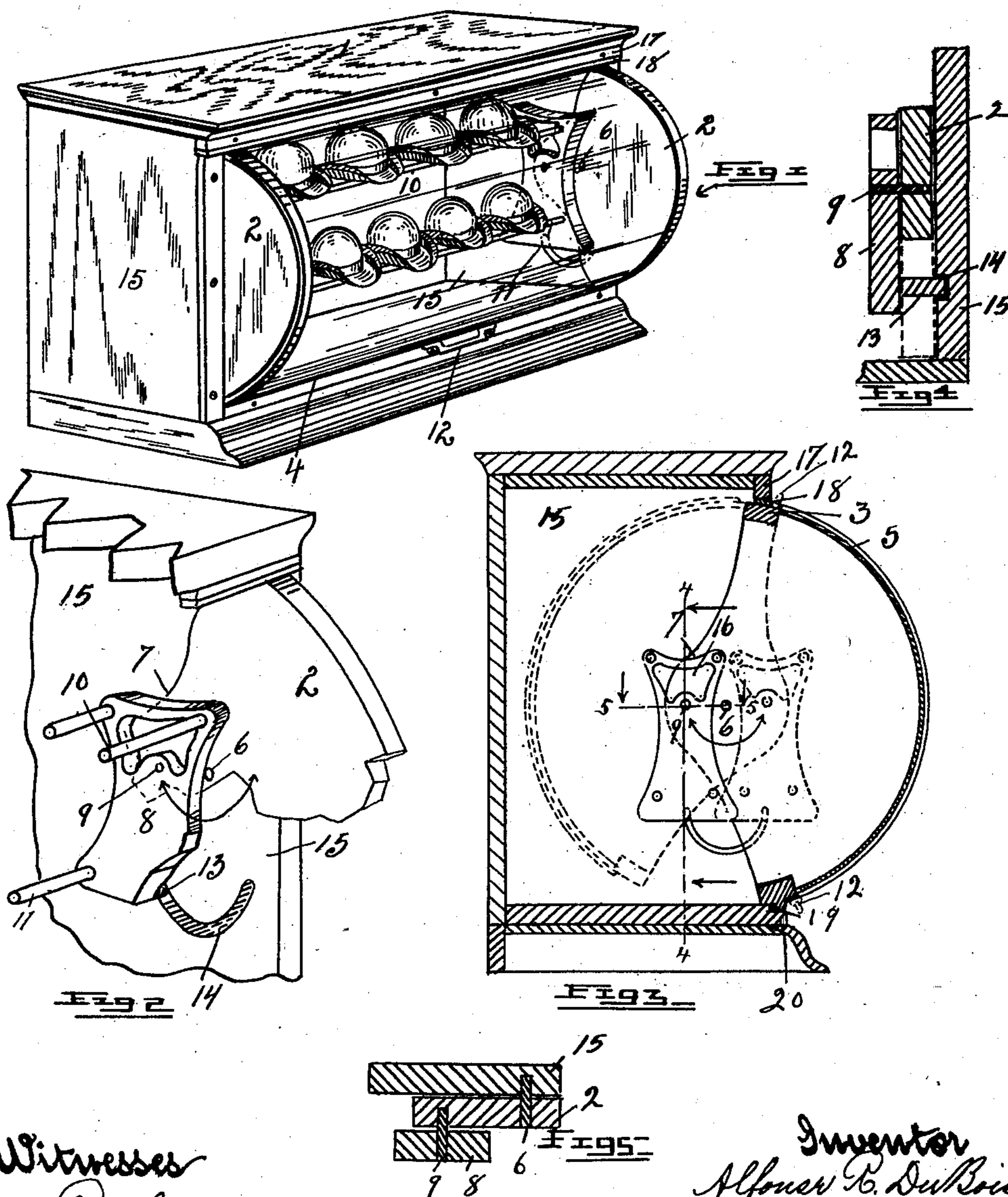


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A. R. DU BOISE.  
HAT DISPLAY CABINET.  
APPLICATION FILED DEC. 8, 1902.

NO MODEL.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ALFONSE R. DU BOISE, OF FLINT, MICHIGAN.

## HAT-DISPLAY CABINET.

SPECIFICATION forming part of Letters Patent No. 720,411, dated February 10, 1903.

Application filed December 8, 1902. Serial No. 134,285. (No model.)

*To all whom it may concern:*

Be it known that I, ALFONSE R. DU BOISE, a citizen of the United States, residing at Flint, in the county of Genesee, State of Michigan, have invented certain new and useful Improvements in Hat-Display Cabinets; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to a hat-display cabinet; and it consists in the construction and arrangement of parts hereinafter fully set forth, and pointed out particularly in the claims.

The object of the invention is to provide a display-cabinet for hats in which the arrangement is such as to enable all sizes of hats to be placed upon one shelf to economize space, to provide for automatically projecting the hats outwardly from the case when the door is opened, so as to render the hats upon the shelves readily accessible, to provide for tiering the cases, so as to accommodate a number in a small area, and to provide for excluding dust from the case when closed.

The above object is attained by the structure illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a hat-display cabinet involving my invention. Fig. 2 is a fragmentary view in perspective of the inside of one end of the cabinet, showing construction and association of the parts. Fig. 3 is a transverse section through the cabinet. Fig. 4 is a vertical section as on line 4 4 of Fig. 3. Fig. 5 is a horizontal section on line 5 5 of Fig. 3.

Referring to the characters of reference, 1 designates the cabinet, which may be of any suitable shape, but which is herein shown as rectangular and the outer face of which is left open. The door of the cabinet comprises semicircular end pieces 2, which are connected by the top and bottom rails 3 and 4, which cross between said end pieces. Also extending between the end pieces and mounted thereon, so as to conform thereto, is a semi-cylindrical panel 5, of glass or other trans-

parent material, such as celluloid. The ends 2 of the doors are pivoted at 6 to the ends of the cabinet and are provided with an extension 7 beyond said point of pivot. At each end of the cabinet is a weighted plate 8, which is pivoted near its upper end upon a pin 9, projecting from the extension 7 of the ends of the door. The lower portion of said plates being heavier than the upper portion, they are caused to depend vertically from their points of pivot. Crossing between said plates are the rods 10 and 11, the upper rods forming the upper shelf of the cabinet and the lower rods 11 forming the lower shelf thereof. Upon these rods the hats are placed to display them in the cabinet, as shown in Fig. 1. The ends 2 of the door being pivoted at 6 to the ends of the cabinet, said door is permitted to turn upon said pivots and to roll backward into the cabinet to afford access thereto, said door being manipulated through the medium of the handle 12. In the rotation of the door upon the pivots 6 in the operation of opening the cabinet it is caused to describe a half-circle and the pivot-pins 9, carried by the extensions 7 on the ends of the door, are caused to describe a circle concentric with the center of oscillation upon which the door swings, thereby carrying the pivotally-mounted plates 8 downwardly and forwardly in the arc of a circle, presenting the shelves containing the hats toward the front of the cabinet and placing the hats upon said shelves conveniently at hand, as shown by dotted lines in Fig. 3. Upon closing the door of the cabinet the gravity-plates 8, carrying the rods which form the shelves, are swung downwardly and inwardly to their normal position, enabling the door to close in front of the hats.

To prevent the plates 8 from swinging too freely upon their points of pivot, each of said plates is provided with a pin 13, projecting laterally from the outer case thereof near the lower edge, which extends into a guide-channel 14, formed in the end 15 of the cabinet. The segment of the circle described by said channel coincides with the movement imparted to the plates 8 by the turning of the door upon its pivot, so that the pins 13 of said plates travel freely in said channels as the door is opened and closed. At the same

time said pins prevent a swinging of the lower ends of said plates by reason of their engagement in said channel, holding the shelves more perfectly in position and preventing an  
5 excessive swinging movement when actuated through the manipulation of the door. To assist in retaining the plates 8 more perfectly in a vertical position, they are each provided in the upper end thereof above the pivot 9  
10 with an opening 16, which serves to lighten the upper end of said plates.

It will now be apparent upon the opening of the door of the cabinet the shelves containing the hats are projected outwardly and  
15 that upon the closing of said door said shelves are retracted. To exclude dust from the cabinet, the upper rail 17 thereof is provided on its under face with a layer of felt 18, which engages the rail of the panel when the cabi-  
20 net is closed, while the bottom rail 4 is provided with a layer of felt 18, which closes against the base 19 of the cabinet.

Having thus fully set forth my invention, what I claim as new, and desire to secure by  
25 Letters Patent, is—

1. In a hat-display cabinet, the combination of the inclosing case, the semicylindrical door pivoted in said case, a shelf pivotally mounted on the ends of the door eccentric to

the axis of the door's oscillation, whereby, 30 upon the opening and closing of the door, said shelf is automatically projected and retracted.

2. In a hat-display cabinet, the combination of a case, a semicylindrical door pivoted 35 to the ends of the case, gravity-plates pivoted to the ends of the door eccentric to the door's axis of oscillation, bars connecting said plates to form shelves for hats, whereby said shelves are projected and retracted as the door is 40 opened and closed.

3. In a hat-display cabinet, the combination of a case, a semicylindrical door pivoted in said case so as to oscillate in the arc of a 45 circle, gravity-plates pivoted to the ends of the door eccentric to the door's axis of oscillation, shelves connecting said plates, each of said plates having a projection extending laterally therefrom, and each of the cases adapted to receive the projection on the plate 50 whereby the plates are steadied and directed in their movement.

In testimony whereof I sign this specification in the presence of two witnesses.

ALFONSE R. DU BOISE.

Witnesses:

E. S. WHEELER,  
M. C. POOLE.