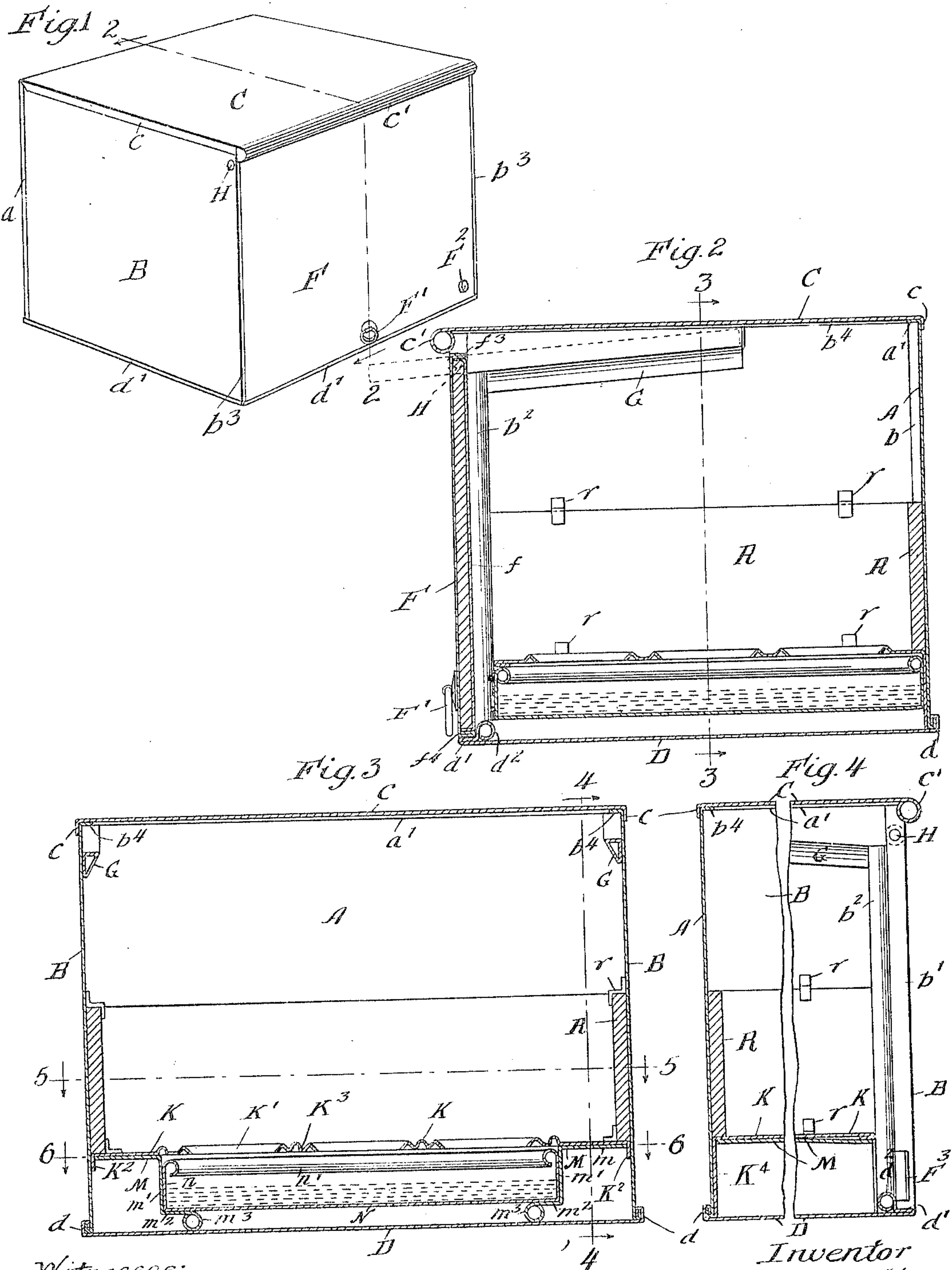


No. 804,487.

PATENTED NOV. 14, 1905.

H. MACARTHY.
SHEET METAL HUMIDOR.
APPLICATION FILED JULY 12, 1905.

2 SHEETS—SHEET 1.



Witnesses:

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Inventor
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2 SHEETS—SHEET 2.

Fig. 5

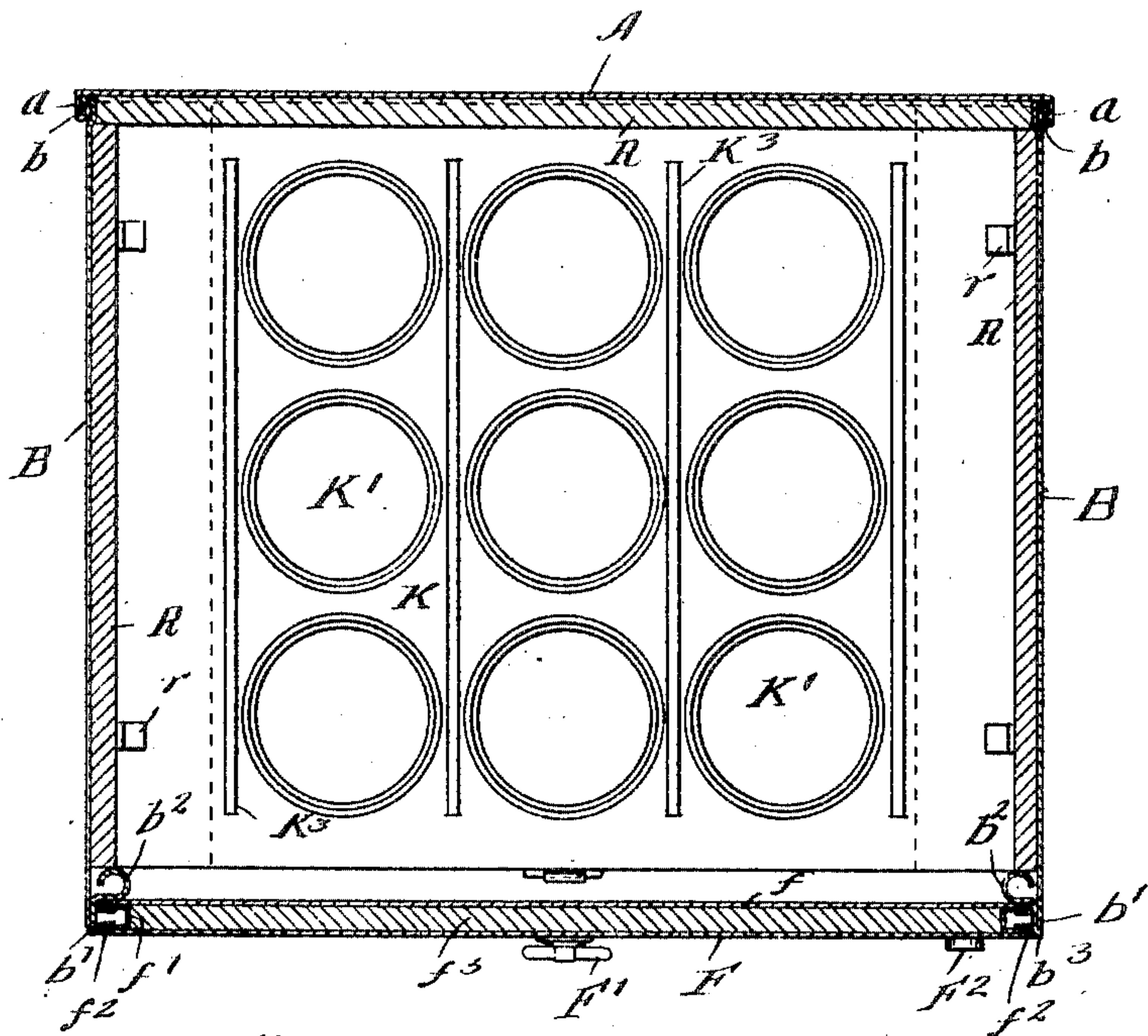
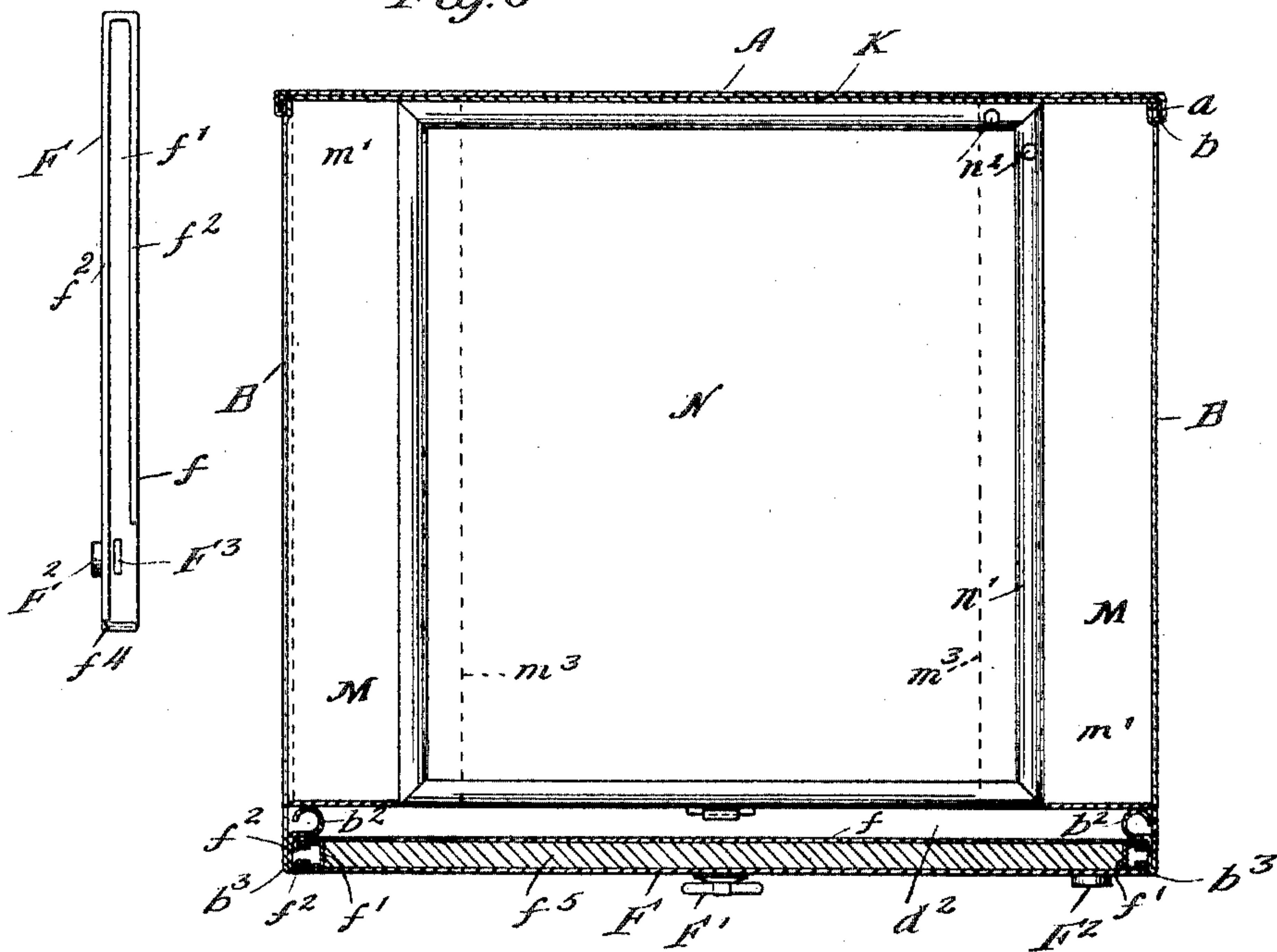


Fig. 7

Fig. 6



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UNITED STATES PATENT OFFICE.

HENRY MACARTHY, OF NEW YORK, N. Y., ASSIGNOR TO AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW JERSEY.

SHEET-METAL HUMIDOR.

No. 804,487.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed July 12, 1905. Serial No. 269,370.

To all whom it may concern:

Be it known that I, HENRY MACARTHY, a citizen of the United States, residing in borough of Brooklyn, New York city, in the county of Kings and State of New York, have invented a new and useful Improvement in Sheet-Metal Humidors or Receptacles for Preserving Tobacco and other Articles in Properly Damp Condition, of which the following is a specification.

My invention relates to improvements in humidors or receptacles for preserving and keeping damp tobacco and other articles.

The object of my invention is to provide a humidor of a simple, neat, strong, and durable construction, suitable for dampening and keeping damp tobacco, cigars, and other articles, and which may be conveniently opened and closed.

My invention consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown and described and by which I accomplish this object or result.

In the accompanying drawings, forming a part of this specification, Figure 1 is a perspective view of a sheet-metal humidor embodying my invention. Fig. 2 is a 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 vertical section on line 4 4 of Fig. 3. Fig. 5 is a horizontal section on line 5 5 of Fig. 3. Fig. 6 is a horizontal section on line 6 6 of Fig. 3, and Fig. 7 is a detail end view of the sliding and pivotal door.

The body of my improved humidor comprises a sheet-metal rear plate A and two sheet-metal end plates B, having interfolded flanges *a b* at the upright corners of the box, forming lock-seams uniting the sheet-metal end and rear side plates and which serve to strengthen and stiffen the sheet-metal humidor at its rear upright corners. The sheet-metal end plates B B are furnished at their front upright edges with internal folds *b'*, terminating in upright cylindrical rolls *b''*, preferably each somewhat less than a half-inch in diameter, which folds and cylindrical rolls serve not only to strengthen and stiffen the open front of the humidor or receptacle, but also to provide a stop or shoulder for the sliding and pivotal door to shut and fit against. The folds *b'* also provide the sheet-metal sides with a smooth and rounded front edge *b''*, so

that the hand cannot be cut or injured in putting in or removing cigars, tobacco, or other articles from the humidor, as would be the case if the upright sheet-metal end plates of the humidor had raw or single-thickness end edges. The sheet-metal top plate C of the humidor is provided with right-angle flanges *c* at its end and back edges embracing the rear and end side plates A B and securely united thereto by soldering or otherwise. At their upper horizontal edges the rear and end plates A B are furnished with right-angle flanges *a'* *b'*, respectively, which serve to stiffen and strengthen the humidor at its top and also form a flat ledge or bearing for the top plate C to fit upon and engage. The top plate C is provided at its front end with an integral roll *c'*, preferably about a half-inch in diameter, which serves to strengthen and stiffen the open front of the humidor at the top thereof and to give a smooth finish to the front edge of the top plate C and a neat and ornamental appearance to the humidor.

The sheet-metal bottom plate D of the humidor is secured to the upright rear plate A and end plates B by interfolded or lock seams *d*. The sheet-metal bottom plate D is provided at its front edge with an internal fold *d'*, terminating in a substantially cylindrical roll *d''*, corresponding to the cylindrical rolls *b''* *b''* on the upright end plates B B, said rolls *d'* and *b''* *b''* being securely soldered together at their meeting ends at the lower corners of the humidor. The cylindrical roll *d'* on the bottom plate provides a shoulder for the lower edge of the sliding and pivotal door F to fit against, and it also serves to strengthen and stiffen the bottom plate of the humidor at its front edge.

G G are hollow triangular sheet-metal guides or ribs secured to the end plates B B, on the inside thereof, and extending from the upper ends of the cylindric rolls *b''* *b''* and preferably somewhat upwardly inclined. These guides or ribs G G are soldered at their outer ends to the rolls *b''* *b''* and also to the end plates B B of the humidor, thus materially strengthening and stiffening the same and the structure as a whole and also serving as guides for the pivotal and sliding door F. The sheet-metal door F is provided with an inner sheet-metal plate *f* and with flanged or channeled guides *f'* *f'*, united to the inner and outer plates F *f* of the door by flanges

f^2 f^3 thereon, which embrace the flanges of the channel-guides f' . The channel-guides f' thus unite the two door-plates F f at the ends thereof and also afford a sliding and pivotal connection for the door with the pivot pins or rivets H H , which are secured to the vertical end plates B B of the humidor near the upper front corners thereof. The pivot pins or rivets H H are inserted not only through the front plates B , but through the inner plates b' thereof and securely soldered in place, thus giving a firm and strong support to the pivots upon which the door F turns and slides. At its upper edge the outer plate F of the door is furnished with a right-angle flange f^3 , which closes the upper ends of the channels or guideways of the door at the ends thereof. A similar flange f^4 at the lower edge of the outer plate F of the door closes the lower ends of the pivot channels or ways of the door and also affords a smooth finish to the lower edge of the door, as well as to unite the inner and outer plates of the door, said flange being soldered or otherwise secured to the inner plate f of the door. The door F is furnished with a ring F' for opening and closing the same and also preferably furnished with a lock F^2 , the bolt of which engages a lip F^3 , secured to the upright end plate B of the box.

The humidor is provided with a raised perforated sheet-metal bottom plate K , having a series of openings or perforations K' therein and preferably provided with right-angle end flanges K^2 , soldered to the end plates B B , and a right-angle flange K^4 , fitting against the rear plate A and extending to the bottom plate D of the humidor and upon which perforated bottom plate K the boxes of cigars, tobacco, or other articles to be dampened and kept moist are supported. The openings K' in the bottom plate may be made of any desired number or size, according to the degree of humidity desired. The open or perforated bottom plate K is provided with raised ribs or beads K^3 to stiffen the same and to prevent the articles to be dampened from resting flat upon the same.

M M are sheet-metal guides for supporting the water-pan, each having a right-angle flange m soldered to the perforated bottom plate K and each provided with a shoulder or upright flange m' and a step or horizontal flange m^2 , terminating in a roll m^3 , which rests upon the bottom plate D , so that the water-pan N will be supported somewhat above the bottom plate D . The rolls m^3 extend from the roll d^2 at the front edge of the bottom plate to the rear plate A and in connection with the water-pan guides M , of which they form a part, serve to strengthen and stiffen the sheet-metal humidor at its lower portion, as well as to form a guide for the water-pan and a support and stiffener for the perforated plate K , upon which the articles in the humidor rest.

The steps or horizontal flanges m^2 of the sheet-metal water-pan guides M are preferably slightly lower than the upper surface of the front roll d^2 of the bottom plate D , so that this front roll d^2 will serve as a rounded stop to engage the lower front corner of the water-pan N and prevent the same from accidentally slipping out in handling or moving the humidor about when its door is open. The water-pan N is preferably of sheet-zinc and may be preferably formed in one piece, its upright flanges or sides n being suitably united or soldered together at the corners. The upright sides or flanges n of the water-pan N are furnished with inturned rolls n' , preferably substantially cylindric in form and united together at the corners by solder or otherwise and which serve not only to strengthen and stiffen the water-pan, but also to give the upper edges of its upright sides a smooth finish and also materially lessen the danger of the water in the pan spilling or splashing out as the water-pan is slipped in and out. At one of the corners of the water-pan the rolls n' are furnished with one or more holes n^2 to facilitate the emptying of water out of the pan. The double-plate sliding and pivotal door of the humidor may preferably be further stiffened and strengthened by a filling f^5 , of wood or other material, interposed between the outer and inner plates F f of the door.

To better adapt the humidor for the preservation of cigars, it may be furnished with a cedar lining R on its upright rear and end sides or other parts. The cedar or other lining R is preferably secured in place by sheet-metal cleats r , soldered to the sheet-metal plates of the humidor. The cedar or other wood lining R also serves to strengthen and stiffen the sheet-metal humidor.

I claim—

1. A sheet-metal humidor comprising in combination sheet-metal end, rear, top and bottom plates seamed together at their meeting edges, said bottom and end plates having inturned folds and rolls at the front to strengthen and stiffen the same and to form a shoulder for the door to fit against, and said top plate having a roll at its front, a raised perforated bottom plate, water-pan guides beneath said raised perforated bottom plate, a removable water-pan, guides for the door secured on the insides of the end plates, pivots for the door secured to the end plates, and a sliding pivotal door having guideways at the ends thereof engaging the door-pivots on the end plates, substantially as specified.

2. A sheet-metal humidor, having end, rear, top and bottom plates and an open front, a pivotal and sliding door closing said front, door-guides at the upper portion of the end plates on the inside thereof, water-pan guides at the lower portion of the end plates on the inside thereof, said guides serving to strengthen and stiffen the end plates, a raised perforated

plate and a water-pan, substantially as specified.

3. A sheet-metal humidor, having end, rear, top and bottom plates and an open front, a pivotal and sliding door closing said front, door-guides at the upper portion of the end plates on the inside thereof, water-pan guides at the lower portion of the end plates on the inside thereof, said guides serving to strengthen and stiffen the end plates, a raised perforated plate and a water-pan, said bottom plate having a fold and roll at its front edge for the door to shut against, substantially as specified.

4. A sheet-metal humidor, having end, rear, top and bottom plates and an open front, a pivotal and sliding door closing said front, door-guides at the upper portion of the end plates on the inside thereof, water-pan guides at the lower portion of the end plates on the inside thereof, said guides serving to strengthen and stiffen the end plates, a raised perforated plate and a water-pan, said end plates having a fold and roll at their front for the door to fit and shut against, substantially as specified.

5. In a humidor, the combination with sheet-metal end plates and bottom plate, of a raised perforated plate and water-pan guides M having right-angle flange m , depending flange or shoulder m' , horizontal flange or step m^2 and rolls m^3 , substantially as specified.

6. In a humidor having top, bottom, rear and end plates, and an open front, door-pivots secured to the end plates, and a sliding pivotal door having outer and inner plates, and channel-guides fitting between said outer and inner door-plates at the ends thereof, and secured thereto, substantially as specified.

7. In a humidor having top, bottom, rear and end plates, and an open front, door-pivots secured to the end plates, and a sliding pivotal door having outer and inner plates, and channel-guides fitting between said outer and inner door-plates at the ends thereof, and secured thereto, one of said door-plates having right-angle flanges at the upper and lower edges of the door to close the guideways or channels at the ends of the door, substantially as specified.

8. The combination with the end plates having door-pivots secured thereto, of a sliding and pivotal door, having an outer plate and an inner plate and channel-guides between and at the ends of said plates and uniting the same, substantially as specified.

9. The combination with the end plates having door-pivots secured thereto, of a sliding and pivotal door, having an outer plate and an inner plate and channel-guides between and at the ends of said plates, and uniting the same, said outer plate of the door having flanges at its upper and lower edges secured to the inner plate, substantially as specified.

10. The combination with the end plates having door-pivots secured thereto, of a sliding and pivotal door, having an outer plate, an inner plate and channel-guides between and at the ends of said plates, and uniting the same, said outer plate of the door having flanges at its upper and lower edges secured to the inner plate, said end plates having folds and rolls at their front upright edges, substantially as specified.

11. A sheet-metal humidor comprising in combination sheet-metal end, rear, top and bottom plates seamed together at their meeting edges, said bottom and end plates having inturned folds and rolls at the front to strengthen and stiffen the same and to form a shoulder for the door to fit against, and said top plate having a roll at its front, a raised perforated bottom plate, water-pan guides beneath said raised perforated bottom plate, a removable water-pan, guides for the door secured on the insides of the end plates, pivots for the door secured to the end plates, and a sliding pivotal door having guideways at the ends thereof engaging the door-pivots on the end plates, said end and rear plates having a cedar lining and provided with cleats for securing the same thereto, substantially as specified.

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Witnesses:

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