

R. P. WHITE.
FASTENING DEVICE.
APPLICATION FILED DEC. 23, 1918.

1,298,128.

Patented Mar. 25, 1919.

Fig. 1.

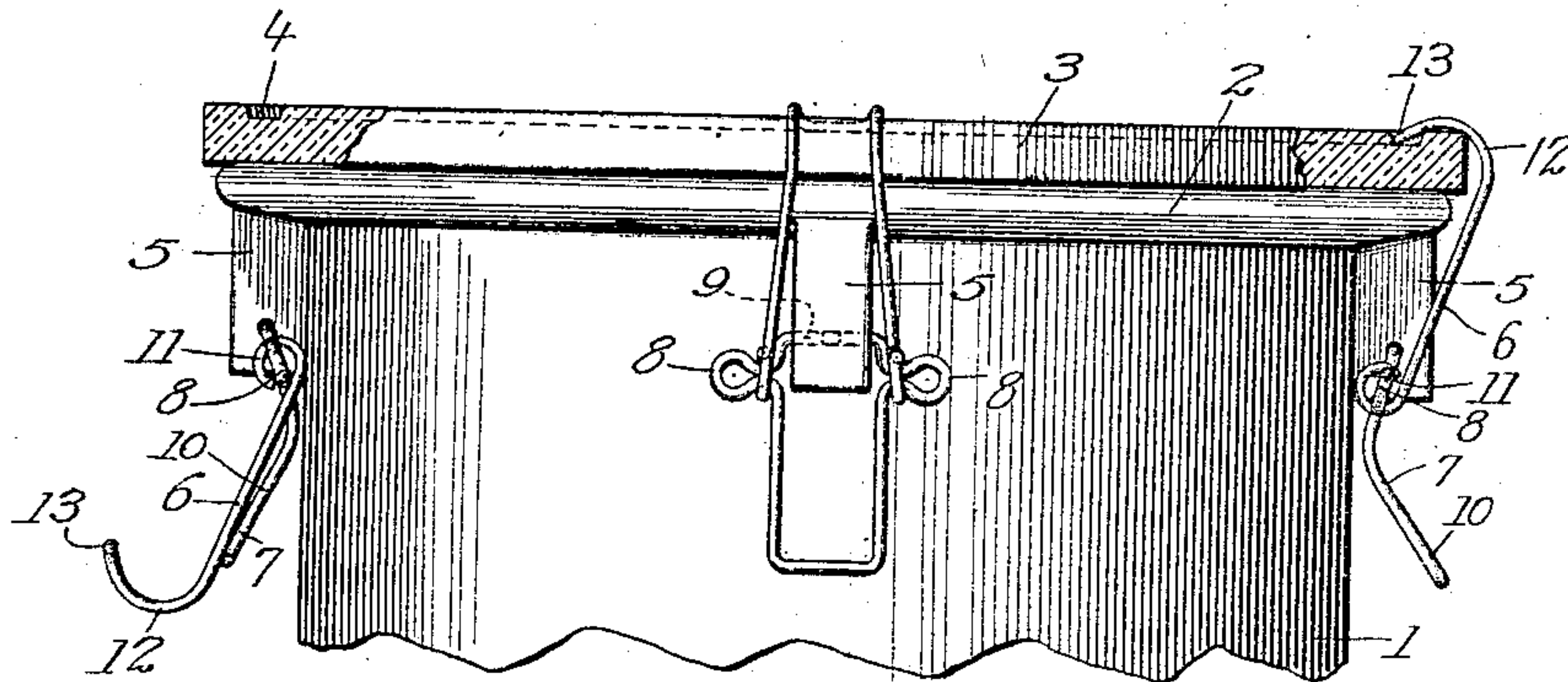


Fig. 2.

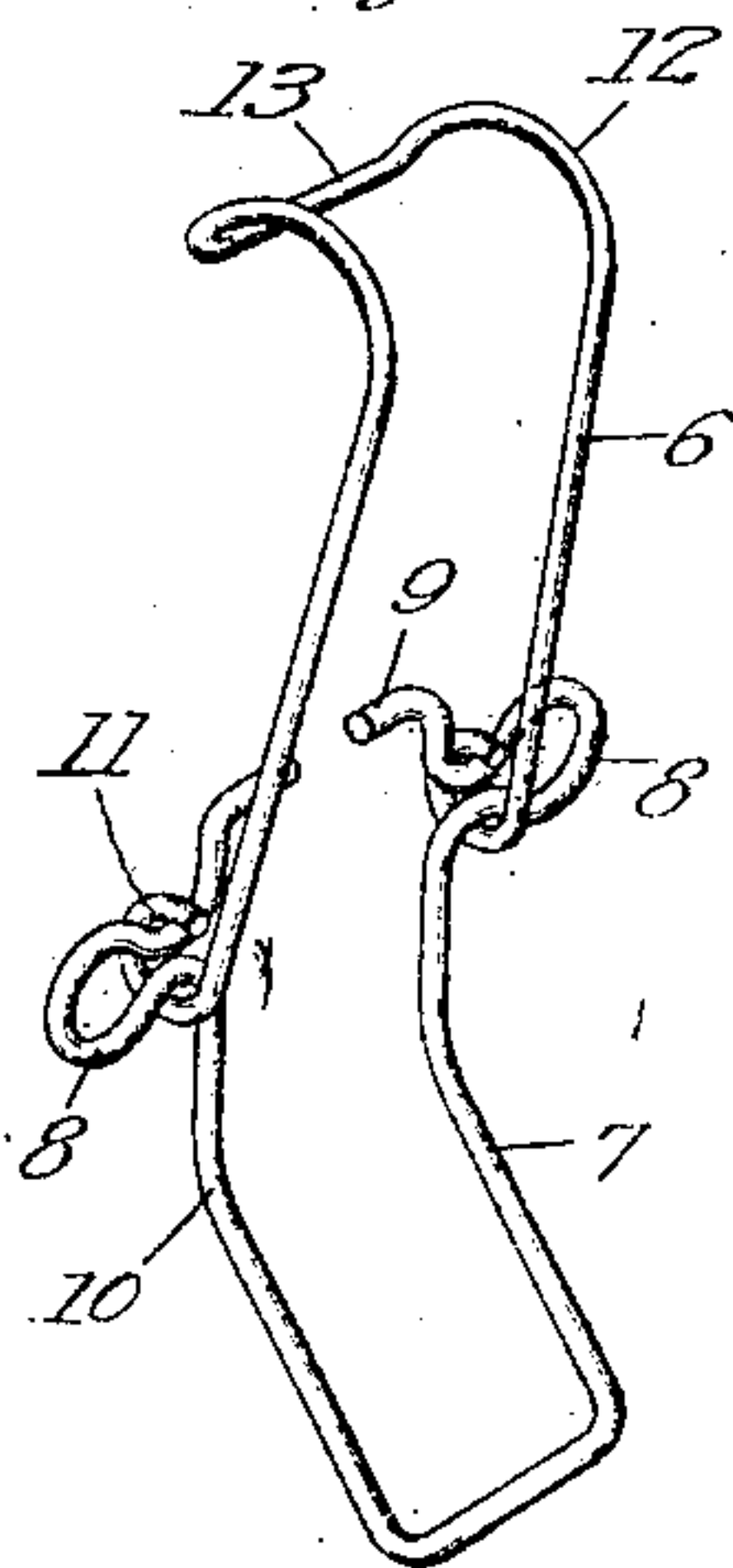


Fig. 3.

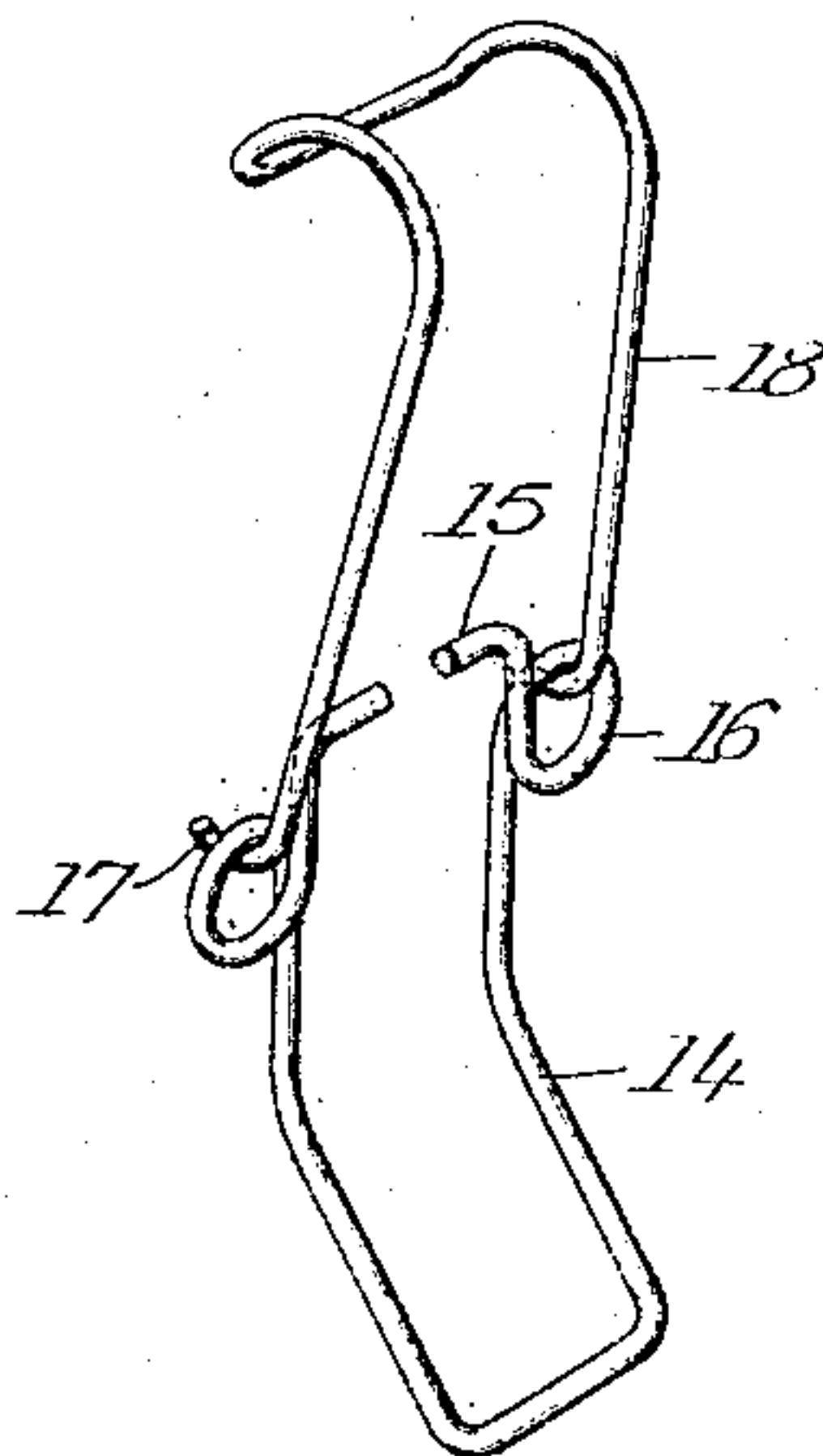


Fig. 4.

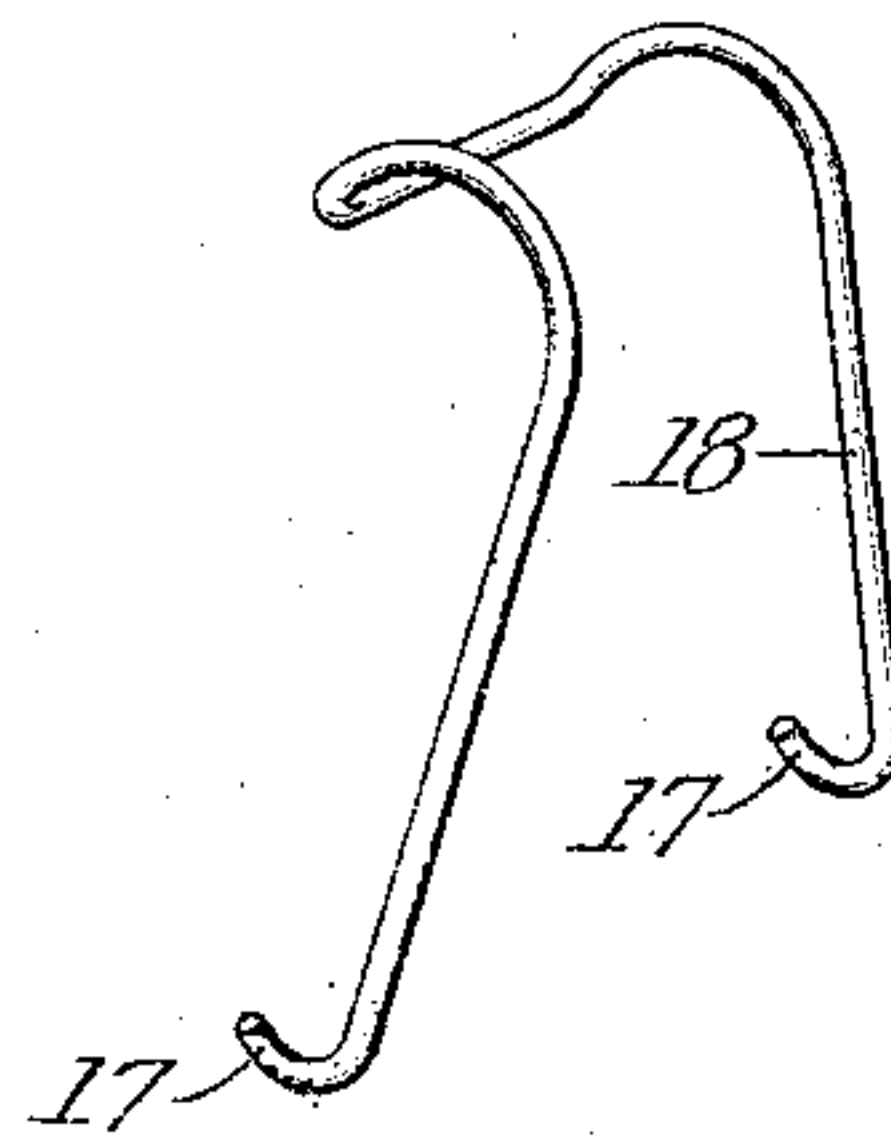
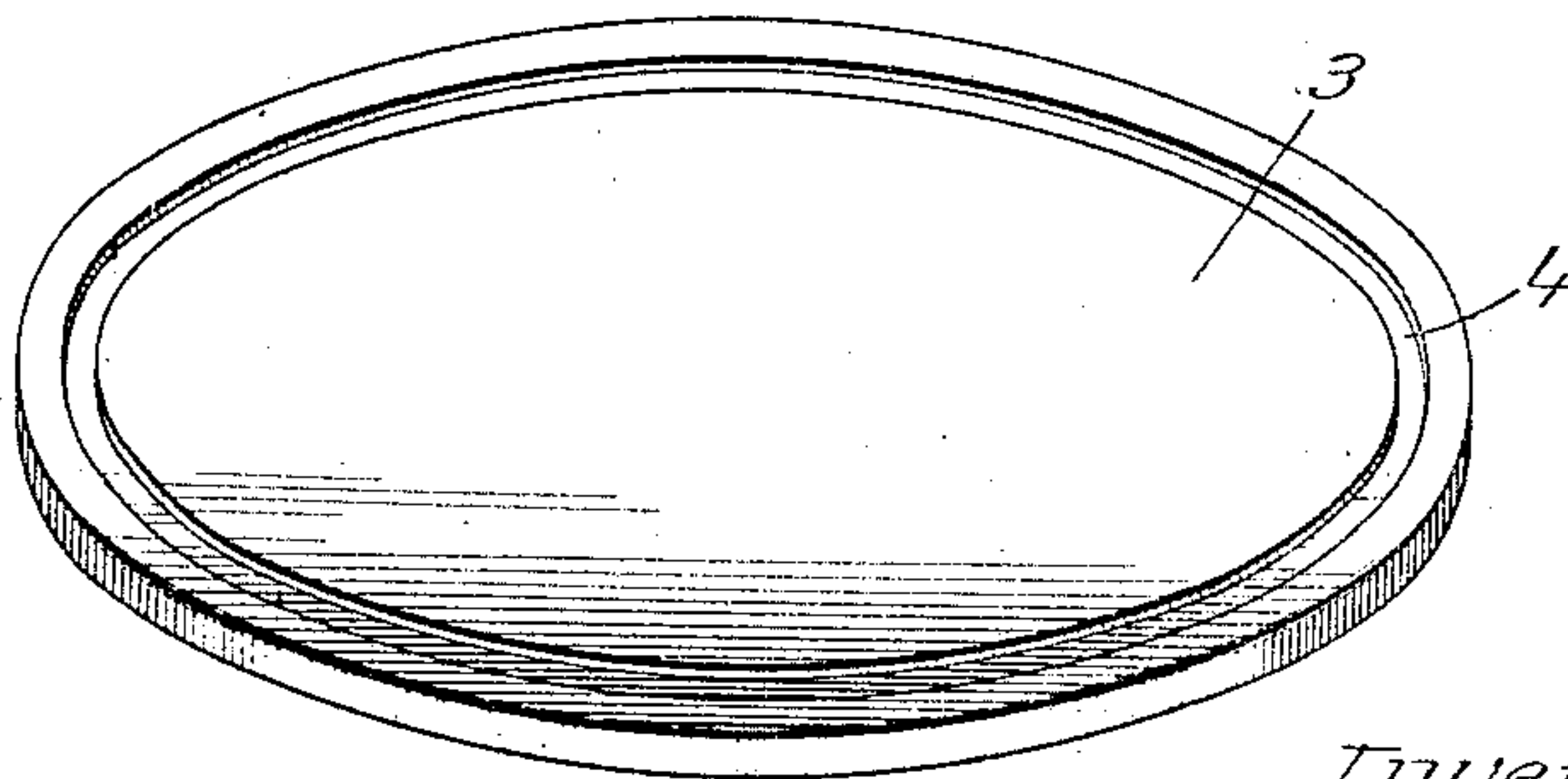


Fig. 5.



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FASTENING DEVICE.

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To all whom it may concern:

Be it known that I, RICHARD P. WHITE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fastening Devices, of which the following is a specification.

This invention relates to improvements in fastening devices and more particularly to a fastener or clamp for clamping or securing the lid or cover to a receptacle.

One of the objects of this invention is the provision of such a fastener for clamping down the cover of a jar or crock or similar receptacle, so that the same is securely held and may be readily released, the fastener being particularly adapted for use in connection with the receptacle made of earthen ware or vitreous material or glass or similar substance.

A further object of this invention is to provide such a fastener for securely clamping and holding the cover in position in a yielding or resilient manner.

To the accomplishment of the foregoing and such other objects as may hereinafter appear, my invention consists in the construction, combination and arrangement of parts hereinafter described and then sought to be defined in the appended claims, reference being had to the accompanying drawing forming a part hereof and which shows, merely for the purpose of illustrative disclosure, a preferred embodiment and also a modification, it being expressly understood, however, that various changes may be made in practice within the scope of the claims without digressing from my inventive idea.

In the drawings—

Figure 1 represents a side elevation of a receptacle supplied with a plurality of fasteners constructed to embody my invention, the fasteners to the right and in the middle being shown in clamping or fastening position and the fastener to the left being shown in release position.

Fig. 2 is a perspective view of the fastener illustrated in Fig. 1.

Fig. 3 is a perspective view of a slight modification of the fastening means, the parts being shown in the position assumed when in clamping or fastening position.

Fig. 4 is a detail of one of the fastening elements.

Fig. 5 is a perspective view of the top or cover for the receptacle.

This invention is particularly adapted for use with jars or receptacles having wide mouths, presenting a substantially unbroken interior surface and having a flat cover which is to be resiliently held in place on the mouth of said receptacle. This is most efficiently accomplished by resilient or yielding means and this feature is embodied in the construction of a fastening means according to my invention.

In Fig. 1 the numeral 1 designates the upper part of a crock or other receptacle which has a substantially straight inner surface and is provided with the peripheral bead or enlargement 2, on top of which the cover or lid 3 is adapted to rest and be clamped. This cover or lid 3 is provided with an annular groove or recess 4 which preferably extends entirely therearound near the edge thereof, as best shown in Fig. 5. I also provide a plurality of lugs or projections 5 at various positions around the upper part of the crock or receptacle which lugs or projections 5 are each provided with a suitable horizontal passage or aperture to receive parts of the fastening means hereinafter referred to.

The preferred form of fastener or clamp is illustrated in Fig. 2 of the drawing and shown applied in use in different positions in Fig. 1 of the drawings. It includes generally the clamping member proper 6 and the finger actuating member or lever 7. This finger actuating member 7 is in the general form of a loop, as shown, and bent at each side near the top end thereof to provide the loops 8. The free ends of the member are bent at right angles toward each other, as indicated at 9. It is these free end portions which are positioned in the opening or aperture through the lug 5, whereby the fastener or clamp is attached in proper position to the crock or receptacle. It is to be noted that this finger actuating member is bent at an intermediate point, as at 10, so that the lower end part thereof extends away from the side of the crock or receptacle in a position convenient for manipulation.

The clamp or fastening member proper 6 is also in the form of a loop, having its free ends bent around the reduced part of the loops or eyes 8, as at 11. The legs of this

clamping or fastener member diverge downwardly, as clearly shown in connection with the central fastener shown in Fig. 1, of the drawing. The upper part of this clamping member is curved over, as at 12, and has a substantially straight engaging bar 13 which actually forms the end of the loop. This curved end part 12 is adapted to fit over the edge of the crotch or receptacle and also the edge of the cover therefor so that the straight arm or bar 13 will engage the groove or recess in the cover or lid.

The parts are preferably made of wire or similar suitable resilient material, because it is essential that the clamp or fastener should have a resilient or holding action on the parts.

In operating the fastener the clamping member 6 is moved into engagement with the groove, as shown to the right in Fig. 1, at which time the loop 8 is in substantially the same horizontal plane as the free end 9 of the finger actuating member, or in other words, this finger actuating member extends in a substantially horizontal direction, when the clamping member engages the cover and before the parts are moved to locking or clamping position. The operator then presses down on the same, the leverage causing a considerable strain on the clamping or fastening member 6 so that it gives or yields slightly, due to the resilient nature of the material of which it is made and therefore holds a cover or lid on top of the receptacle in a resilient or yielding manner. At the end of the fastening or clamping movement the loops or eyes 8 are within a line drawn through the point of bearing of the bar 13 on the top of the cover and the connection of the free ends 9 with the stud 5 so that the parts are securely locked against accidental release. As a matter of fact this part forms a toggle connection and moving the finger actuating member upward from the fastening position shown to the right in Fig. 1, will break the toggle and release the part.

A slight modification is shown in Fig. 3 of the drawing wherein the finger actuating member 14 is provided with similar free ends 15 but has the coiled eyes 16 instead of the loops 8, as shown in Fig. 2. Through these coiled eyes 16 are extended the shorter bent end 17 of the clamp or fastening member proper, 18. The parts are otherwise of the same construction and operate in the same manner, as previously described.

It is to be noted that due to the diverging position of the arms of the clamping member that when the clamp or clasp is in clamped position, an inward pressure will be exerted against the sides of the finger actuating member, tending to hold the free ends 9 and 15 in their proper position in the aperture or passage within the stud or projection 5 on the side of the crotch, jar or

other receptacle. The curve or bend 12 in the clamping member is sufficient to provide for variation in the size and fit of the cover or lid on the receptacle.

Having described my invention, what I claim is:—

1. A fastener for clamping a cover on a receptacle, including in combination with the receptacle, a cover therefor, a stud or projection provided on the side of the receptacle near the top thereof, said stud or projection having an opening therethrough, said fastener including a finger actuated part and a clamping part adapted to engage the cover, said finger actuating part being in the form of a loop, having its free ends spaced apart and extending toward each other and positioned in the passage within the stud or projection, said finger actuated member also having means on each side thereof near the free end for engagement with the free ends of the clamping member, said finger actuated member being bent at an intermediate point so that the lower end thereof stands away from the sides of the receptacle, said clamping member being in the form of a loop, having divergent legs terminating in free ends which are bent to engage the means on the sides of the finger actuated member, the loop part of said clamping member being bent so as to fit over the top edge of the receptacle and the edge of the cover, the bearing points being so arranged as to form a toggle joint which is locked when the finger actuated lever is depressed and the clamping member in clamping position.

2. A fastener for clamping a cover on a receptacle, including in combination with a receptacle, a cover therefor, said receptacle having a lug on the side thereof near the top, said lug having a passage therethrough, said fastener including a finger actuating lever and a clamping member, said clamping member being in the form of a loop having its free ends extending downward and formed for engagement with part of said finger actuating lever, the upper end of said clamping member being bent so as to fit over the top of said receptacle and the edge of said cover and having its end in the form of a comparatively straight bar, said finger actuating lever being in the form of a loop having its free ends extending toward each other and positioned in the passage in the lug, said finger actuating lever also having extensions on the side thereof for engagement by the free ends of the clamping member, said finger actuating member also having its lower part bent at an angle to the upper part so as to extend away from the sides of the receptacle, the connections between the free ends of the clamping member and the projections on the finger actuating member being located within a line through

the point of engagement of the clamping member with the cover and the leaning of the free ends of the finger actuating lever in the stud when the parts are in clamping
5 position.

3. A fastener for clamping a cover on a receptacle, including in combination with a receptacle, a cover therefor, having an annular depression in its top surface near its
10 edge, said receptacle having a lug on the side thereof near the top, said lug having a recess on each side, said fastener including a finger actuating lever and a clamping member, said clamping member being in the form
15 of a loop having its free ends extending downward and formed for engagement with part of said finger actuating lever, the upper end of said clamping member being bent so as to fit over the top of said receptacle and

the edge of said cover and having its end in the form of a comparatively straight bar, adapted to enter said groove in the cover, said finger actuating lever being in the form of a loop having its free ends extending toward each other and positioned in the recesses in the lug, said finger actuating lever also having extensions on the side thereof for engagement by the free ends of the clamping member, said finger actuating member also having its lower part bent at an angle to the upper part so as to extend away from the sides of the receptacle, the connections between the free ends of the clamping member and the projections on the finger actuating member.
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In testimony whereof I hereunto subscribe my name.

RICHARD P. WHITE.

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