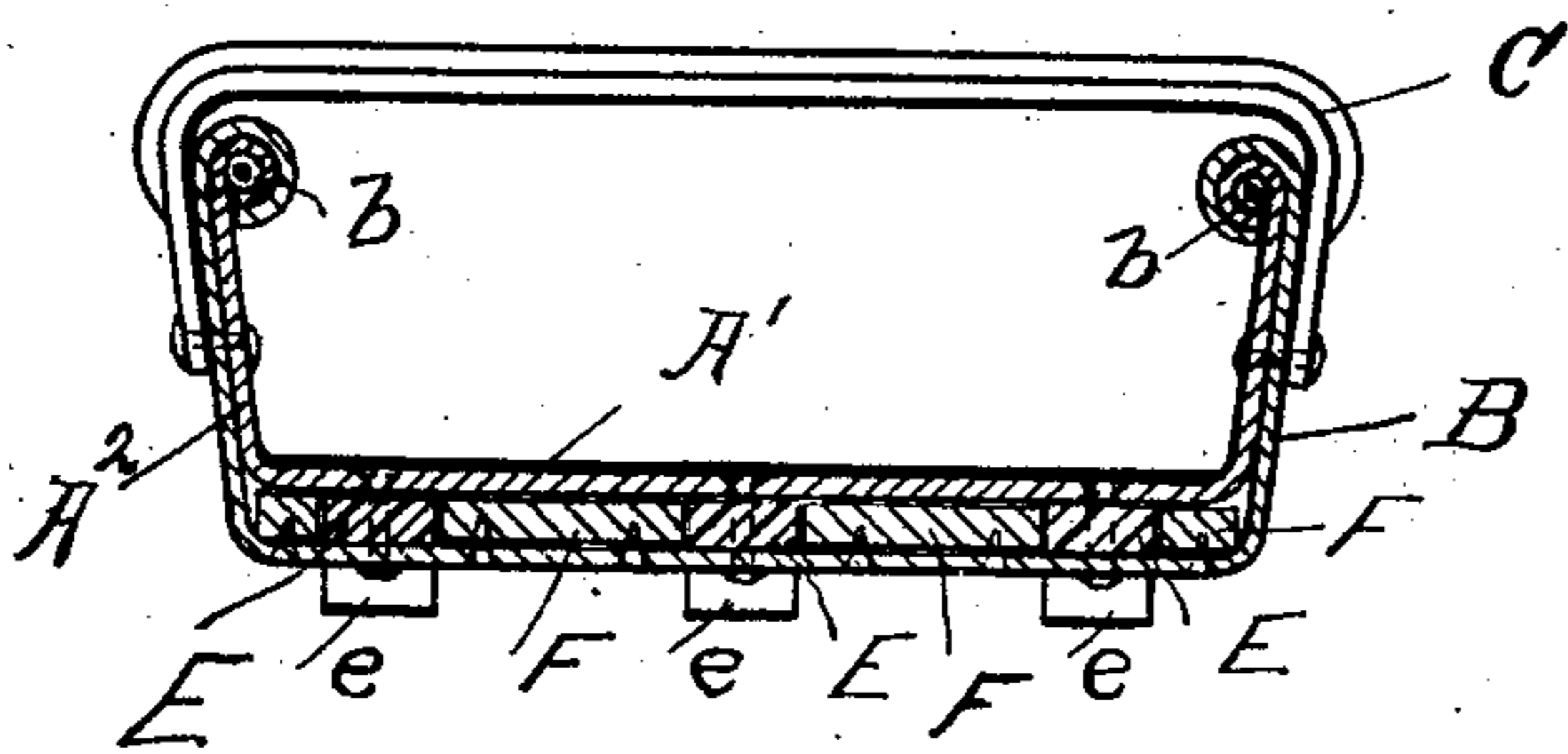
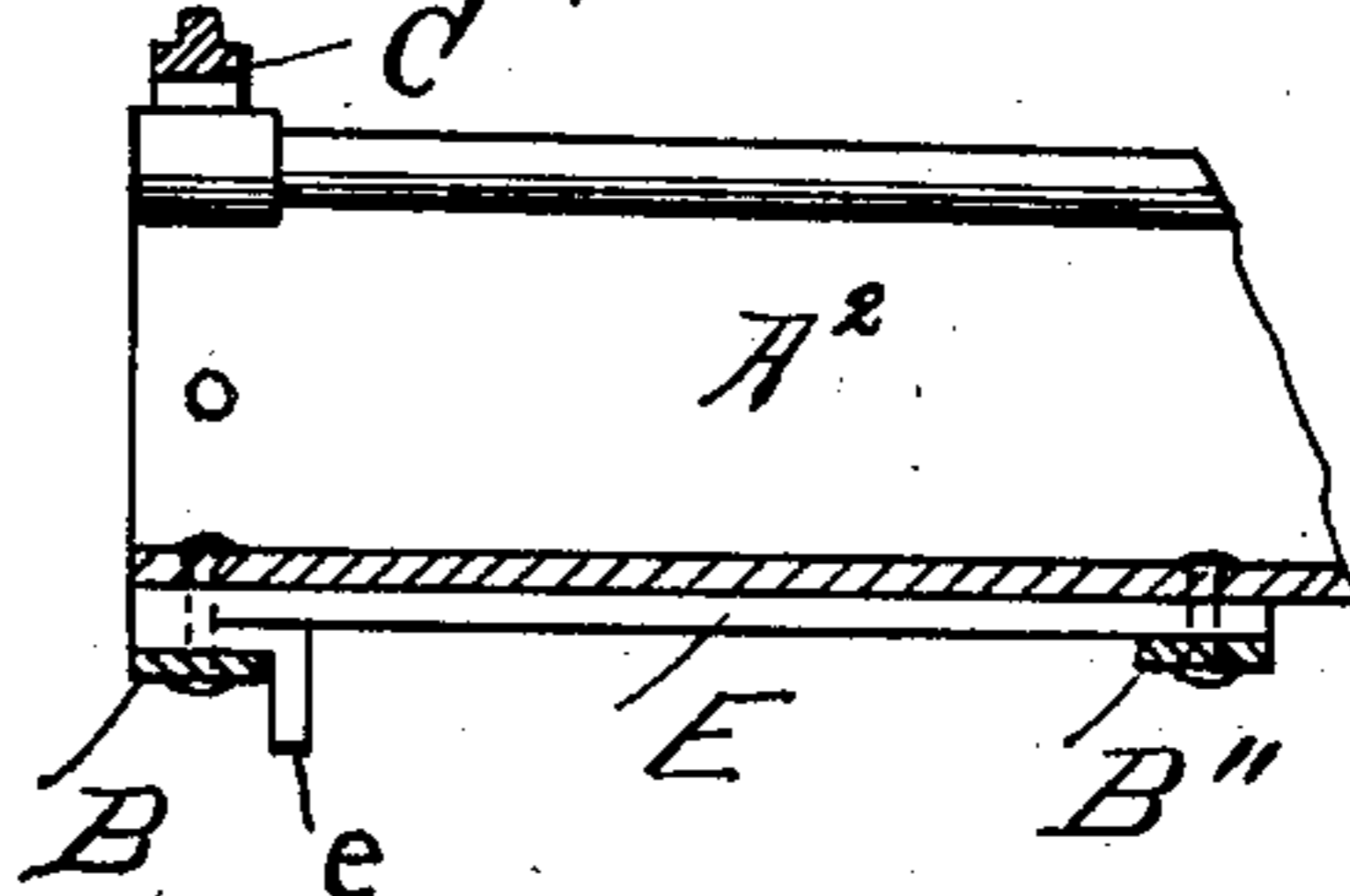


Fig. 7.



WITNESSES

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# UNITED STATES PATENT OFFICE.

FRANK L. SACKETT, OF FREDONIA, NEW YORK.

## CHUTE.

SPECIFICATION forming part of Letters Patent No. 708,082, dated September 2, 1902.

Application filed March 17, 1902. Serial No. 98,478. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK L. SACKETT, a citizen of the United States, residing at Fredonia, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Chutes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in chutes; and its object is to construct a strong and durable chute and to provide means whereby two similar chutes may be adjustably connected together.

The invention consists in the novel construction and combination of parts herein-after described and claimed, and illustrated in the drawings, in which—

Figure 1 shows in top plan two chutes adjustably connected together by my improved means and in dotted lines the manner of adjusting the same angularly. Fig. 2 is a perspective view of my improved chute. Fig. 3 is a fragmentary longitudinal section. Fig. 4 is a sectional view on the line  $xx$ , Fig. 3, the tapered portion being omitted and the parts proportionally distorted to better show the structure. Fig. 5 is a bottom plan view of a slightly-modified form of chute. Fig. 6 is a view similar to Fig. 4, but showing the modification. Fig. 7 is a view similar to Fig. 3, but showing the modification.

My chute A is preferably made of sheet metal, and consists of a flat bottom portion A', having longitudinal corrugation therein, and its sides A<sup>2</sup> are formed integral therewith by bending the metal from the plane of the bottom to the desired angle, which is about ninety degrees. At the top edges of the sides the metal is bent into tubular form A<sup>3</sup> and receives a pipe or rod  $b$ , around which the metal is closely bent. At the upper end of the chute I provide a metal band B, so bent as to conform to the shape of the chute—that is, the band extends across the bottom thereof on the outside of the chute, then up the side portions, and at the top is bent around the roll formed by the metal rod or tube. I also provide a similar strengthening-band B' at the lower end of the chute. These bands

are secured to the chute-body by suitable rivets or bolts.

I provide at the upper end of the chute a check or hook which serves to hold and support the chute in the well-known way. This check or hook D', as illustrated in Figs. 1 to 4, inclusive, consists of an angle-plate, one arm of which lies between the chute-body and the strengthening-band B and the other arm extends at right angles to the chute-body. The rivets or bolts that secure the strengthening-band pass through the angle-iron and securely fasten the same to the chute. In Figs. 5 to 7 I have shown another form of check or hook, which comprises strips E, preferably three in number, which extend longitudinally of the chute for a short distance and are securely held by the strengthening-band B in the same manner as the angle-iron. The lower ends of the strips pass beneath a supplemental strengthening-band B'' and are similarly fastened. These strips E are bent back upon themselves and then outward at right angles to the body portion to form the hook  $e$ , as clearly shown in Fig. 7. Between the strips E, I place blocks F, which, together with the strips, form a continuous support for the bottom A' at the top end. I also provide my chute with a bail C, which is preferably made of T-iron, although angle-iron, a flat strip, or a rod may be used. The bail extends in a right line across the chute and is bent at its ends to form a means of attachment. The T portion is cut away at the ends to form flat ends, which ends are pivotally secured to the chute at its top end. The pivots for the bail pass through the strengthening-bands and are so located relatively to the height of the chute that the bail may be swung down beneath the chute-body, as shown in dotted lines in Figs. 3 and 4, or turned above the chute, as clearly shown in these figures. The object of this pivoted bail is to provide means, which is a part of each chute, that can be utilized to detachably secure the chute to a similar chute. As shown in Fig. 1, the lower end of a chute may be placed into a similar chute beneath the bail, and the chutes thus coupled may be used when supported at their ends only. The length of the coupled chutes may be adjusted

or the angle of one chute relative to the other varied, as clearly illustrated in Fig. 1 of the drawings.

My chute as a whole is strong and durable.

5 The strips E serve to take much of the wear that usually comes on this part of the chute as the same is placed on the wagon-box or other support, while the bail affords a means of easily and quickly connecting two chutes  
10 where it is necessary to use the same. The pivoted bail may be turned down, and does not form an obstruction to the operator throwing the material into the same at the upper end.

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

1. A chute comprising an open-top body portion and a supporting-bail pivotally attached adjacent to one end of said body portion, said pivots being so disposed relatively to the body portion and the bail that said bail may be turned above the chute-body or below the same substantially as described.

25 2. A chute comprising a body portion having a flat bottom portion and sides substantially at right angles thereto, a bail having a portion parallel to said bottom portion and end portions, and pivots for securing said end portions of the bail to said sides of the body portion for the purpose described.

3. A chute comprising a body portion having a flat bottom portion and sides substantially at right angles thereto, a strengthening-band at one end thereof, and a bail having a portion parallel to said bottom portion and end portions, pivots for securing the end portions to said sides, said pivots being so disposed that said bail may be turned above the  
40 chute-body or below the same, substantially as described.

4. A chute comprising a body portion, a

strengthening-band around the end thereof, a hook having a portion thereof secured between said band and body portion, and a portion at right angles to the body portion, and a bail pivotally secured to the strengthening-band and chute-body, substantially as set forth.

5. A chute comprising a body portion, a strengthening-band around the end thereof, a hook having a portion thereof secured between said band and body portion and a portion at right angles thereto, a bail having a portion substantially parallel to the bottom of the chute and bent at its end and pivotally secured to said strengthening-band, substantially as set forth.

6. A chute comprising a body portion, a strengthening-band around the end thereof, a series of strips extending longitudinally of the body portion of the chute and secured beneath said band, a supplemental band extending transversely of said chute and securing the other end of said strips, substantially as set forth.

7. A chute comprising a body portion, a strengthening-band around the end thereof, a series of strips extending longitudinally of the body portion of the chute and secured beneath said band, a supplemental band extending transversely of said chute and securing the other end of said strips, a bail having a portion substantially parallel to the bottom of the chute and pivotally secured at its ends to the sides of said chute, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK L. SACKETT.

Witnesses:

CHAS. O. MASON,  
E. M. COREY.