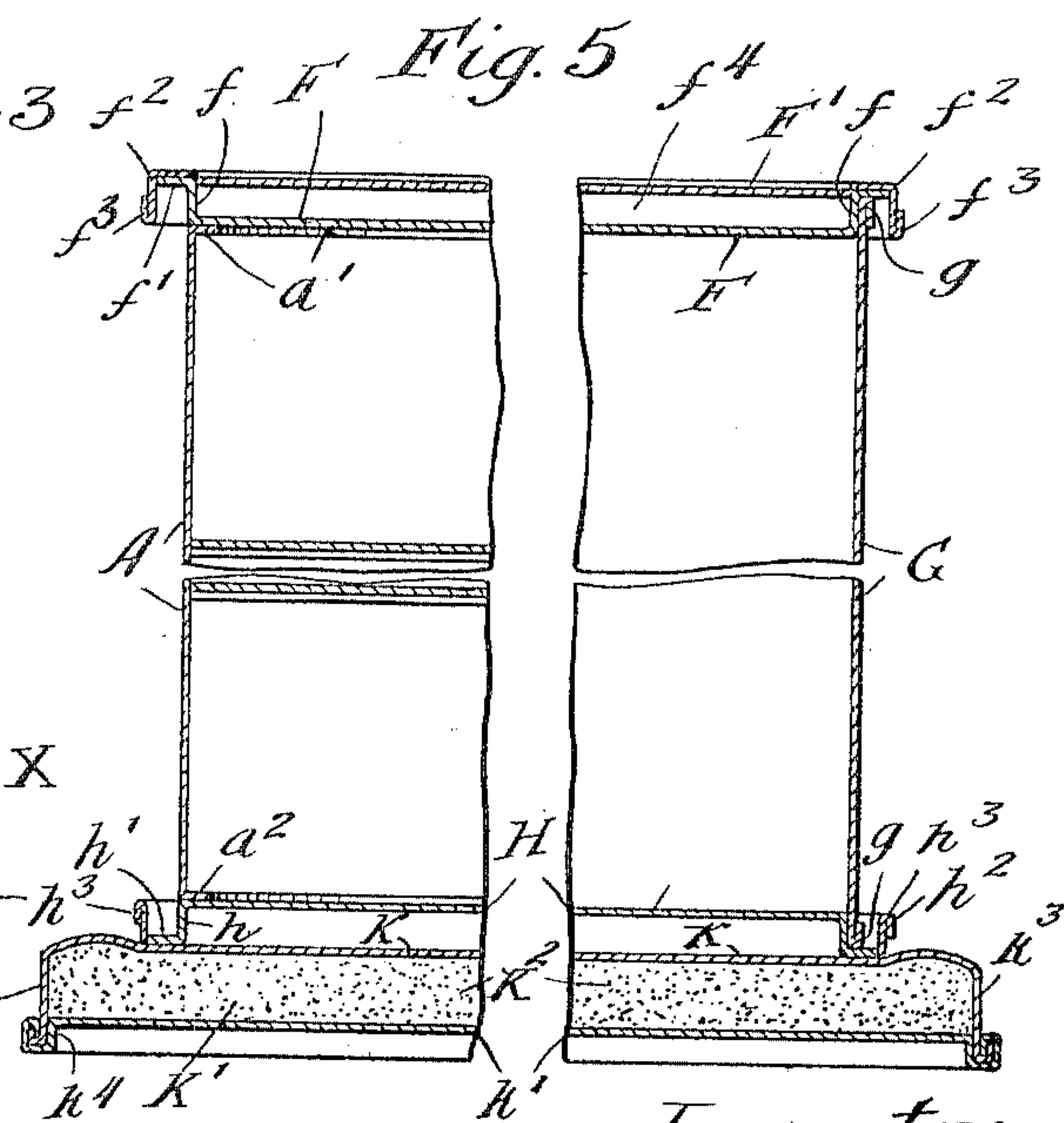
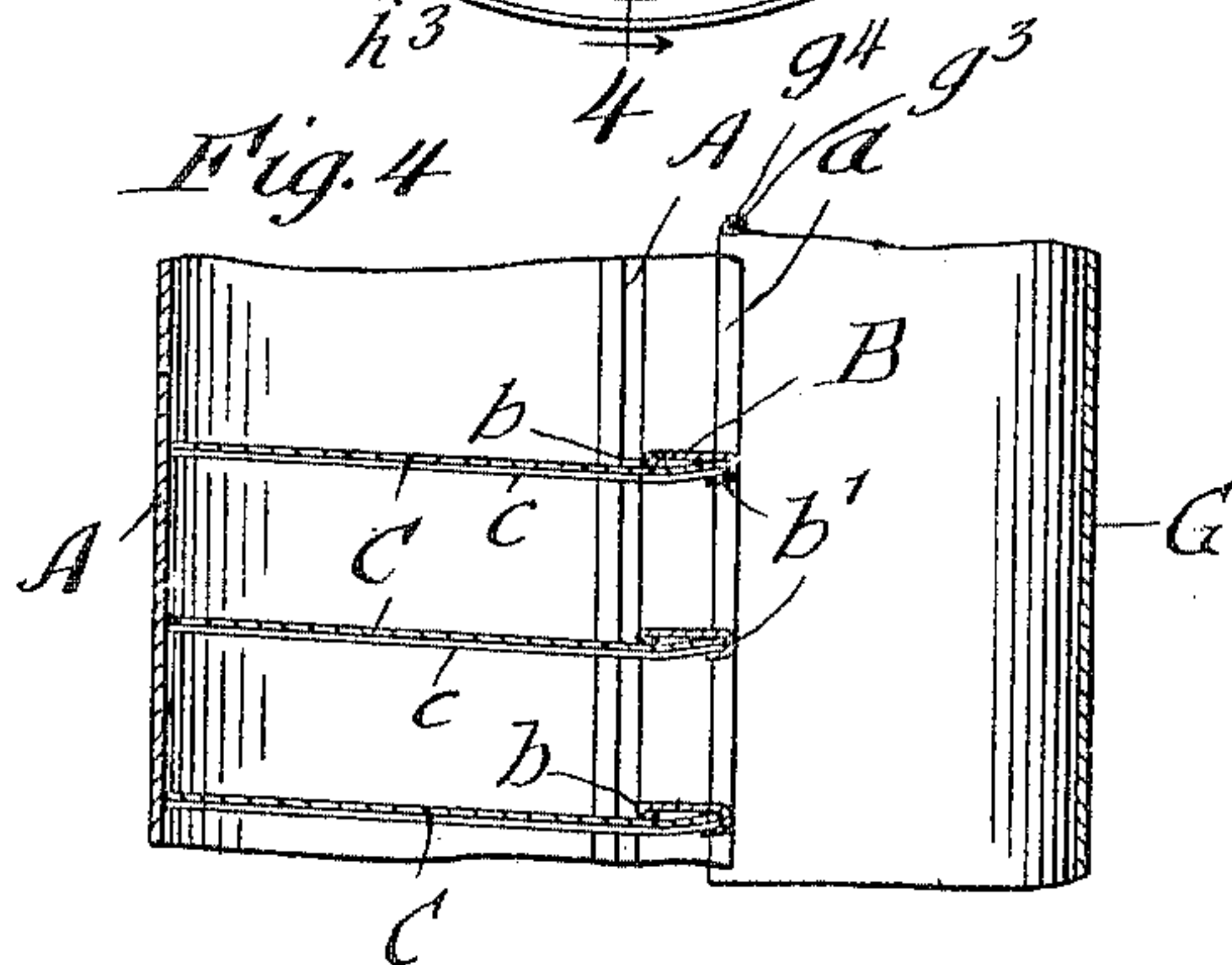
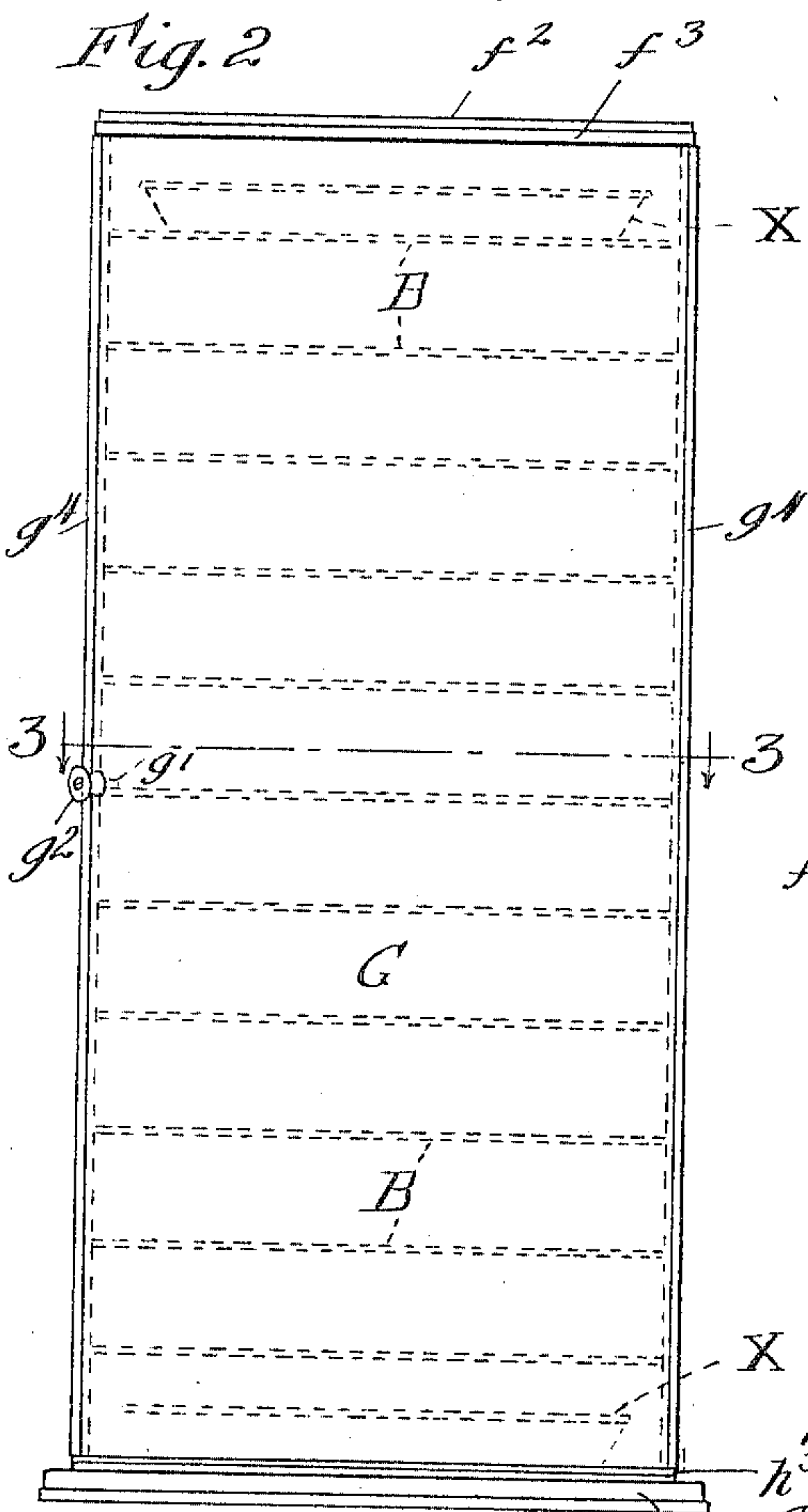
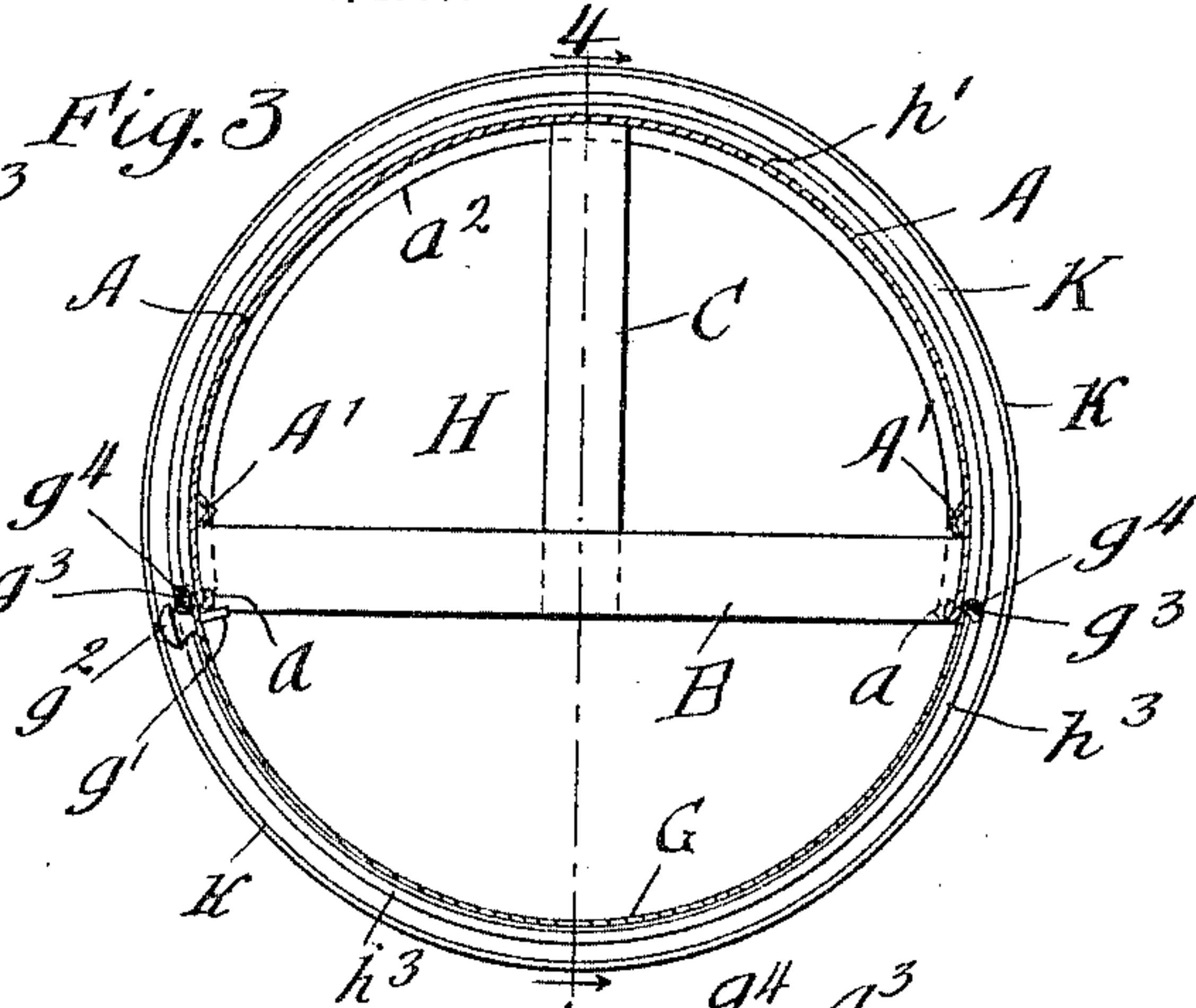
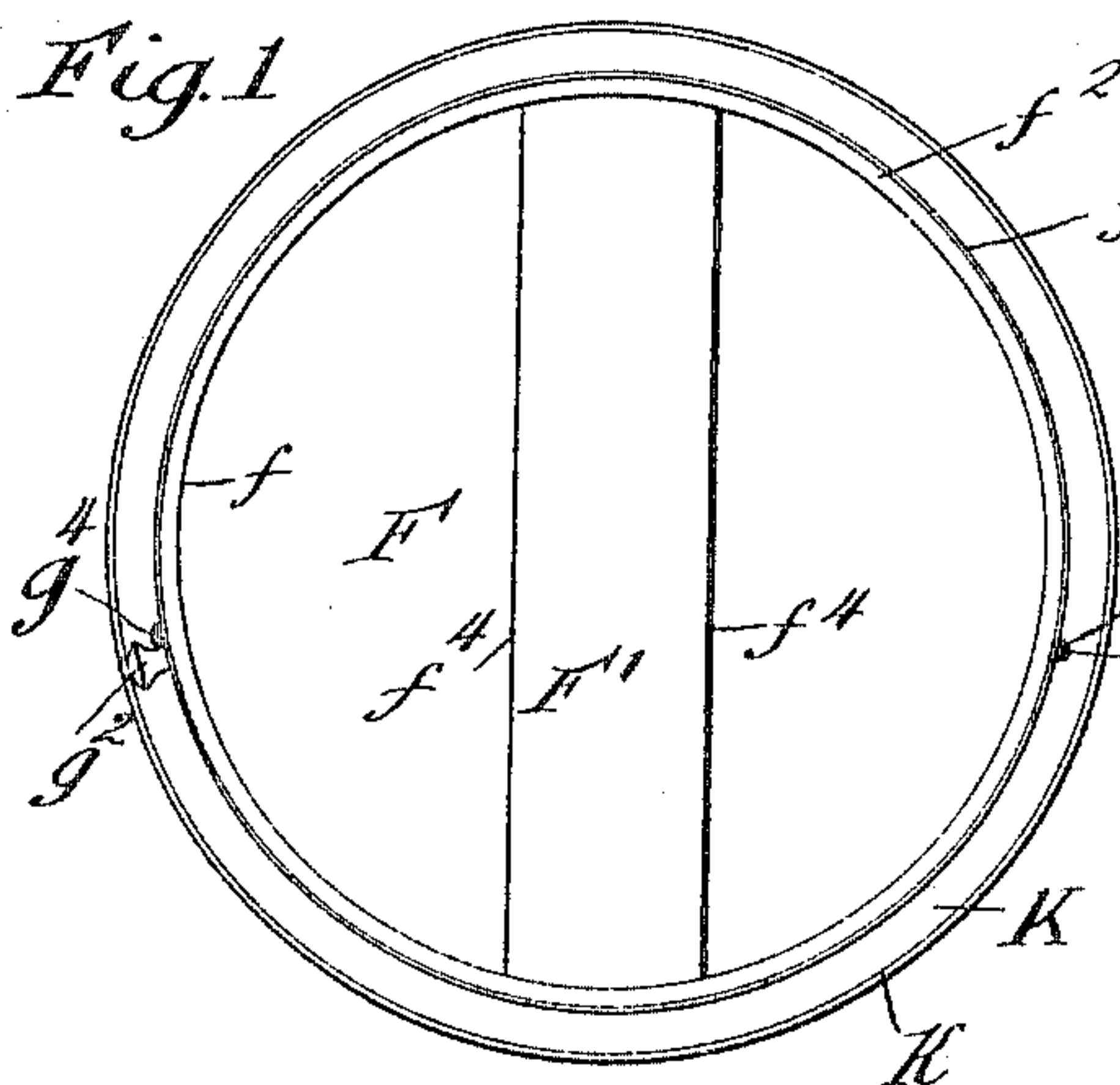


B. H. KANNENBERG.
PIE RACK CASE OR HOLDER.

APPLICATION FILED AUG. 7, 1906.



Witnesses:

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UNITED STATES PATENT OFFICE.

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AMERICAN CAN COMPANY, OF NEW YORK, N. Y., A CORPORATION
OF NEW JERSEY.

PIE-RACK CASE OR HOLDER.

No. 804,539.

Specification of Letters Patent.

Patented Nov. 14, 1905.

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To all whom it may concern:

Be it known that I, BALDWIN H. KANNENBERG, a citizen of the United States, residing in Oak Park, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Pie-Rack Cases or Holders, of which the following is a specification.

My invention relates to improvements in pie racks or holders for containing and protecting pies during transportation and while they are being dispensed, used, or sold.

The object of my invention is to provide a sheet-metal pie-rack case of a simple, efficient, durable, and sanitary construction and by means of which the pies may be inclosed and protected from dust, dirt, and flies and which at the same time may be readily opened and closed for putting the pies in and taking them out and which will be of a neat appearance.

My invention consists in the means I employ to practically accomplish this object or result—that is to say, it consists in a sheet-metal pie-rack case comprising a cylindric shell or body portion somewhat exceeding a semicircle in circumference, an opening and closing cylindric door portion preferably about a semicircle in circumference and when closed adapted to complete the cylinder of the shell or body portion and adapted to slide around said cylindric shell or body portion when opened, a series of sheet-metal front and right-angle rack-strips secured to the cylindric shell or body portion of the case to form racks or shelves to support the pies individually, a countersunk top plate having a guide ring or flange secured thereto to form a circular guide-groove to receive the upper edge of the semicircular door and to guide the same in its opening and closing movement, a bottom plate having an annular right-angle flange, and a base having an upper member or plate furnished with an annular flange or ring to form in conjunction with the annular flange of the bottom plate an annular guide or groove to receive the lower end of the semicylindric door, said base also having a lower member or plate to give additional strength and stiffness to the base and form a weight-receiving chamber to give the requisite stability to the case as a whole.

My invention also consists in the novel devices and novel construction of parts and de-

vices herein shown and described, and specified in the claims.

In the accompanying drawings, forming a part of this specification, Figure 1 is a top or plan view of a sheet-metal pie-rack case embodying my invention. Fig. 2 is a front view showing the sheet-metal pie-rack strips in dotted lines. Fig. 3 is a horizontal section on line 3 3 of Fig. 2. Fig. 4 is a partial vertical section on line 4 4 of Fig. 3, and Fig. 5 is an enlarged detail vertical section to more fully show the construction.

In the drawings, A represents the semicylindric shell or body portion of the case, the same being somewhat in excess of a semicircle, so that the pie-pans X may enter within the same for considerably more than a half portion thereof, as will be readily understood from the dotted lines in Fig. 3. The sheet-metal cylindric shell A is furnished at its upright front edges with folds or flanges *a* to strengthen and stiffen the same and give a smooth edge. To further strengthen and stiffen the shell A, it is furnished on the inside thereof with upright sheet-metal angle-strips A' A', securely soldered thereto, preferably about an inch back of the front upright edges of the shell A. The sheet-metal cylindric shell A is further provided with a series of sheet-metal front pie-rack strips B, having double folds or flanges *b b'* at the side edges thereof. The front rack-strips B are securely soldered at their ends to the shell A. The right-angle sheet-metal rack-strips C extend from the middle portion of each of the front rack-strips B to the back portion of the shell A, the rack-strips C having folds or flanges *c* at the edges thereof and said strips C being securely soldered at their inner ends to the shell A and at their front ends embraced within the double folds or flanges *b b'* at the extreme front edge of the front rack-strips B. The front and right-angle rack-strips B C being soldered to the thin sheet-metal shell A of the case serve to brace, strengthen, and stiffen the shell A, as well as to serve as supports for the pie-pans inclosed therein.

The top F of the case is furnished with an upright flange *f*, forming a countersink in the sheet-metal top plate, and also with a horizontal flange *f'*, and this top plate F is provided with a guide-ring *f²*, soldered to or

formed integral with the top plate and having a marginal fold or flange f^3 . The guide-ring f^2 forms, in conjunction with the upright flange f and horizontal flange f' , an annular guide groove or channel to receive the upper end of the semicylindric door G. The countersunk top plate F is securely soldered or otherwise secured to the semicylindric shell A of the case, said shell A having at its upper end a horizontal flange a' to strengthen and stiffen the shell and to afford a means for attaching the top plate F thereto. The upright flange f of the top plate F is thus concentric with the shell A, as will be readily understood from Fig. 5 of the drawings.

The semicylindric sheet-metal door G has a fold or flange g at its upper end to strengthen and stiffen the same and give a smooth end bearing for the door in the annular guide or groove on the under face of the top plate.

H is the bottom plate, the same being securely soldered to the horizontal flange a^2 on the lower end of the shell A. The bottom plate H has a depending flange h concentric with the shell A to form the inner annular wall of the lower guide-groove for the lower end of the semicylindric sliding door G. The bottom plate H also has a horizontal flange h' , which, in conjunction with the guide-ring or flange h^2 having folds h^3 , completes the annular guide or groove for the lower end of the semicylindric door G.

The sheet-metal base K has an upper member or plate k and a lower member or plate k' , having an annular flange k^2 embracing the depending flange k^3 of the upper member or plate of the base and firmly soldered or seamed or otherwise secured thereto. The upper and lower plates or members k k' of the base form a hollow chamber K' in the base to receive weight or filling material K² to give the requisite weight to the base and stability to the structure as a whole.

The rotary sliding semicylindric door G is furnished with a stop-pin g' on the inside thereof, which by its engagement with the upright edges a of the semicylindric or segmental shell A serves as a stop to limit both the opening and the closing movements of the rotary sliding door. The stop-pin g' also serves as a means for attaching the knob or handle g^2 on the outside of the semicylindric or segmental door. The segmental door G is strengthened and stiffened and its upright edges by wires g^3 inclosed within folds or rolls g^4 at the upright edges of the door.

The top plate F is furnished with a strengthening-plate F', extending diametrically across the countersink of the top plate and soldered at its ends to the upright flange f of the plate F and provided with side flanges f^4 , which are soldered to the top plate F.

The lower plate k' of the base has a right-angle annular flange k^4 , thus giving a countersink form to this lower plate and forming with

the flange k^4 a downwardly-projecting peripheral ring for the base.

As the segmental cylindric shell or body A is of sheet metal and of slight thickness and as the rotary sliding segmental cylindric door G is also of sheet metal and of slight thickness, the door G may rotatably slide around the shell A, while the diameters of the curves of these two parts may still differ but slightly from each other, so that the case as a whole will present a neat and symmetrical appearance from all points of view and whether the door is open, partially open, or closed.

I claim—

1. The sheet-metal pie-rack case herein shown and described, and comprising a segmental cylindric shell or body portion provided with a series of front rack-strips and right-angle rack-strips soldered thereto on the inside thereof to brace and strengthen the shell and support the pie-pans, a top plate furnished on its under side with an annular guide-groove at the rim thereof, a bottom plate and a base furnished on the upper side thereof with an annular guide groove or channel, and a segmental cylindric rotary sliding door fitting at its ends in said annular guide grooves or channels, substantially as specified.

2. The sheet-metal pie-rack case herein shown and described, and comprising a segmental cylindric shell or body portion provided with a series of front rack-strips and right-angle rack-strips soldered thereto on the inside thereof to brace and strengthen the shell and support the pie-pans, a top plate furnished on its under side with an annular guide-groove at the rim thereof, a bottom plate and a base furnished on the upper side thereof with an annular guide groove or channel, a segmental cylindric rotary sliding door fitting at its ends in said annular guide grooves or channels, said segmental cylindric shell or body portion being provided on its inside with upright angular strengthening-strips, substantially as specified.

3. The sheet-metal pie-rack case herein shown and described, and comprising a segmental cylindric shell or body portion, provided with a series of front rack-strips and right-angle rack-strips soldered thereto on the inside thereof to brace and strengthen the shell and support the pie-pans, a top plate furnished on its under side with an annular guide-groove at the rim thereof, a bottom plate and a base furnished on the upper side thereof with an annular guide groove or channel, and a segmental cylindric rotary sliding door fitting at its ends in said annular grooves or channels, said top plate having an upright integral annular flange, a horizontal annular flange and a guide-ring secured thereto, substantially as specified.

4. The sheet-metal pie-rack case herein shown and described, and comprising a segmental cylindric shell or body portion, pro-

vided with a series of front rack-strips and right-angle rack-strips soldered thereto on the inside thereof to brace and strengthen the shell and support the pie-pans, a top plate 5 furnished on its under side with an annular guide-groove at the rim thereof, a bottom plate and a base furnished on the upper side thereof with an annular guide groove or channel, and a segmental cylindric rotary sliding 10 door fitting at its ends in said annular grooves or channels, said top plate having an upright integral annular flange, a horizontal annular flange and a guide-ring secured thereto and having a folded lower edge, substantially as 15 specified.

5. In a sheet-metal pie-rack case, a segmental cylindric shell A, having folded upright edges α , upright angular brace-strips A', and provided with a series of front brace and pie 20 supporting strips B having folded edges $b b'$, substantially as specified.

6. In a sheet-metal pie-rack case, a segmental cylindric shell A, having folded upright edges α , upright angular brace-strips A' pro-

vided with a series of front brace and pie sup- 25 porting strips B having folded edges $b b'$, and upright angle-brace and pie supporting strips C, substantially as specified.

7. In a sheet-metal pie-rack case, the combination with a segmental cylindric shell A, a 30 top plate F furnished on its under side with a guide-channel, a bottom plate H furnished with a guide-channel, and a segmental cylindric rotary sliding door G, substantially as specified. 35

8. In a sheet-metal pie-rack case, the combination with a segmental cylindric shell A, a top plate F furnished on its under side with a guide-channel, a bottom plate H furnished 40 with a guide-channel, a segmental cylindric rotary sliding door G, and a base K having an upper plate and a lower plate with a weight or filling material chamber between to give stability to the case, substantially as specified.

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Witnesses:

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