J. F. XAVIER, J. E. SCHENCK & F. RUDOLPH.

SHEET METAL DISPLAY CAN.

APPLICATION FILED AUG. 9, 1909.

983,469.

Patented Feb. 7, 1911.

Fig. 1

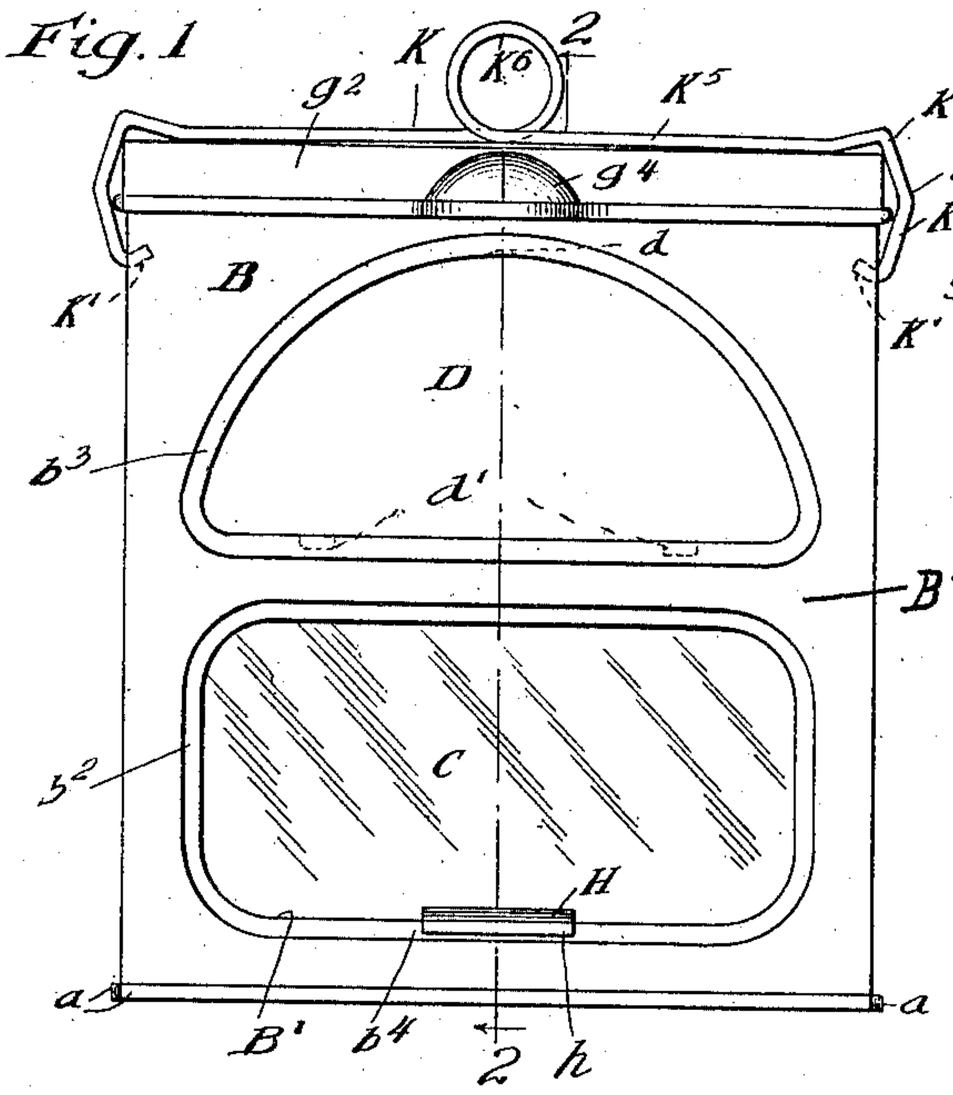


Fig. 2.

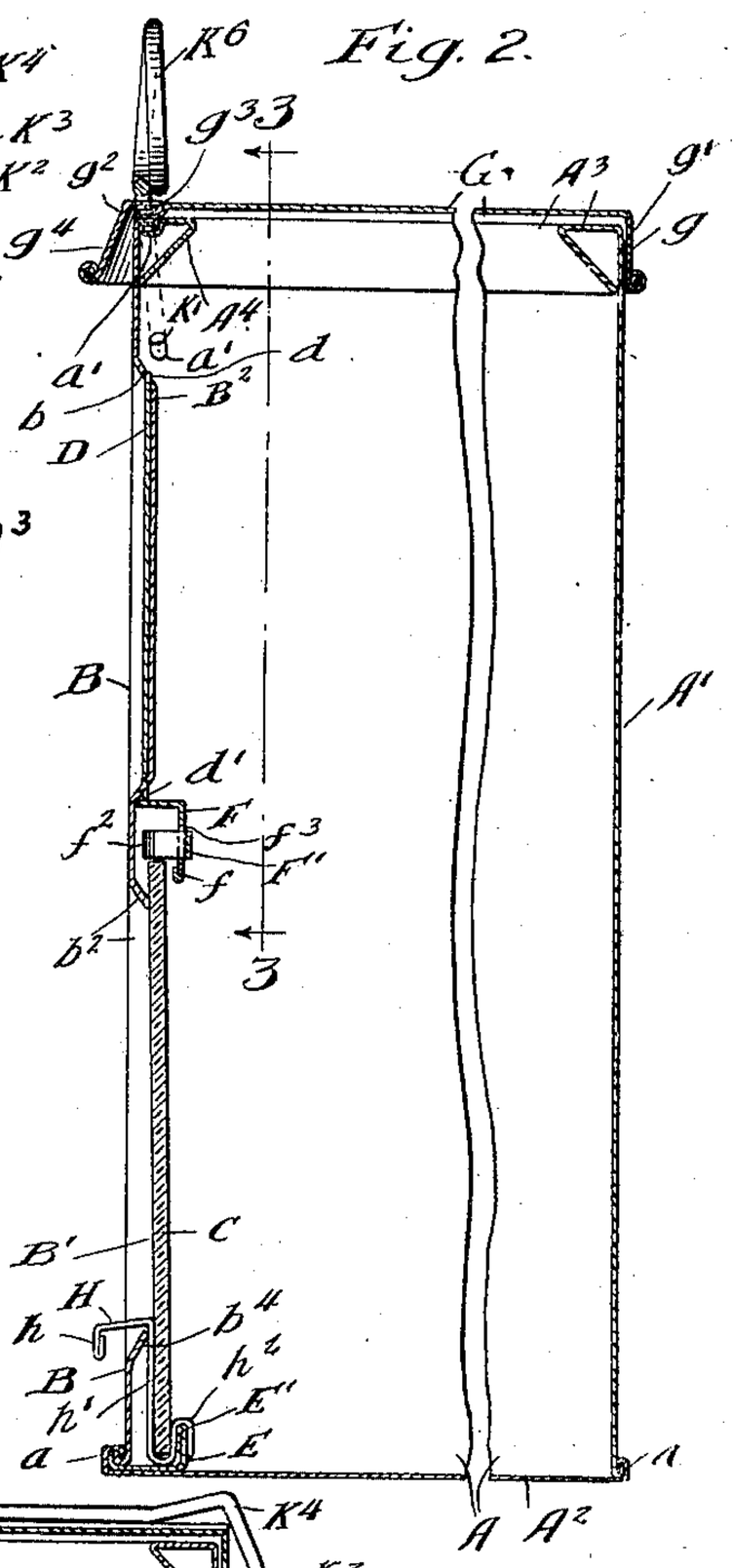


Fig. 3

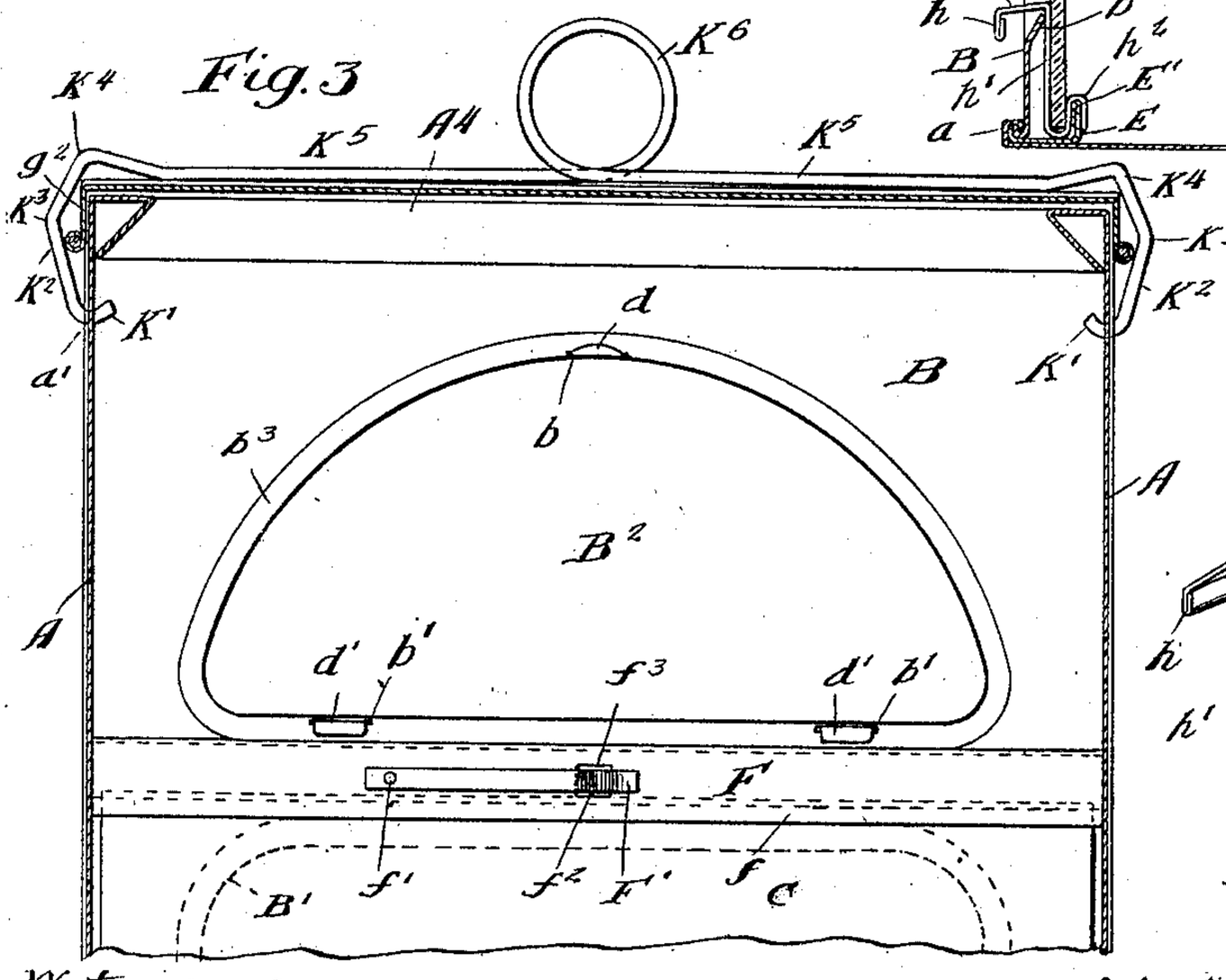
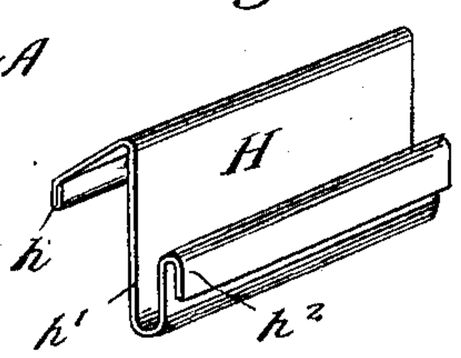


Fig. 4



Witnesses:

Wm. Geiger

N. W. Munday.

Inventors:

John F. Xavier.

John E. Schenck.

Franklin Rudolph.

By Munday, Evarts Adcock & Clarke.

Attorneys

UNITED STATES PATENT OFFICE.

JOHN F. XAVIER, OF CLEVELAND, OHIO, AND JOHN E. SCHENCK AND FRANKLIN RUDOLPH, OF CHICAGO, ILLINOIS, ASSIGNORS TO AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

SHEET-METAL DISPLAY-CAN.

983,469. Specification of Letters Patent. **Patented Feb. 7, 1911.**

Application filed August 9, 1909. Serial No. 511,883.

To all whom it may concern:

Be it known that we, JOHN F. XAVIER, a citizen of the United States, residing in Cleveland, county of Cuyahoga, in the State of Ohio, and JOHN E. SCHENCK and FRANKLIN RUDOLPH, citizens 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, of which the following is a specification.

Our invention relates to improvements in sheet metal display cans.

Heretofore considerable difficulty has been experienced in the practical use of the large rectangular sheet metal display cans commonly used for dispensing crackers and other articles, in pulling any particular can out from between shelves, and also in handling and carrying the cans about and also from the covers flopping open.

The object of our invention is to provide an improved construction of sheet metal display can which will obviate these objections.

Our invention consists in the means we employ to practically accomplish this object or result as herein shown and described, and more particularly specified in the claims.

In the accompanying drawing forming a part of this specification, Figure 1 is a front elevation of a sheet metal display can embodying our invention. Fig. 2 is an enlarged vertical section on the broken line 2—2 of Fig. 1. Fig. 3 is a partial vertical section on line 3—3 of Fig. 2 and Fig. 4 is a detail perspective view of the lower removable can pulling device.

In said drawing, A A represent the upright side plates, A^1 the upright back plate, A^2 the bottom plate and B the upright front plate of a sheet metal display can embodying our invention, the side, back and bottom plates being preferably of tin and the front plate of thin sheet brass.

C is the inside fitting removable glass plate closing the lower opening B^1 in the front plate and D is the outside fitting removable sign plate fitting in the recessed portion B^2 of the front plate, the latter having integral lips d d^1 engaging holder slots b b^1 in the front plate.

The upright side plates A A, back plate A^1, bottom plate A^2 and front plate B are preferably secured together at their meeting edges by interfolded seams a, and the side and back plates A and A^1 are provided with integral, hollow, triangular strengthening bars A^3 at the top; and at the front of the can a further strengthening bar A^4 is provided, connected to the brass front plate B by a folded seam a^1. The front plate B has a beveled flange b^2 surrounding the display opening B^1 therein, and a similar beveled flange b^3 surrounding the recess or depressed panel portion B^2 in which the removable sign plate D fits.

The removable glass plate C is held in position at its lower edge by a fixed lower holder E of sheet metal, the outer edge of which is interfolded with the double seam a which unites the front edge of the bottom plate A^2 to the lower horizontal edge of the front plate B, and which holder E has an upturned lip E^1 for engagement with the lower edge of the glass plate C. At its upper edge the glass plate C is held in position by an angle bar holder F which is soldered or otherwise rigidly secured at its ends to the adjacent side plates A A of the can and which has a depending flange or member f which overlaps the upper edge of the glass plate C. The front edge of this angle bar holder F abuts directly against the thin sheet brass front plate B and serves to strengthen and support the same at the horizontal mid-rib portion B^3 thereof. To remove the glass plate C, it is first raised or slipped upward within its fixed upper holder F sufficiently to enable its lower edge to clear the upturned lip E^1 of the lower holder E and then the glass plate is tilted inward at its lower portion and its upper edge withdrawn from the fixed upper holder F. The glass plate is held or locked in position between its upper and lower holders by a withdrawable spring catch F^1 secured on the outside of the fixed angle bar holder F by a rivet f^1 and having an integral bend or projection f^2 which projects through a slot or opening f^3 in the depending member f of the holder F, thus preventing the glass plate from moving or slipping upward except when the spring catch F^1 is withdrawn.

G is the hinged cover having a depending flange g surrounding and embracing the upper end of the can and connected by a hinge g^1 at its back to the back plate A^1 of the can.

The depending flange or rim of the cover at the front thereof is preferably not integral with the cover but of a separate piece g^2 and of sheet brass to conform to the brass front plate of the can. The separate piece cover flange strip g^2 is secured to the cover G by a folded seam g^3.

To enable the can to be easily and conveniently pulled from between shelves, especially when a number of the cans are placed in close juxtaposition to each other, we provide it at its front bottom corner with a removable puller H, preferably formed of a single piece of sheet metal and having a finger hold h which projects out through the display opening B^1 of the front plate and directly over the inturned flange b^4 which surrounds this opening at the lower edge thereof. The can pull device H is also provided with a depending member h^1 against which the outer face of the glass plate C directly abuts at its lower portion and with a hook shaped or reverse folded portion h^2 adapted to hook over and embrace the upwardly projecting flange or lip E^1 of the lower holder E of the glass plate. The lower edge of the glass plate fits between the depending member h^1 and the upwardly projecting hook member h^2, thus affording a snug, firm seat for the lower edge of the glass plate. The pull device H not only serves as a convenient means in connection with the upper pull device for slipping the can out from shelves, but also serves as a convenient means for slipping the glass plate C upward within its upper holder F and thus removing it.

The front depending flange g^2 of the hinged cover G is provided with an integral outwardly curved finger hold portion g^4 to serve as an upper pull device for conveniently removing the can from shelves.

To provide the can with a convenient means for carrying it about and at the same time locking the hinged cover in its closed position, we provide a spring wire cover locking device K having inwardly projecting pivot hooks K^1 at its extremities which enter pivot hooks a^1 in the upright sides A of the can, the upright members K^2 of the wire lock K having outward bends K^3 and upward bends K^4 to enable it to swing over and clear the hinged cover, and at the same time cause the main portion K^5 to snap over and engage with a yielding spring pressure the upper front portion of the cover and thus securely lock it in position. At its middle, the spring wire cover lock K is furnished with an integral loop or handle K^6 which serves as a convenient means for carrying the can, and also as a lever for swinging the lock K forward and thus springing it off of and over or onto the cover. The integral handle loop K^6, by its contraction or expansion in diameter as the lock is swung into its open or locked position, also serves to give the lock an adequate spring action to prevent the weight of the can and its contents from freeing the lock from the cover when the filled can is being carried by the handle K^6.

We claim:—

1. A sheet metal display can having a front plate with an opening therein, and a removable glass plate, of a separate piece removable can puller device having a handle portion projecting through said opening in the front plate at the lower edge thereof, and provided with means for receiving and interengaging with the lower edge of the glass plate, substantially as specified.

2. A sheet metal display can having a front plate with an opening therein, and a removable glass plate, of a separate piece removable can puller device having a handle portion projecting through said opening in the front plate at the lower edge thereof, and provided with means for receiving and interengaging with the lower edge of the glass plate, and a holder for the lower edge of the glass plate having an upturned member, said puller device having a hook interengaging with said upturned member of said holder, substantially as specified.

3. A sheet metal display can having a front plate with an opening therein, and a removable glass plate, of a separate piece removable can puller device having a handle portion projecting through said opening in the front plate at the lower edge thereof, and provided with means for receiving and interengaging with the lower edge of the glass plate, and a hinged cover having a depending flange at its front provided with an outwardly curved finger hold portion, substantially as specified.

JOHN F. XAVIER.
JOHN E. SCHENCK.
FRANKLIN RUDOLPH.

Witnesses to signature of John F. Xavier:
PAUL L. MILLER,
WM. F. MUELLER.

Witnesses to the signatures of John E. Schenck and Franklin Rudolph:
H. M. MUNDAY,
ESTHER ABRAMS.