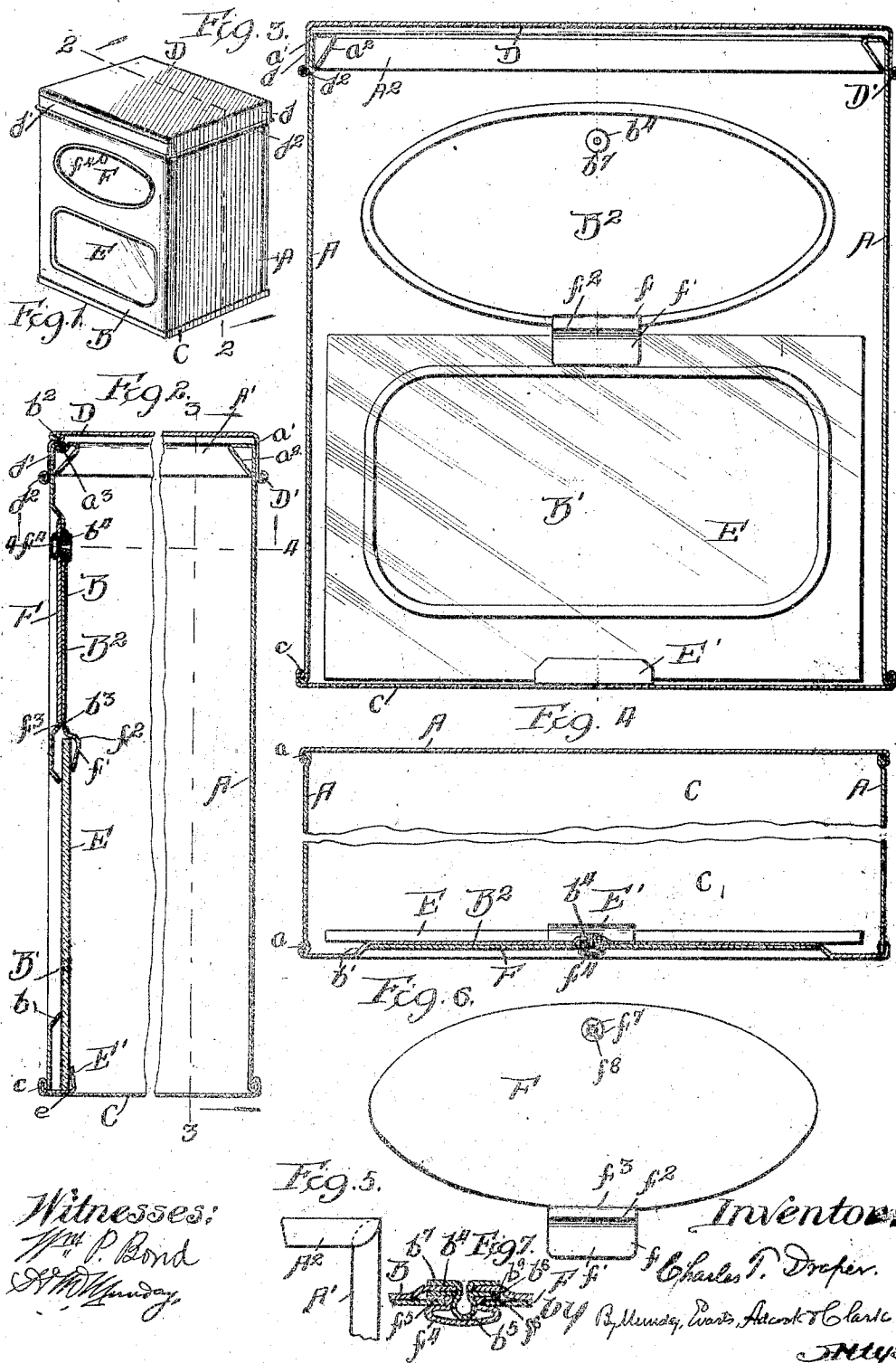


C. T. DRAPER.
SHEET METAL DISPLAY CAN.
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UNITED STATES PATENT OFFICE.

CHARLES T. DRAPER, OF CLEVELAND, OHIO, ASSIGNOR TO AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

SHEET-METAL DISPLAY-CAN.

No. 878,784.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES T. DRAPER, a citizen of the United States, residing in Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Sheet-Metal Display-Cans, of which the following is a specification.

My invention relates to sheet metal display cans, and more particularly to improvements upon the display can forming the subject of the Rudolphi and Geiger patent 815,981 of March 27th, 1906, having a brass or burnishable metal front plate furnished with a display opening at its lower part, and an external sign plate seat at its upper part, a removable inside fitting glass plate and a removable outside fitting sheet metal sign plate furnished with an integral tongue or holding device at its lower edge which projects through a slot in the front plate and engages the upper edge of the glass plate to hold it in place.

My invention consists in connection with the front plate having an external recessed seat to receive the external sign plate, and a slot to receive the glass holding tongue at the lower edge of the sign plate, in providing the glass holding tongue on the sign plate with an additional shoulder engaging the upper edge of the slot in the front plate, and in furnishing the recessed portion of the front plate with a stud-like fastener riveted thereto, and in providing the sign plate with a cooperating spring cap fastener adapted to be pushed over and engage the stud fastener on the front plate and hold the two parts in firm, snug engagement with each other.

My invention also 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 drawing, forming a part of this specification Figure 1 is a perspective view of a display can embodying my invention; Fig. 2 is a central 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 view showing one corner of the can body; Fig. 6 is a detail rear view of the removable sign plate, and Fig. 7 is an enlarged detail sectional view of the interengaging fasteners on the front plate and sign plate.

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 side plates A and front plate B. At the upright corners of the body the sheet metal sides A and the front plate B are united by interfolded seams *a*. The upright side plates A of the body have at their upper ends horizontal right angle flanges *a*¹, preferably about one half inch in width, and angle flanges *a*², the lower edges of which meet and are soldered to the vertical sides A, thus forming hollow triangular stiffening and strengthening bars or braces A¹ at the upper end of the can body at three sides thereof and at its remaining or front side there is a similar hollow triangular stiffening and strengthening bar A², having a corresponding horizontal flange *a*¹ and angle flange *a*². At the corners of the body the meeting horizontal flanges *a*¹ and meeting angle flanges *a*² of the hollow strengthening bars or braces A¹ A² overlap each other and are securely soldered together, thus forming a continuous hollow strengthening bar all around the upper end of the can body.

The brass front plate B has a display opening B¹ in its lower portion surrounded by an inturned angle flange *b* and a countersunk portion B², surrounded by a marginal wall or angle flange *b*¹, the countersink forming an external seat or recess to receive the externally fitting removable sheet metal sign plate F. The brass front plate B has a fold *b*² at its upper edge to give a smooth upper finish thereto, and it fits snugly against and is supported by the hollow triangular strengthening bar A² at the front side of the can, to which bar it is directly secured by an interfold or flange *a*³. The thin brass front plate B is thus given a strong support at its upper end by the bar A², and a much stronger and better construction is produced than in the cans heretofore in use, where a slot or passage way is left between the bar A² and the front plate B for the removal and insertion of an inside fitting plate.

The hinged cover D has a right angle integral flange *d* at three of its edges and a front flange *d*¹ of a separate piece and preferably of brass to correspond to the brass front B of the can body. The lower edges of the cover

flanges d d^1 have rolls or coils d^2 , embracing a wire D^1 , which completely surrounds the cover and forms also the pivot of its hinge.

E is a removable inside fitting glass plate held in place at its lower end against the angle flange b , surrounding the opening B^1 in the brass front plate B, by a fixed guide E^1 , preferably of sheet metal and secured immovably in place by an angle flange e thereon which is embraced in the folds of the seam c , which unites the bottom plate C with the front plate B of the can.

The removable externally fitting sheet metal sign plate F, having the name or sign printed or lithographed thereon in colors, fits in its seat or recess formed on the outside of the front plate B by the countersink B^2 therein and is removably held in place at its lower edge by an integral tongue f thereon, which fits in and extends through a suitable slot b^3 in the front plate B at the base of the angle flange b^1 . The integral tongue f on the sign plate has an integral extension or lip f^1 overhanging and engaging the inner face of the glass plate E at the upper end or edge thereof and also preferably a shoulder or curved portion f^2 , which projects over the upper edge of the glass plate E, and thus prevents the glass plate from slipping upward or tilting inward. The glass holding tongue f on the removable sign plate F is further provided with a supplemental shoulder f^3 , which fits under and engages the upper edge of the slot b^3 in the front plate B, and thus positively locks the sign plate from slipping upward when it is snugly secured at its upper part to and against the recessed portion of the front plate.

To removably secure the outside fitting sign plate F snugly and firmly against the recessed portion of the front plate B, I provide the front plate at the upper part of its recessed portion with a stud-like fastening device b^4 , having a rounded enlarged head b^5 , and the sign plate F at its upper part with a cooperating spring-cap or spring-socket fastener f^4 . The two cooperating fasteners on the two plates are engageable by simply firmly pressing the sign plate against the front plate. The stud and spring cap fasteners may be disengaged when it is desired to remove the sign plate by simply inserting a knife blade or pointed instrument between the edge of the sign plate and front plate and prying the two apart.

The stud fastener b^4 is inserted through a suitable hole in the front plate and is secured rigidly thereto by a washer b^6 and an upset or riveting flange b^7 , the one fitting outside and the other inside the front plate. The spring cap or socket fastener f^4 is inserted through a suitable hole in the sign plate and is secured thereto by a head or flange f^5 fitting outside the sign plate, and an upset or riveting flange f^6 fitting on the inner side of the sign plate. The spring socket or cap fastener f^4 has radial

slots f^7 to give its segment f^8 the required spring action to enable the same to snap over the enlarged rounded head b^5 of the stud fastener b^4 .

The front plate B is inwardly bent, where the stud fastener is attached, to form the seat b^9 , as indicated in Fig. 7, thereby permitting the sign plate to be held by the fastener with its rear face in flat contact with the front face of the plate B and preventing any tilting of the sign plate on the fastener. By this means the removable external sign plate is snugly and firmly held in place and is prevented from slipping or yielding in any direction, so that its integral tongue f serves to effectually hold the glass plate snugly against the edge of the angle flange b surrounding the lower or display opening in the front plate, while at the same time the sign plate may be readily removed when it is required to rebuff or repolish the brass front plate of the can, and also readily replaced.

As in my improved can when the sign plate and glass plate are removed, there are no sign plate or glass plate holding devices secured on the inside of the front plate, the interior of the can can be easily and perfectly cleaned out, as there are no obstructions to interfere with the cleaning of the can on the inside.

I claim:

1. In a display can, the combination with the front plate having a display opening therein, of a removable inside fitting glass plate, and a removable outside fitting sign plate having a tongue on the lower part thereof which passes behind and engages the glass plate to hold it against the said front plate, and at the upper part of the sign plate separable fastener devices one surrounding and embracing the other and projecting from the sign plate and from the front plate respectively, and engageable and disengageable with and from each other only by movements in a direction perpendicular to the front plate and being rigid and unyielding in all directions parallel with the front plate, by which the upper part of the sign plate is removably united to the front plate, the said fastener devices acting independently of the engagement of the tongue with the glass plate and to hold the sign plate and tongue from movement in any direction parallel with the front of the can or towards or from the glass plate which the tongue engages, substantially as set forth.

2. In a display can, the combination with the front plate having a display opening therein and a slot b^3 , of a removable inside fitting glass plate, and a removable outside fitting sign plate having a tongue thereon passing through the said slot and behind the glass plate, the tongue having a shoulder which bears downward on the upper edge of the glass plate and a supplemental shoulder

which bears upward against the edge of the slot, and separable fastener devices by which the upper part of the sign plate is removably held against the front of the front plate, substantially as set forth.

5 3. In a display can, the combination with the front plate having a display opening therein, of a removable inside fitting glass plate, and a removable outside fitting sign plate having an integral tongue thereon en-
10 gaging the upper edge of the glass plate to hold it in place; said front plate having a slot through which said tongue on the sign plate projects, and said tongue on the sign plate
15 having a shoulder fitting under and engaging the upper edge of the slot in the front plate, substantially as specified.

4. In a display can, the combination of the

front plate having a display opening therein and having the inwardly bent seat *b*⁹, a re- 20
movable inside fitting glass plate, a remov-
able outside fitting sign plate having a tongue
which engages the inner side of the glass
plate, a socket fastener on the sign plate, and
a stud fastener attached to the front plate in 25
the said seat, the said fasteners being engage-
able to hold the rear face of the sign plate in
contact with the front face of the front plate
and to hold the tongue from vertical move-
ment relative to the glass plate, substantially 30
as set forth.

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Witnesses:

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