

No. 677,622.

Patented July 2, 1901.

N. BARNEY.
COVER FOR CASES, &c.
(Application filed Dec. 6, 1900.)

(No Model.)

Fig. 1

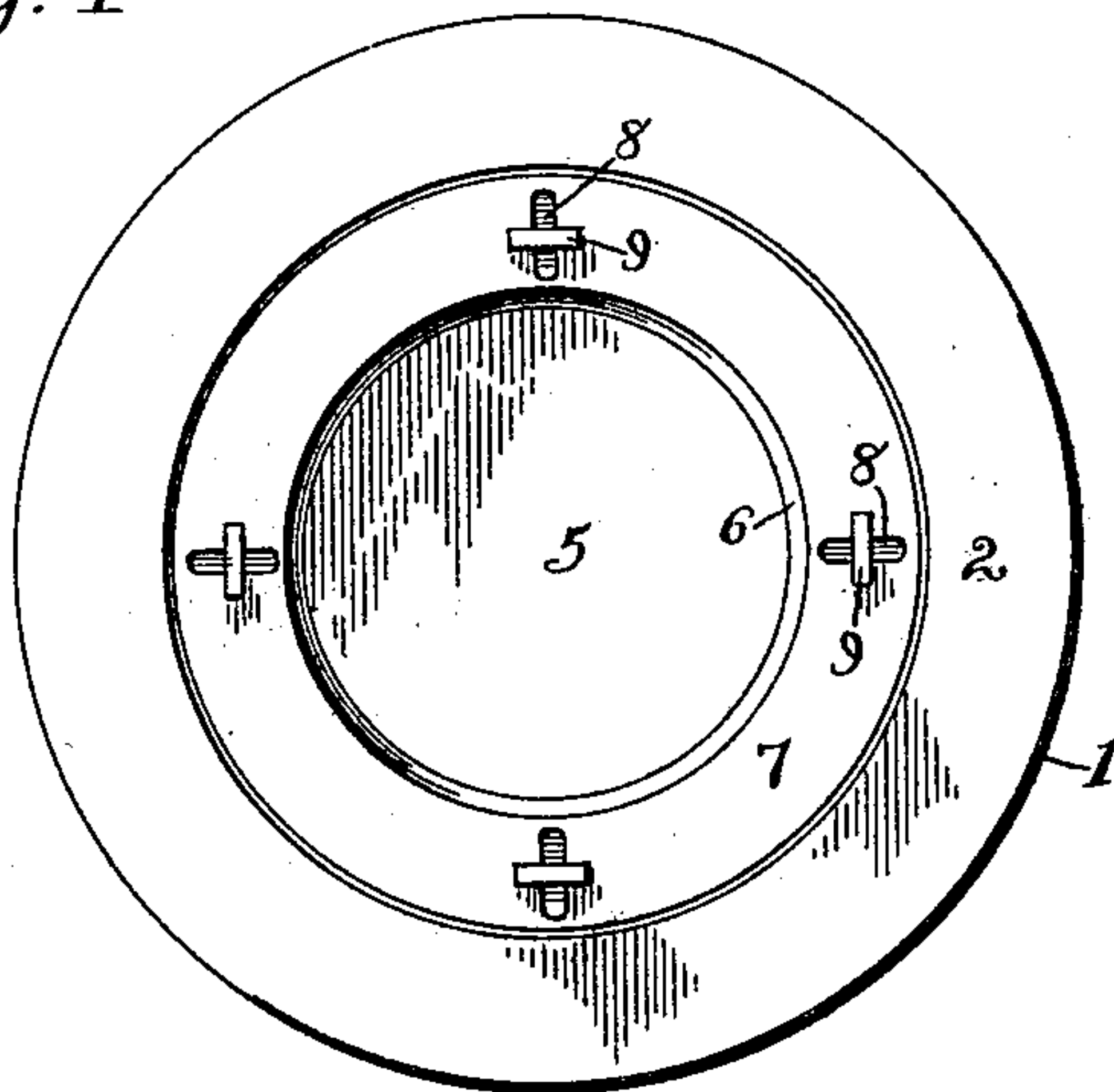


Fig. 2

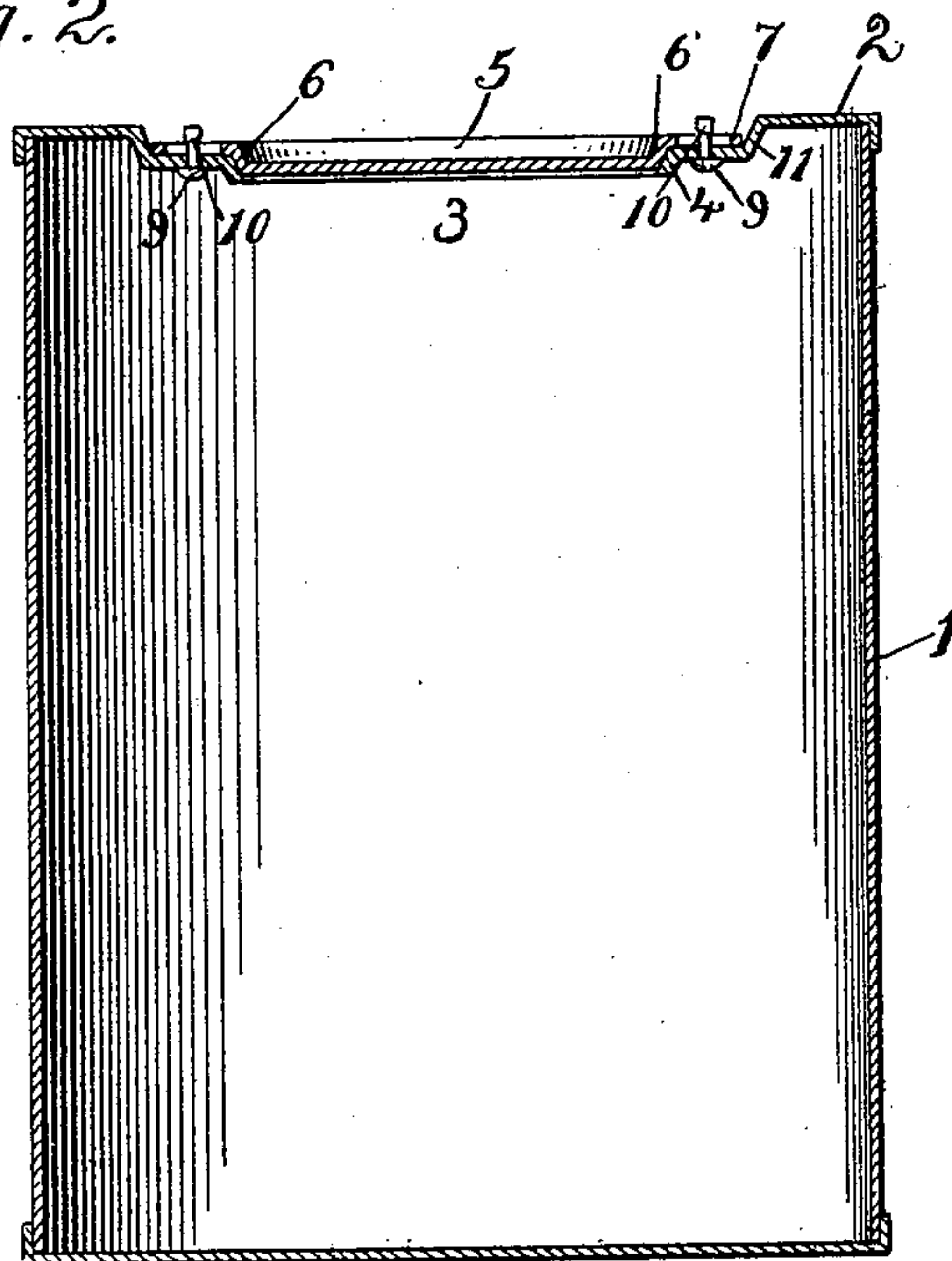
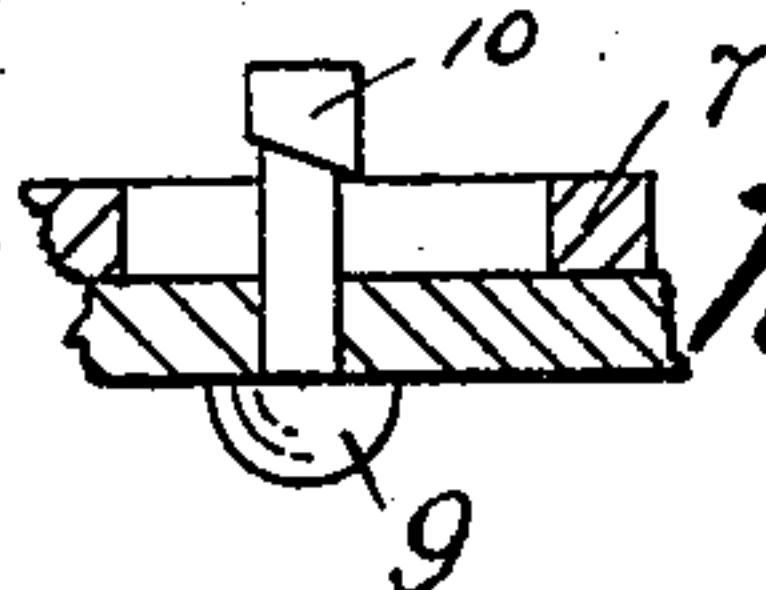


Fig. 3



WITNESSES:

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COVER FOR CASES, &c.

SPECIFICATION forming part of Letters Patent No. 677,622, dated July 2, 1901.

Application filed December 6, 1900. Serial No. 38,928. (No model.)

To all whom it may concern:

Be it known that I, NATHAN BARNEY, a citizen of the United States, residing at New York, in the county of Kings and State of New York, have invented certain new and useful Improvements in Covers for Cases, &c., of which the following is a full, clear, and exact specification.

This invention relates to covers for cans, cases, packages, and the like; and one object is to provide a simple and efficient cover which can be readily and quickly fastened in place and removed.

A further object is to provide such a cover suitable for attachment to a sheet-metal can, which cover shall be substantially air-tight when secured in place, easily removable, and have no parts projecting above the top of the can, thus permitting the top of the can, with the cover attached, to be substantially flat.

A still further object of the invention is to construct a case and cover of sheet metal which shall be light in weight and possess strength to withstand rough usage and rigidity to maintain the tight closure.

The invention also comprises other features of advantage, which will be referred to hereinafter.

In the accompanying drawings, Figure 1 is a top view of a case, with cover attached, embodying my invention. Fig. 2 is a sectional view of the case and cover shown in Fig. 1, and Fig. 3 is an enlarged detail view.

Referring more particularly to the drawings, 1 represents the case or package, which may be of any suitable size, shape, or material. In the present instance I have shown a cylindrical sheet-metal case; but it will be understood that it may be square or of other shape and made of other material, if preferred. In the top 2 of the case is formed the opening 3, having the beveled or tapered sides 4, which serve both as a seating for the cover and as a reinforcing or strengthening rib for the top of the can, preventing the same from losing its shape. The cover 5 comprises, preferably, a sheet of stamped or bent metal, having the tapered part 6 fitting snugly into the opening 3 and against the tapered sides 4, and the flange 7 fitting upon the top of the cover. Slots 8 are formed in the flange 7 at suitable intervals, and at points correspond-

ing to the slots the turn-buttons 9 are swiveled in the top 2. The buttons 9 project through the slots 8 and have projecting shoulders, which when the buttons are turned at right angles to the slots engage the flange 7 of the cover and clamp the same to the top of the case, at the same time forcing the tapered part 6 tightly into the opening 3 and against the sides 4. For the purpose of facilitating the turning of the buttons 9 and more tightly clamping the cover to the top of the case the under sides of the shoulders of the buttons may be beveled, as at 10 in Fig. 2. With such construction the bevel may be so adjusted that when the buttons are partly turned the projecting part 6 of the cover 5 is pressed against the tapered rim 4, and further turning of the buttons will more tightly force the projecting part of the cover into the top of the case and at the same time clamp the flange 7 to the top. In order that there may be no parts projecting above the top of the can, that portion of the top containing the opening 3 and adapted to receive the flange 7 should be depressed, if preferred, by an inwardly-turned rib 11, whereby the tops of the turn-buttons will lie below the top 2. The peripheral portion of the top bounding the said depressed portion and extending inwardly from the can-wall serves to strengthen the projecting wall portion.

The cover above described is secured in place by first turning the turn-buttons so that they each lie in line with the respective slots, and then placing the cover in position, the slots fitting over the buttons. The latter are then turned transverse to the slots, which forces the cover into the opening and against the tapered rim 4 and also clamps the flange 7 tightly against the top 2. The cover is removed by turning the buttons into line with the slots and then lifting the cover.

It will be seen that with the construction above described a practically air and water tight closure of the case is effected and that the case and cover may be formed of this sheet metal and nevertheless be sufficiently strong and unyielding to preserve the tight closure required and also withstand the usual rough handling to which the cases are subject.

The construction above described may be modified without departing from the under-

lying invention, and I therefore desire it to be understood that I do not herein limit myself to the precise construction shown.

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

1. The combination with a case of sheet metal, of an opening therein, a tapered rim surrounding said opening, a sheet-metal cover
10 having a tapered projecting portion, said tapered projecting portion being adapted to fit into said opening and against said rim, and turn-buttons connected to the can-top and having shoulders beveled upon their under
15 faces, said shoulders being adapted to extend upon the cover, whereby said turn-buttons serve to wedge together the tapered rim of the top and the tapered projecting portion of the cover; substantially as described.

20 2. In a sheet-metal can, a top having a peripheral portion extending inwardly from the can-walls and a depressed portion bounded by said peripheral portion, said depressed portion having an opening therein, an in-

wardly and downwardly tapering rim sur- 25
rounding said opening, in combination with a cover having a tapering projecting portion to fit against said tapering rim and a slotted flange bounding said projecting portion and adapted to lie upon the depressed portion of
30 the can-top, and turn-buttons swiveled in said depressed portion of the top and adapted to project through the slots of the cover when the parts are assembled, said turn-buttons having shoulders beveled upon their under
35 sides, whereby the cover can be firmly clamped upon the can-top with the projecting cover portion wedged against the rim of the top, the said cover and turn-buttons not projecting above the top surface of said can-
40 top; substantially as described.

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

NATHAN BARNEY.

Witnesses:

C. V. EDWARDS,
E. H. TUCKER.