

C. T. WOOTTEN.
LID CLAMP.
APPLICATION FILED DEC. 27, 1910.

997,644.

Patented July 11, 1911.

Fig. 1.

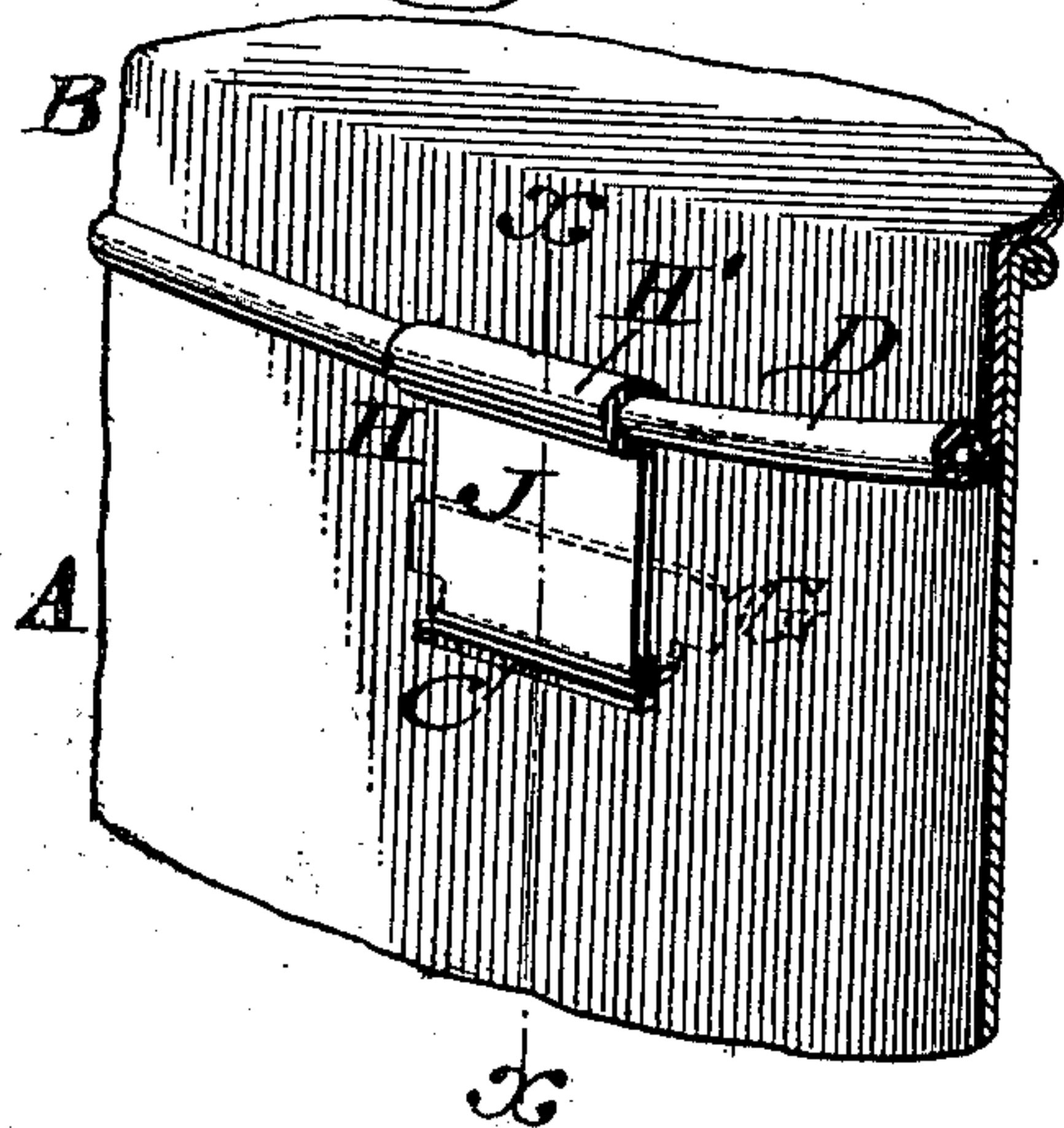


Fig. 3.

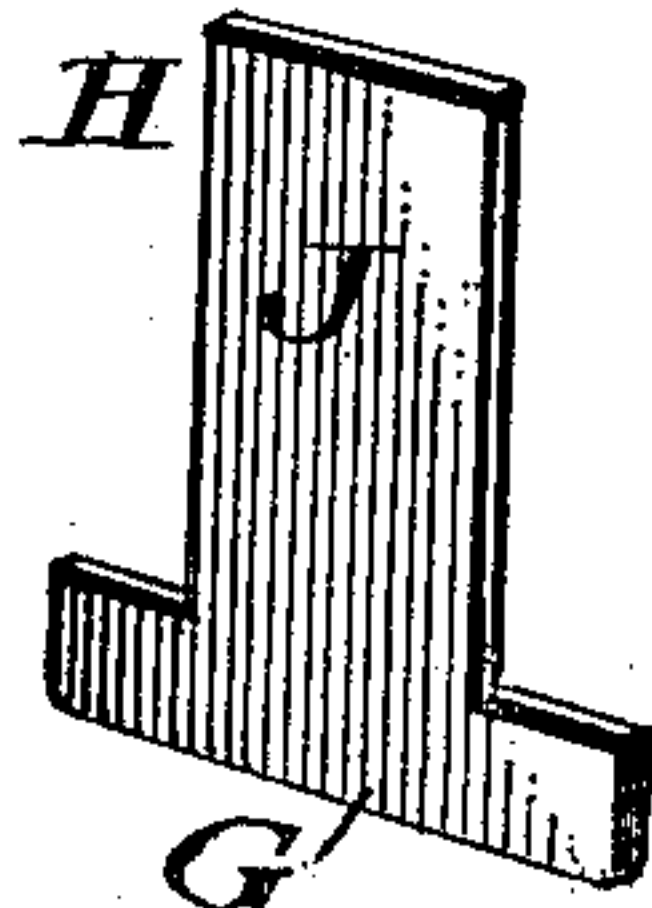


Fig. 4.

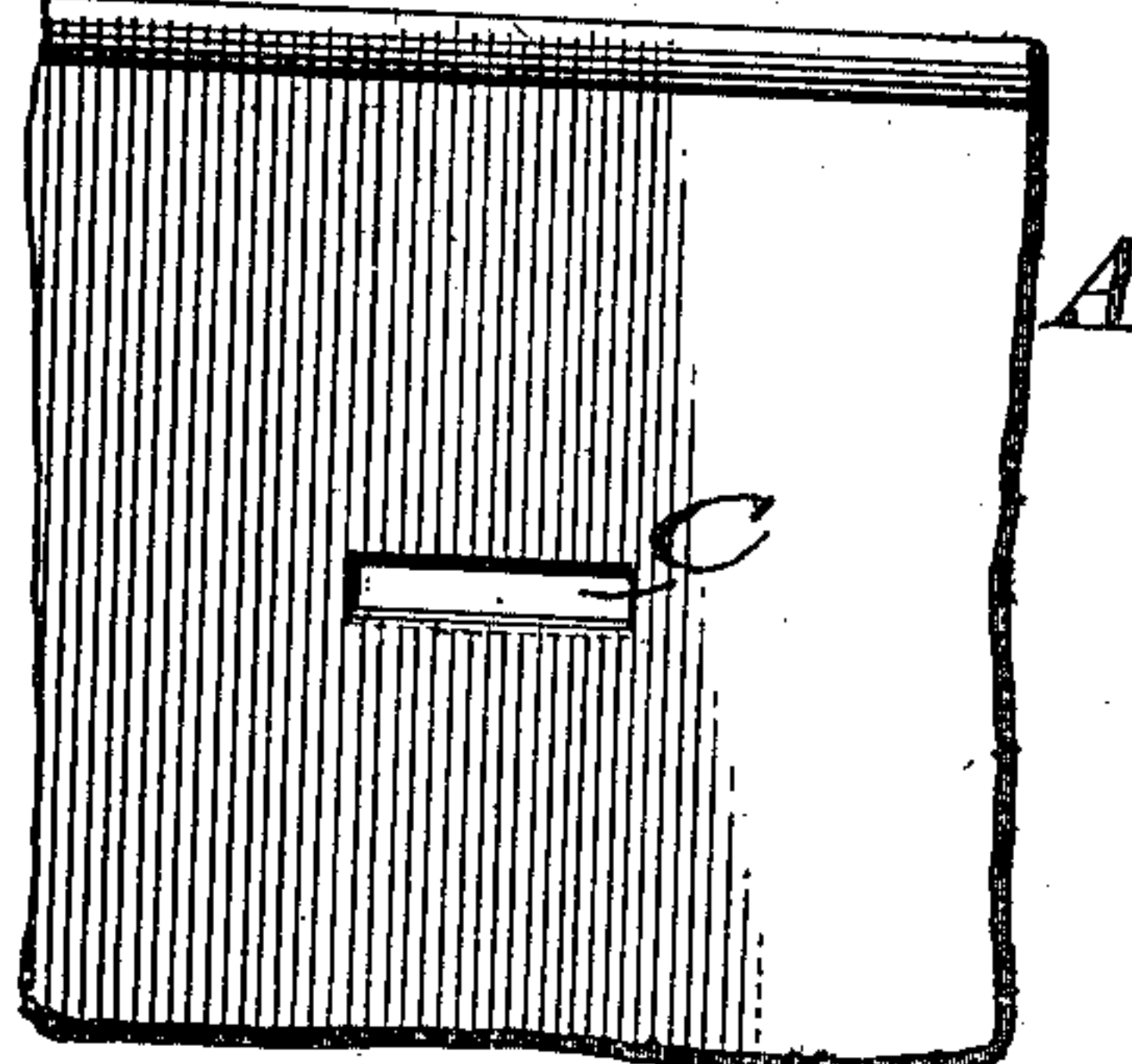


Fig. 5.

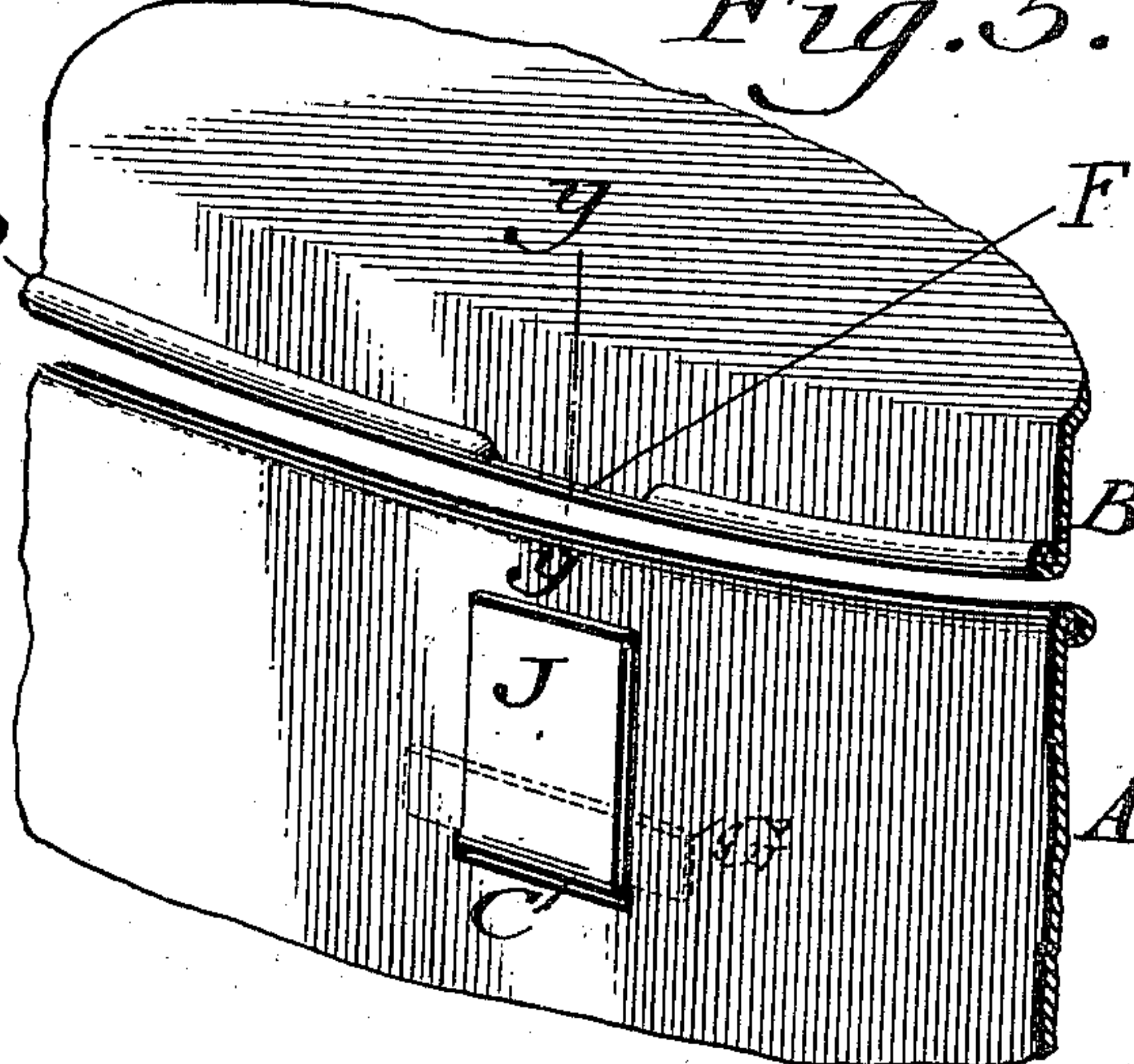


Fig. 8.

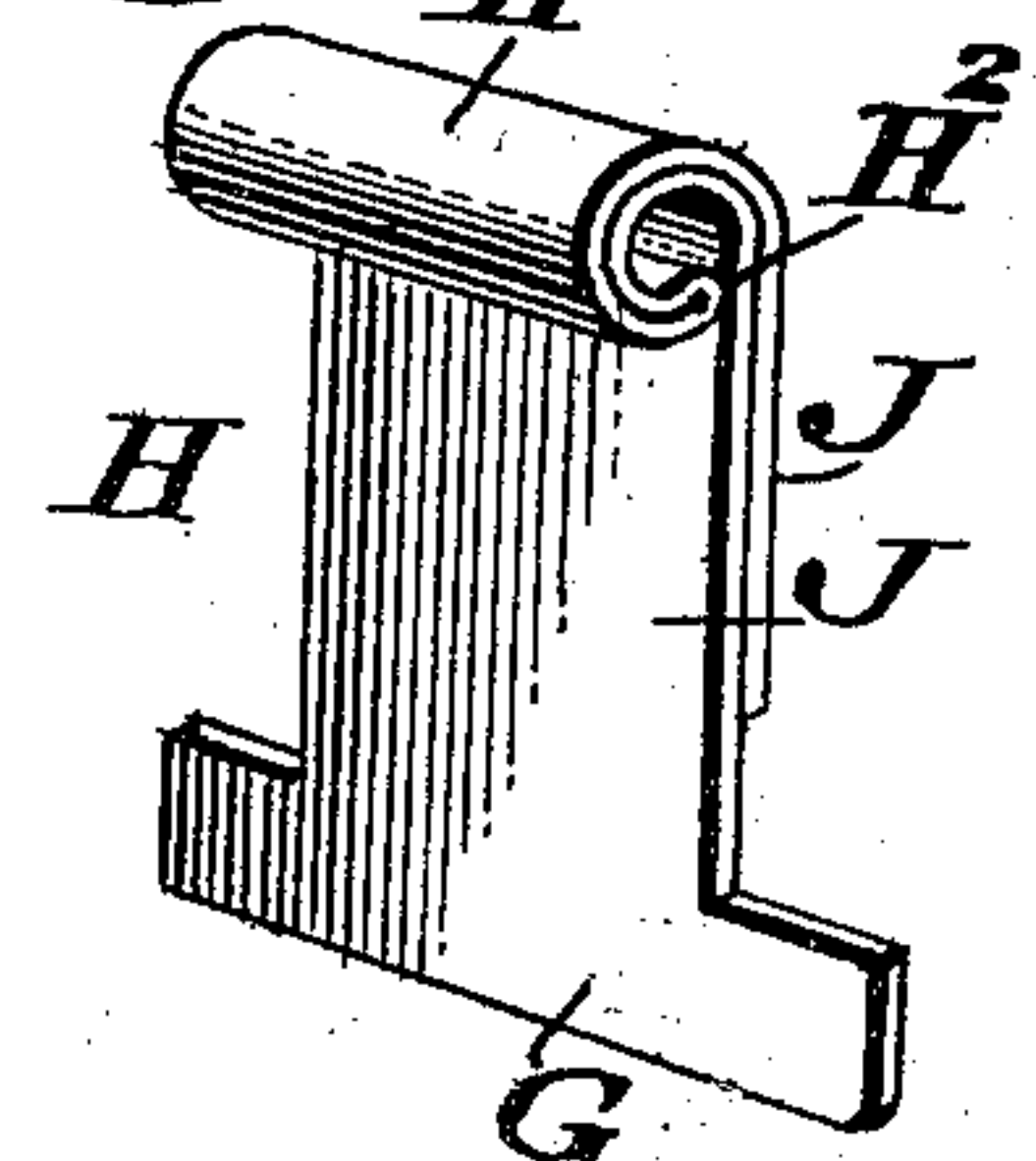
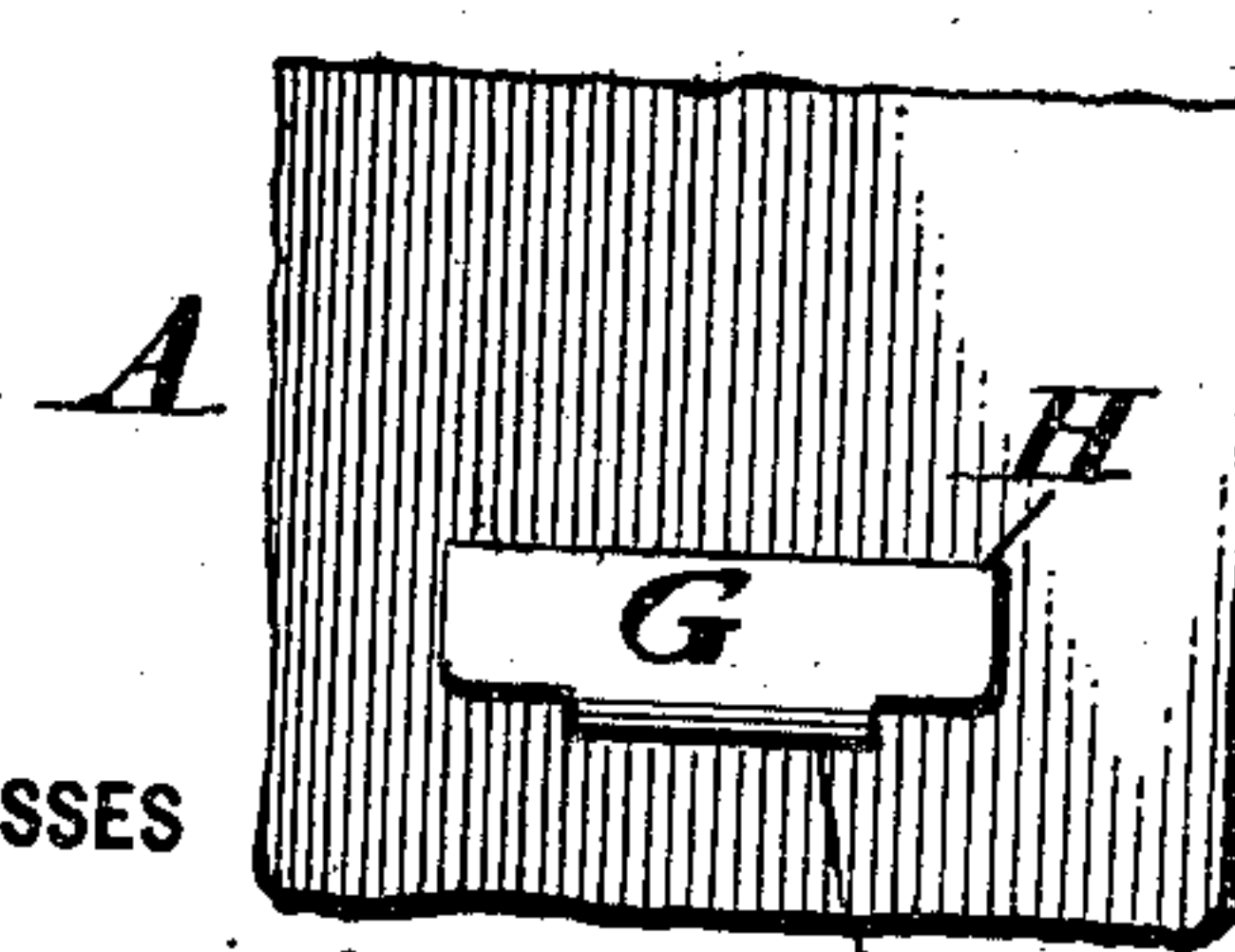


Fig. 7.



WITNESSES

P. F. Nagle.
L. Douville.

Fig. 2.

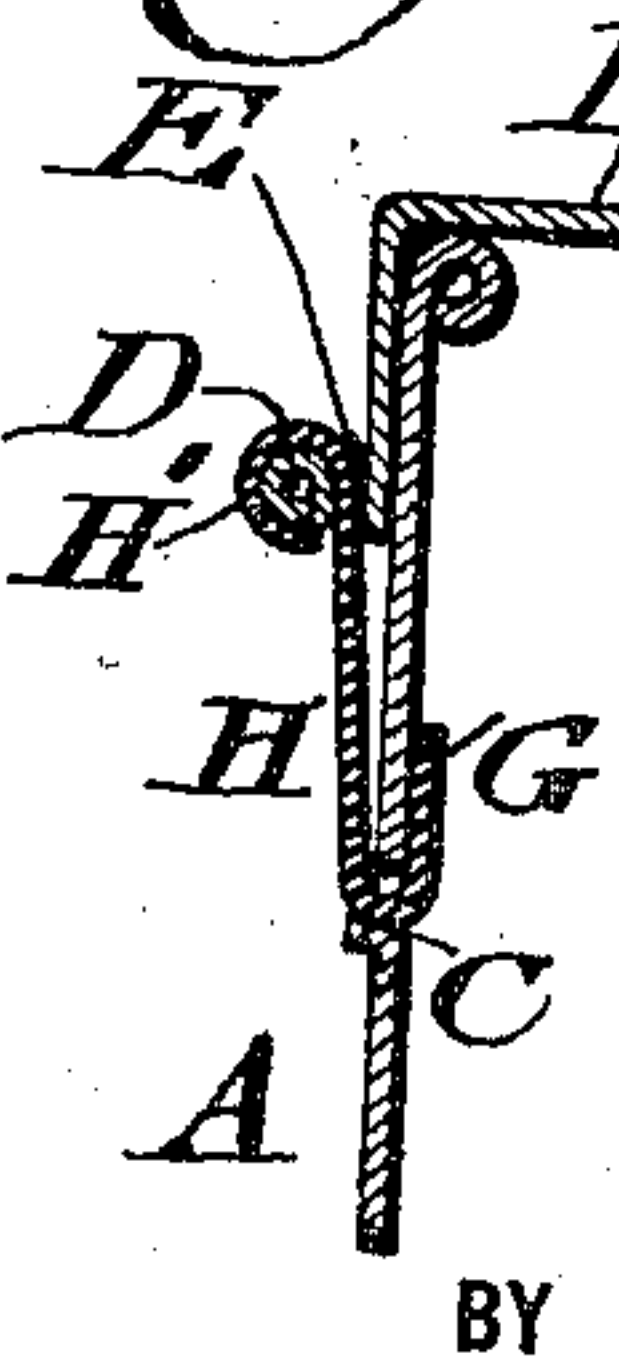


Fig. 6.



UNITED STATES PATENT OFFICE.

CHARLES T. WOOTTEN, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO MANUFACTURING COMPANY OF AMERICA, A CORPORATION OF PENNSYLVANIA.

LID-CLAMP.

997,644.

Specification of Letters Patent. Patented July 11, 1911.

Application filed December 27, 1910. Serial No. 599,497.

To all whom it may concern:

Be it known that I, CHARLES T. WOOTTEN, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Lid-Clamp, of which the following is a specification.

My invention consists of the novel construction of a clamp for securing a lid to the body of a can, pail, bucket or other receptacle, the same embodying an exterior member whose lower end is adapted to engage with said body and has a cross head rising from said end and occupying the interior of said body, producing a firm and reliable connection for said member not liable to be displaced from the body or improperly drawn out of the same, the upper end of said member being adapted to be engaged with said lid, as will be hereinafter described.

For the purpose of explaining my invention, the accompanying drawing illustrates a satisfactory reduction of the same to practice, but the important instrumentalities thereof may be varied, and so it is to be understood that the invention is not limited to the specific arrangement and organization shown and described.

Figure 1 represents a perspective view of a fastening clamp for a lid embodying my invention, the same being in position, including a portion of a lid and body of a receptacle to which the clamp is applied. Fig. 2 represents a vertical section thereof on line $x-x$ Fig. 1. Fig. 3 represents a perspective view of the clamp in normal condition. Fig. 4 represents a view of the exterior of a portion of the body of the receptacle to which the clamp is applied. Fig. 5 represents a perspective view of the exterior of portions of the body and lid of the receptacle and a portion of the clamp showing a step in the operation of applying the latter to said body. Fig. 6 represents a vertical section of a portion of the lid on line $y-y$ Fig. 5. Fig. 7 represents a view of the inside of a portion of the body of the lid showing the clamp in the position illustrated in Fig. 5. Fig. 8 represents a perspective view, on an enlarged scale, of a modified form of clamp detached.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings:—A designates

a portion of the body of a can, and B designates a portion of the lid thereof, both members being formed of sheet metal. In the side of the body is the opening or slot C, and in the base of the bead D of the lid above said slot is the vertical passage E, which latter is formed by cutting through said base or separating the bead from the adjacent portion F of the side of the lid, back of said bead. The lid may sometimes be formed with the slot intercepting the bead, as seen in Fig. 5.

H designates a clamp which is formed of sheet metal and T-shaped, the cross head G of the same being below, the shank J thereof being of such width that it may enter the slot C of the body and passage E of the lid. The lower end of said shank J is bent so as to embrace the upper wall of the slot C and interlock therewith. The cross head G rises from said bend on the interior of the body, it being wider than said slot, thus firmly attaching the clamp to the body A, preventing improper disconnection of said clamp in inward or outward direction, and retaining the clamp in its position regardless of its disconnection from the lid or displacement of the latter.

The normal condition of the clamp is shown in Fig. 3, but in order to apply it to the body, the cross head H is turned up as shown in Figs. 2 and 7, forming a hook, and the shank is passed through the slot C, and directed upwardly when the bend of the head H hooks upon the upper wall of the slot C, thus connecting the clamp with the body. The lid is then applied to the body and the upper end of the shank directed through the passage E, and curled or bent outwardly and downwardly over the portion of the bead above said passage, forming the nose H' which embraces the bead thus connecting the clamp with the lid and consequently securing the latter firmly to the body and reliably retaining it thereon.

In Fig. 8, I show the clamp H as formed of a piece of material doubled on itself so as to form the shank J, and the curl or nose H' of a plurality of lengths of material, and provide a bend H² on the outer end of said curl or nose, thus avoiding the presentation of a raw edge of material at said end, while said curl or nose and the adjacent portion of the shank are correspondingly strengthened.

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

1. In a clamp for a lid and body of a receptacle of the character stated, the body having a slot in the side thereof and the lid having a depending portion and a bead with a slot to receive the shank of a clamp member, a clamp member composed of a shank adapted to occupy the exterior of said body, a bend on the lower end of said shank adapted to interlock with the wall of said slot and a crosshead rising from said bend and adapted to occupy the interior of said body, the upper end of said shank being passed through said slot and engaging the bead and adapted to engage the depending portion of the lid.

2. In a clamp member of a receptacle of the character stated, a lid having a bead with a slot therethrough, a body having a slot in the side thereof in vertical alinement with the slot of the bead, a clamp member composed of a shank adapted to occupy the exterior of said body with its upper end extended through said slot and engaged with said bead, a bend on the lower end of said shank adapted to interlock with the wall of said slot, and a cross head rising from

said bend and adapted to occupy the interior of said body.

3. In a clamp for a lid and body of a receptacle of the character stated, the combination with a body and lid of a receptacle, of a shank having its lower end passed through an opening in the wall of said body and bent upwardly upon the interior thereof adapted to engage the side wall of said body, and a nose on the upper end thereof engageable with said lid, said nose and an adjacent portion of the shank being doubled on themselves.

4. In a clamp for a lid and body of a receptacle of the character stated, the combination with the body and lid of a receptacle, of a shank adapted to occupy the exterior of said body with its upper end extended through a portion of the lid and affixed to said lid and having a bend on its lower end adapted to pass through said body and interlock with the wall thereof, a cross head rising from said bend and occupying the interior of said body.

CHARLES T. WOOTTEN.

Witnesses:

JOHN A. WIEDERSHEIM,
N. BUSSINGER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."