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E. M. HALLBAUER.
SHEET METAL DISPLAY CAN OR BOX.

APPLICATION FILED SEPT. 25, 1905.

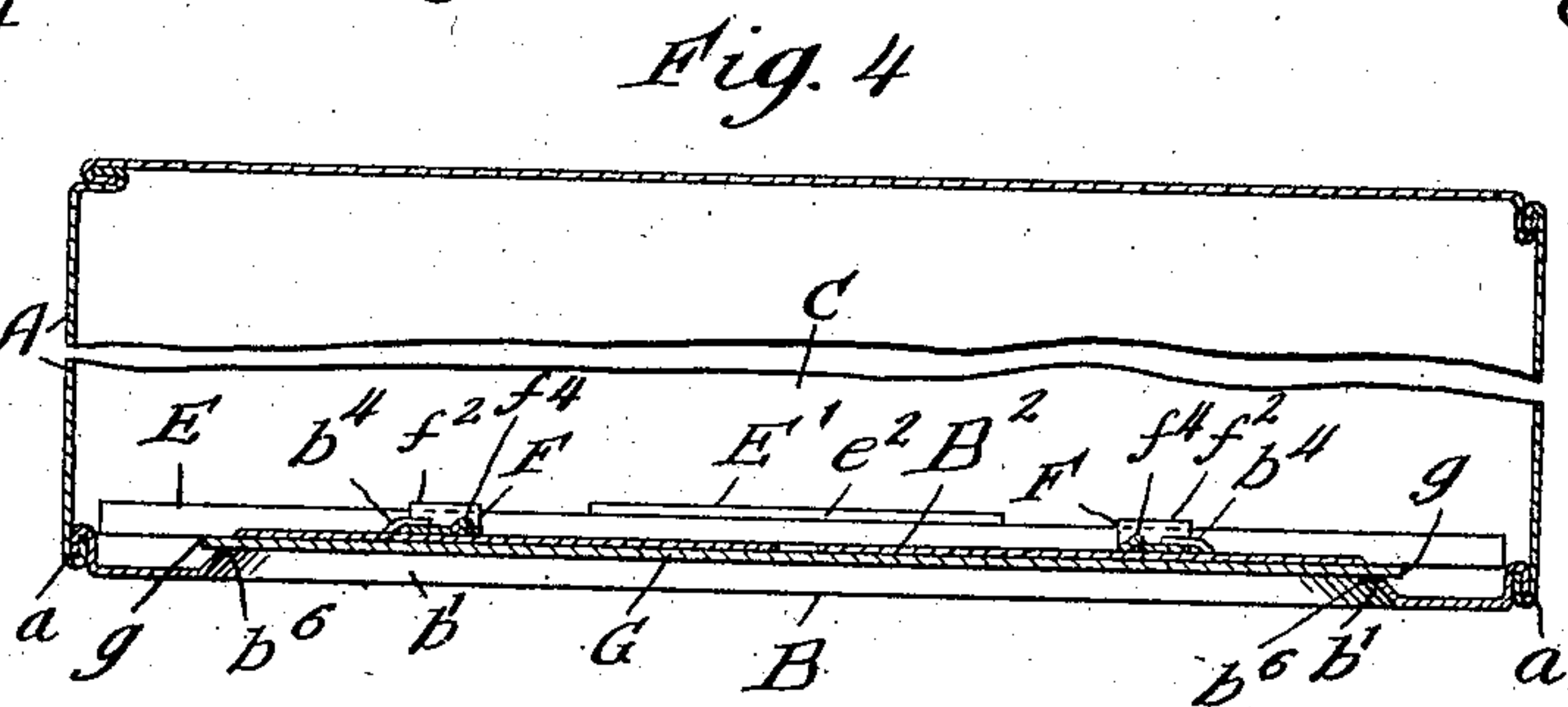
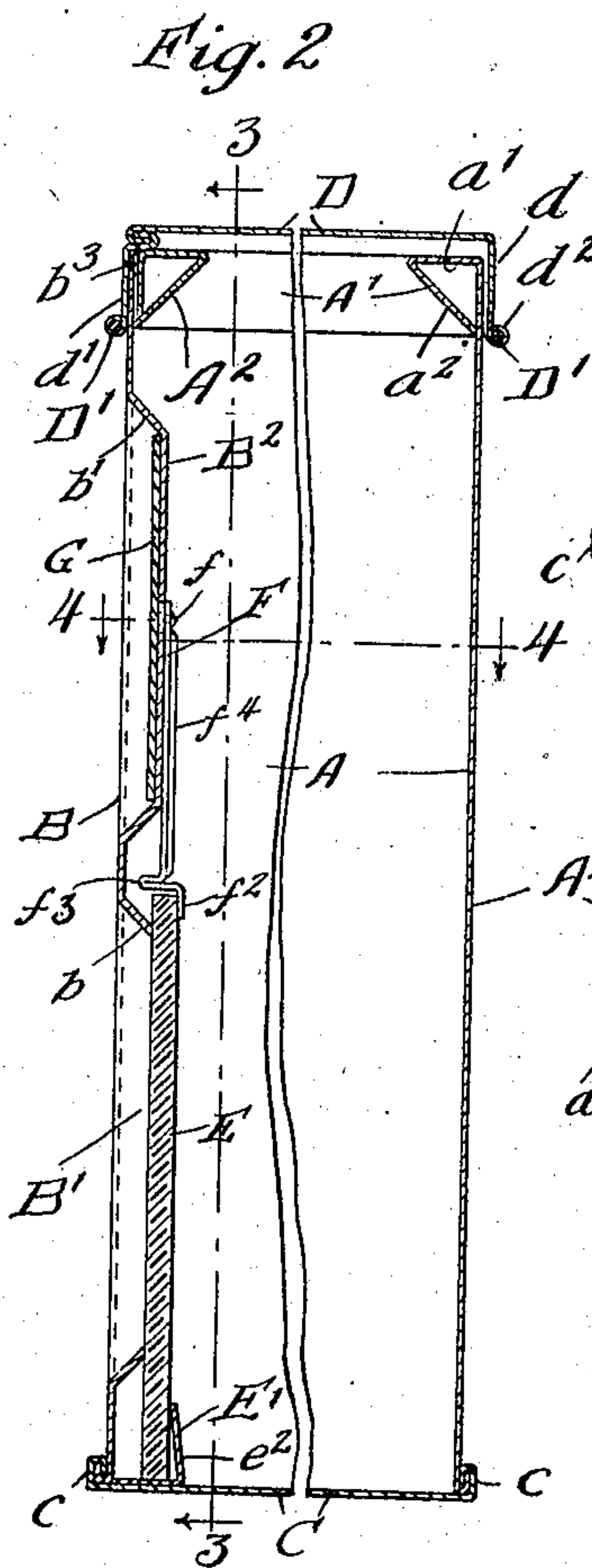
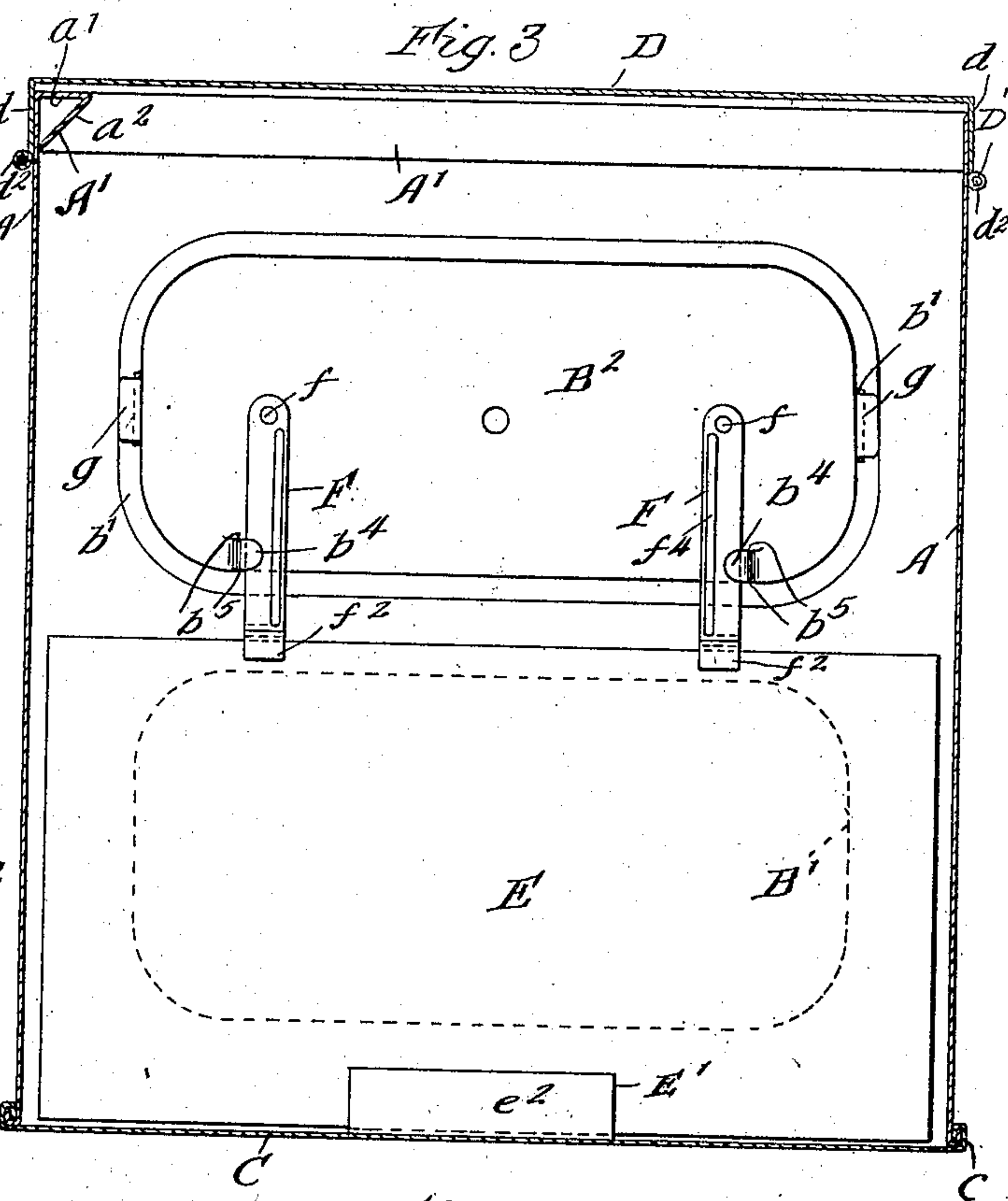
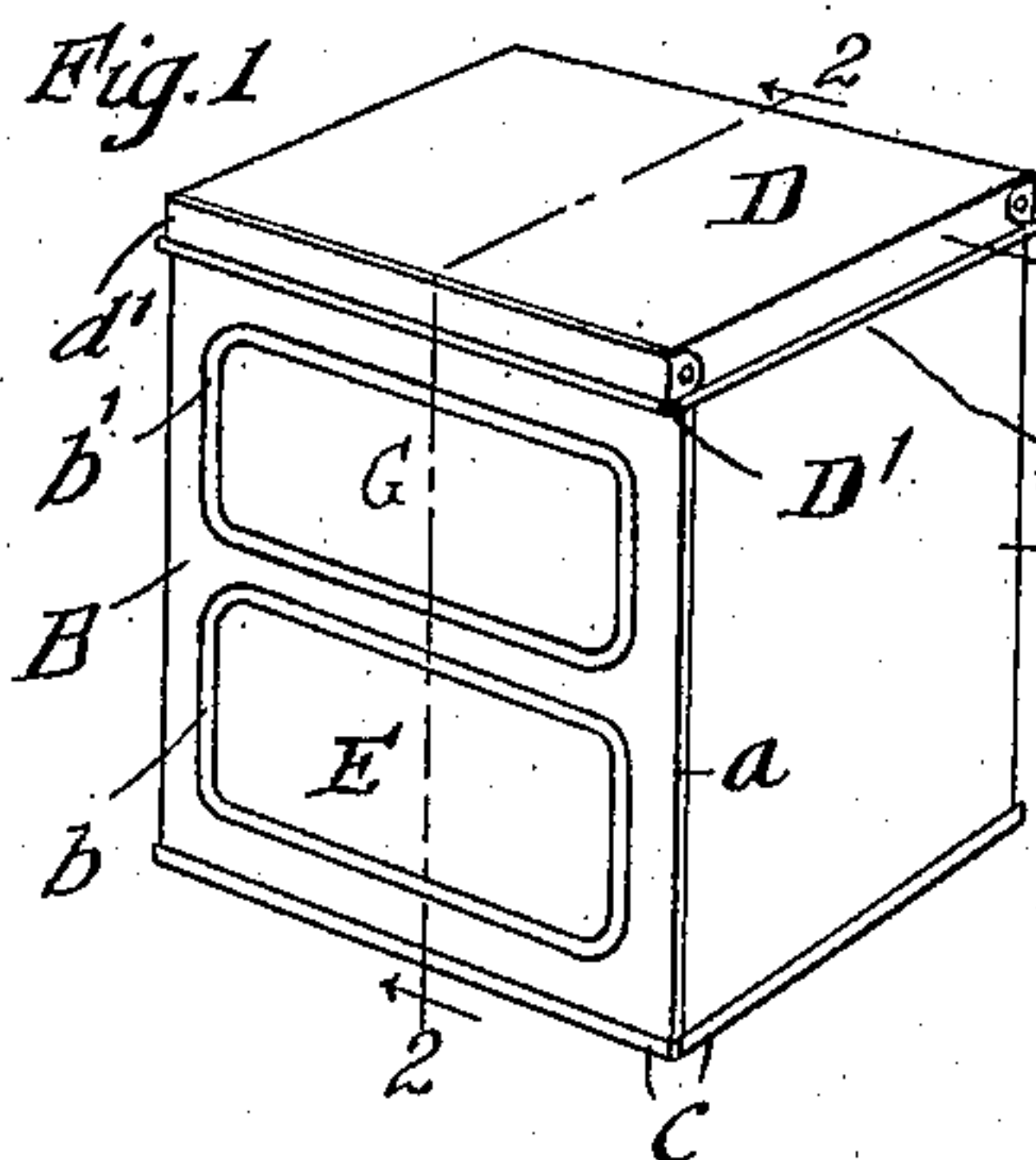


Fig. 6

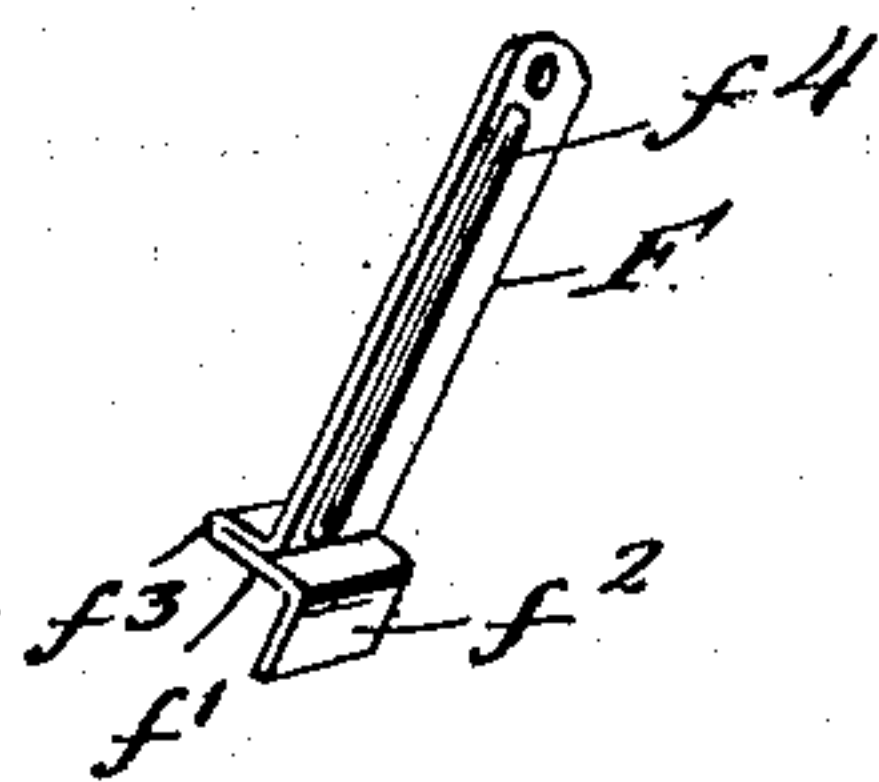
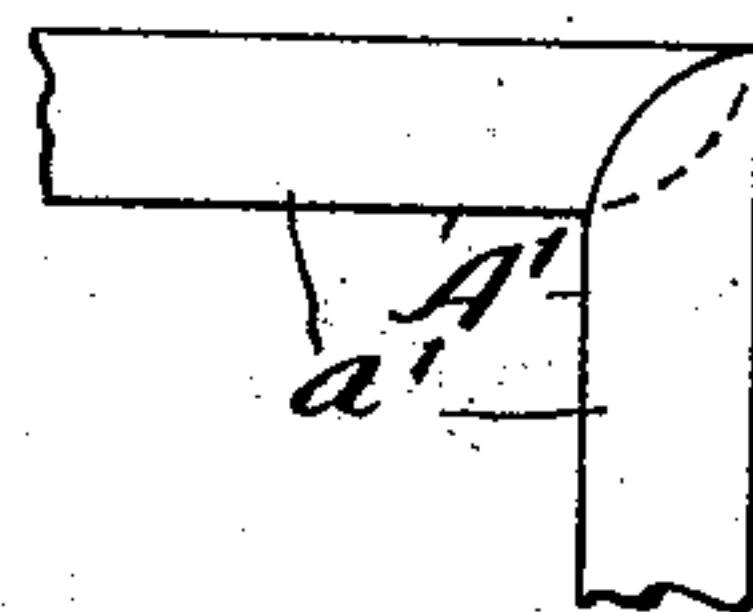


Fig. 5



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UNITED STATES PATENT OFFICE.

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SHEET-METAL DISPLAY CAN OR BOX.

No. 815,957.

Specification of Letters Patent.

Patented March 27, 1906.

Application filed September 25, 1905. Serial No. 279,906.

To all whom it may concern:

Be it known that I, ERNST MORITZ HALLBAUER, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Sheet-Metal Display Cans or Boxes, of which the following is a specification.

My invention relates to improvements in sheet-metal display cans or boxes for containing, shipping, storing, and displaying for sale crackers, bakery goods, and other like articles, the same being large rectangular cans usually some ten or twelve inches in each dimension and having a bottom, three sides, and cover ordinarily made of tin-plate and the front plate of sheet-brass or other burnishable metal, so that when the can is returned to the bakery after its contents have been sold to be refilled with fresh crackers the brass front plate of the can may be put under a buffing-wheel and reburnished to give the can a new and bright appearance, suitable for containing fresh goods with which it is to be refilled; and my invention relates more particularly to that kind or class of returnable brass-front display-cans which are provided with a removable color-printed sheet-metal sign-plate above the glass plate or display-opening, so that the sheet-metal color-printed sign-plate may be removed from the front of the can when the brass front plate is subjected to the action of the buffing-wheel and reburnished, the removable sign-plate display-can being an improvement over the old construction, where the sign-plate or name of the bakery is stamped up in raised letters on the sheet-brass front plate itself of the can in the advertising mat or space which was left therefor just above the display-opening in the front plate which is closed by the removable glass plate.

In the removable sign-plate display-cans heretofore in use—such, for example, as shown in the Larkin patents, No. 764,296 and 764,297, of July 5, 1904, where the removable sheet-metal sign-plate is removably mounted on the inside of the front plate and the front plate is provided with a second or sign plate opening above the glass plate or display-opening therein—the front of the can, which is necessarily made of thin sheet-brass, is greatly weakened by the additional opening

formed therein, which leaves the front plate of a mere skeleton form, and the can is of a somewhat expensive construction owing to the several additional parts or pieces required in its manufacture and to the difficulty of soldering the same on the brass metal of the front plate, and the flux necessarily used in the soldering operation produces verdigris or poisonous compounds on the inside of the front plate difficult to effectually or perfectly remove and liable through carelessness of the workmen to be left on the inside of the can and come in contact with the crackers or other goods placed therein.

The object of my invention is to provide a sheet-metal display-can for crackers or other bakery goods which may be cheaply manufactured and be of a simple, strong, and durable construction, composed of few parts and having in its front plate a display-opening and a removable glass plate fitting on the inside of the front plate for closing the display-opening and having a removable sheet-metal sign-plate bearing the name or sign printed or lithographed thereon in colors and in which the brass front plate will require no parts to be soldered thereto for removably mounting and holding thereon either the removable glass plate or the removable sign-plate.

My invention consists in the means I employ and herein shown and described for practically accomplishing this object or result—that is to say, it consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown and described.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of a sheet-metal display-can embodying my invention. Fig. 2 is an enlarged vertical section on line 2 2 of Fig. 1. Fig. 3 is a vertical section on line 3 3 of Fig. 2. Fig. 4 is a horizontal section on line 4 4 of Fig. 2. Fig. 5 is a detail top or plan view of one corner of the can-body, and Fig. 6 is a detail perspective view of one of the glass-plate holders.

In the drawings, A represents the three sheet-metal upright side plates, and B the sheet-brass or burnishable metal front plate forming the body of the can; C, the bottom plate, and D the hinged cover. The bottom

plate C is secured by external folded seams *c* to the lower edges of the sides A and B. At the upright corners of the body the sheet-metal sides A and front side B are united by internal folded seams *a*. The upright side plates A of the body have at their upper ends horizontal right-angle flanges *a'*, preferably about one-half inch in width, and angle-flanges *a''*, the lower edges of which meet and are soldered to the vertical sides A, thus forming hollow triangular stiffening bars or braces A' at the upper end of the body at three sides thereof, and at its remaining or front side a similar hollow triangular stiffening and strengthening bar A², having a corresponding horizontal flange *a'* and angle-flange *a''*, is provided. At the corners of the body the meeting horizontal flanges *a'* and the meeting angle-flanges *a''* of the hollow strengthening bars or braces A' A² overlap each other and are securely soldered together, thus forming a continuous hollow strengthening bar or brace all around the upper end of the body.

The sheet-brass front plate B of the body has a display-opening B' in its lower portion surrounded by an inturned angle-flange *b* and closed by a removable glass plate E, and above the glass-plate opening B' the front plate B is provided with an integral countersunk or recessed portion B², surrounded by a marginal wall or angle-flange *b''*, and forming an external seat or recess to receive the externally-fitting removable sheet-metal sign-plate G. The brass front plate B has a fold *b''* at its upper edge to give a smooth finish thereto, and it fits snugly against and is soldered directly to and supported by the hollow triangular strengthening-bar A² at the front side of the can. The thin brass front plate is thus given a strong support at its upper end by the bar A² and a much stronger and better construction than those heretofore used where a slot or passage-way is left between the bar A² and the front plate for the removal and insertion of an inside-fitting sign-plate.

The hinged cover D has right-angle integral flanges *d* at three of its sides and a front flange *d'* of a separate piece and preferably of brass to correspond to the brass front B. The lower edges of the cover-flanges *d d'* have curves or coils *d''* embracing a wire D', which completely surrounds the cover and forms also the pivot of its hinge.

The removable inside-fitting glass plate E, which is small enough to be inserted through the open upper end or mouth of the can-body, is removably held in place against the inturned angle-flange *b*, surrounding the opening B' in the front plate B, by means of a fixed sheet-metal guide-piece E', which is secured to the bottom plate C of the can by interfolding its outer edge with the seam *c*, which unites the bottom plate to the lower

edge of the brass front plate B. The fixed sheet-metal guide E' has an upturned lip *e''* to engage the lower edge of the glass plate E. The glass plate E is held clamped at its upper edge against the angle-flange *b* by means of glass-plate holders F, preferably of sheet metal, and pivoted to the recessed or countersunk portion B² of the front plate B by means of rivets *f* at the upper ends of the holders F and which are engaged at their lower portions by keepers *b'* on the front plate B, the keepers being preferably integral lips formed on the front plate by slits *b''* therein, the lips being suitably offset to receive the edge of the holders F between the lips and the back of the front plate. Each of the pivoted holders F is preferably of sheet metal and provided with a shoulder or offset *f'* to overhang and engage the upper edge of the glass plate E, and a depending lip *f''* to engage the inner face of the front plate at the top edge thereof. The lateral shoulder *f'* is preferably formed of a right-angle integral fold *f'''* in the sheet-metal holder F. The holder F is also provided with an integral projecting longitudinal rib *f''* near one edge, extending from the upper end of the holder to the lateral fold or shoulder *f'* to serve as a finger-hold in turning the holders F on their pivots.

The externally-fitting removable sign-plate G is preferably made of tin-plate or spring metal, and the recessed portions of the front plate in which it fits are preferably provided with interengaging holding devices *g*, adapted to engage and disengage each other by the bending or springing of the sign-plate. The interengaging holding devices *g* on the spring sign-plate G are preferably integral tongues, and those *b''* on the front plate are preferably slots formed at the base of the angle flange or wall *b'*.

I claim—

1. In a sheet-metal display-can, the combination with a front plate having a display-opening therein and an integral countersunk portion forming a recess on the outside thereof to receive a removable sheet-metal sign-plate, of a removable inside-fitting glass plate, a fixed guide engaging the lower edge of the glass plate, and movable glass-plate holders pivoted to the countersunk portion of the front plate and provided each with a lateral shoulder and depending lip to overhang and engage the upper edge of the glass plate, the countersunk portion of the front plate being provided with integral keeper-lips engaging the holders, and a removable external sign-plate fitting in the recess formed by the countersunk portion of the front plate, and means for removably securing the sign-plate in place, substantially as specified.

2. In a sheet-metal display-can, the combination with a front plate having a display-opening therein and a countersunk portion

above the display-opening forming a seat for an externally-fitting sign-plate, of a removable inside-fitting glass plate and movable holders for the glass plate pivoted to said countersunk portion of the front plate, and keepers on the countersunk portion of the front plate engaging said holders, substantially as specified.

3. In a sheet-metal display-can, the combination with a front plate having a display-opening therein and a countersunk portion above the display-opening forming a seat for an externally-fitting sign-plate, of a removable inside-fitting glass plate and movable holders for the glass plate pivoted to said countersunk portion of the front plate, keepers on the countersunk portion of the front plate engaging said holders, said keepers being integral with the front plate, substantially as specified.

4. In a sheet-metal display-can, the combination with a front plate having a display-opening therein and a countersunk portion above the display-opening forming a seat for an externally-fitting sign-plate, of a removable inside-fitting glass plate and movable holders for the glass plate pivoted to said countersunk portion of the front plate, and keepers on the countersunk portion of the front plate engaging said holders, each of said pivotal holders having a longitudinally-extending rib, substantially as specified.

5. In a sheet-metal display-can, the combination with a front plate having a display-opening therein and a countersunk portion above the display-opening forming a seat for an externally-fitting sign-plate, of a removable inside-fitting glass plate and movable holders for the glass plate pivoted to said countersunk portion of the front plate, and keepers on the countersunk portion of the front plate engaging said holders, each of said holders having a laterally-extending shoulder overhanging the upper edge of the glass plate, substantially as specified.

6. In a sheet-metal display-can, the combination with a front plate having a display-opening therein and a countersunk portion above the display-opening forming a seat for an externally-fitting sign-plate, of a removable inside-fitting glass plate and movable holders for the glass plate pivoted to said countersunk portion of the front plate, and keepers on the countersunk portion of the front plate engaging said holders, each of said holders having a laterally-extending shoulder overhanging the upper edge of the glass plate, and a depending lip engaging the inside face of the glass plate, substantially as specified.

7. In a sheet-metal display-can, the combination with a front plate having a display

opening therein, and a countersunk portion above the display-opening forming a seat to receive an externally-fitting removable sign-plate, of a removable inside-fitting glass plate, and a movable holder for the glass plate pivoted to said countersunk portion of the front plate, and a keeper on the front plate engaging said holder, substantially as specified.

8. In a sheet-metal display-can, the combination with a front plate having a display-opening therein, and a countersunk portion above the display-opening forming a seat to receive an externally-fitting removable sign-plate, of a removable inside-fitting glass plate, and a movable holder for the glass plate pivoted to said countersunk portion of the front plate, and a keeper on the front plate engaging said holder, said keeper being integral with the front plate, substantially as specified.

9. In a sheet-metal display-can, the combination with a front plate having a display-opening therein, and a countersunk portion above the display-opening forming a seat to receive an externally-fitting removable sign-plate, of a removable inside-fitting glass plate, and a movable holder for the glass plate pivoted to said countersunk portion of the front plate, and a keeper on the front plate engaging said holder, said holder having a longitudinally-extending rib, a laterally-projecting shoulder and a depending lip, substantially as specified.

10. In a sheet-metal display-can, the combination with a front plate having a display-opening therein, and a countersunk portion above the display-opening forming a seat to receive an externally-fitting removable sign-plate, of a removable inside-fitting glass plate, and a movable holder for the glass plate pivoted to said countersunk portion of the front plate, and a keeper on the front plate engaging said holder, said holder having a laterally-projecting shoulder and a depending lip engaging the upper edge of the glass plate, substantially as specified.

11. In a sheet-metal display-can, the combination with a front plate having a display-opening therein, of a removable inside-fitting glass plate, a fixed guide engaging the lower edge of the glass plate, and a movable holder pivoted to the front plate above the glass plate opening therein and provided with a longitudinal rib and a lateral shoulder and depending lip engaging the upper edge of the glass plate, substantially as specified.

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Witnesses:

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