

No. 698,061.

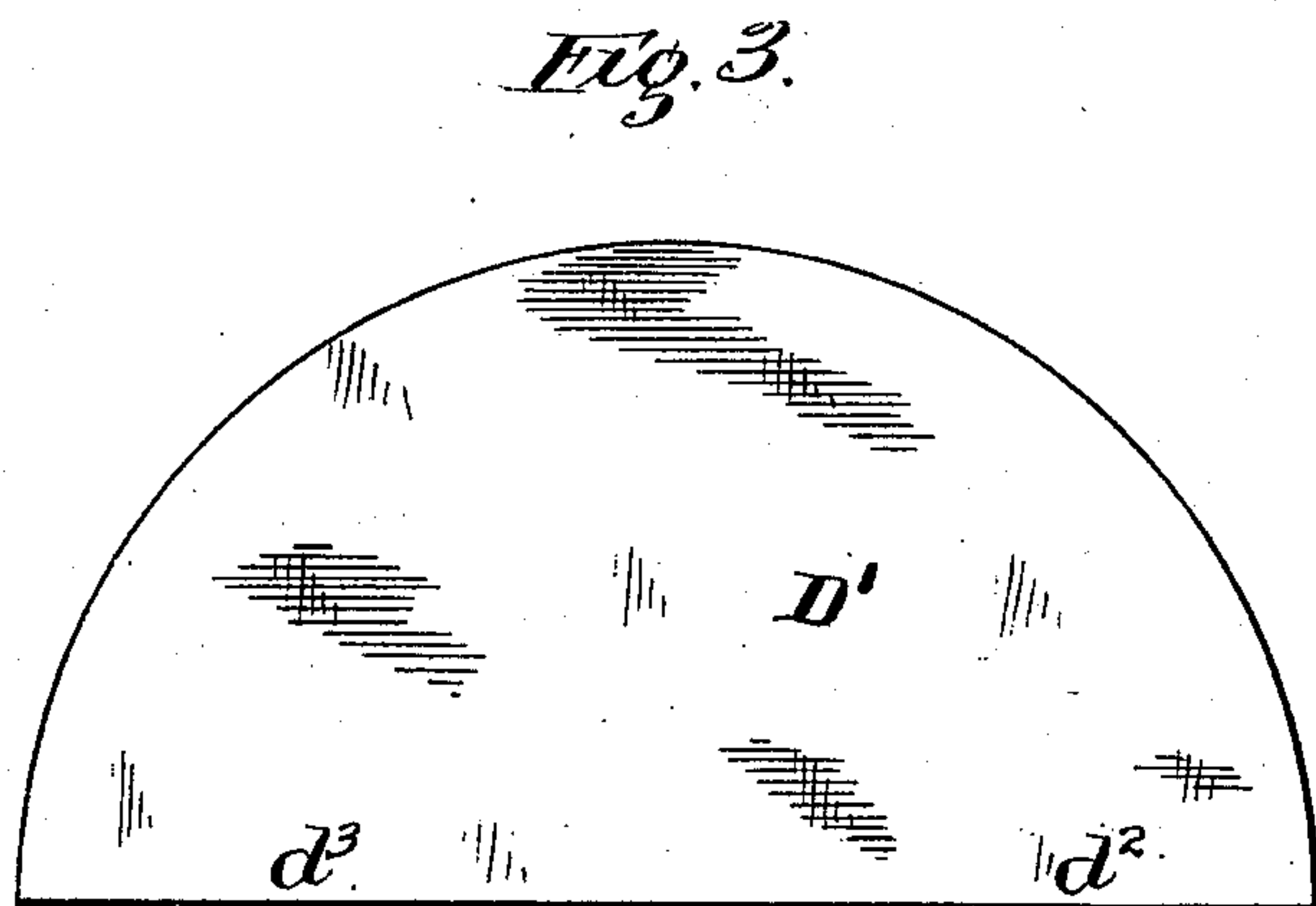
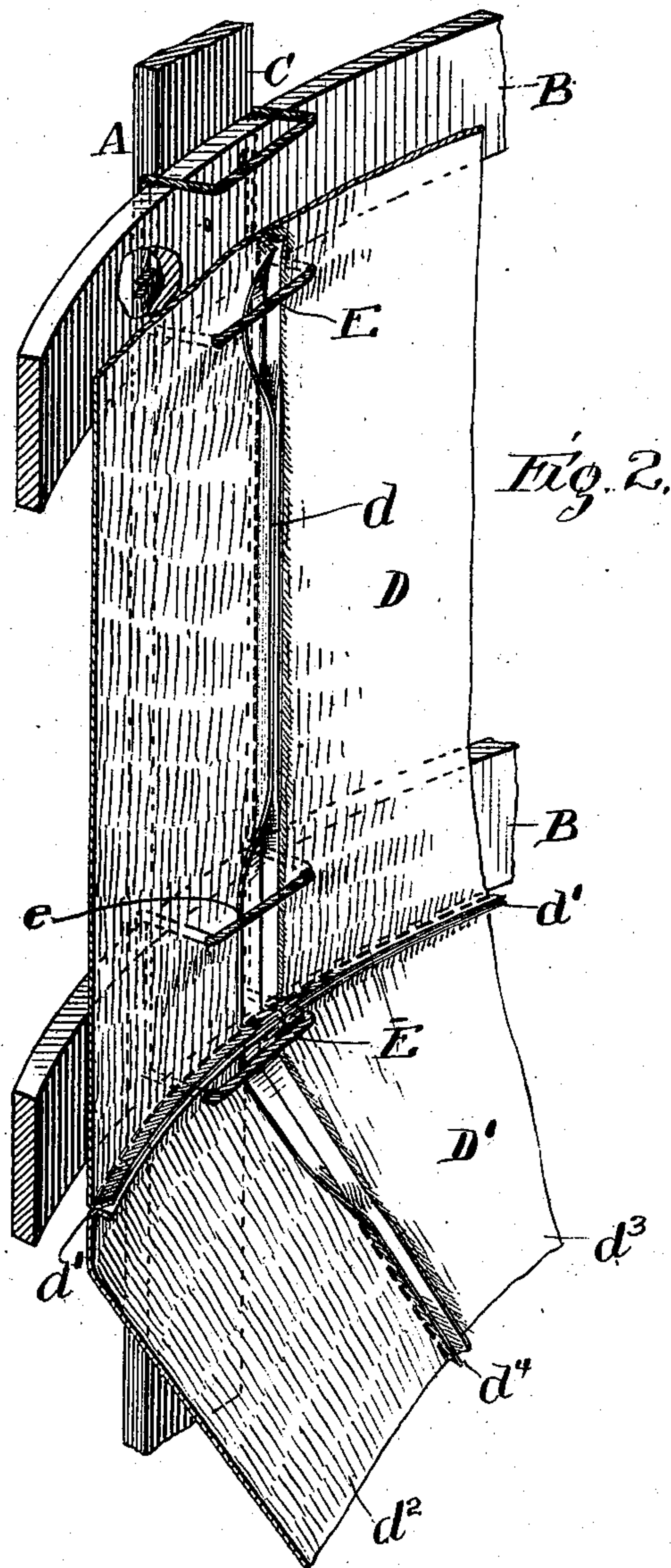
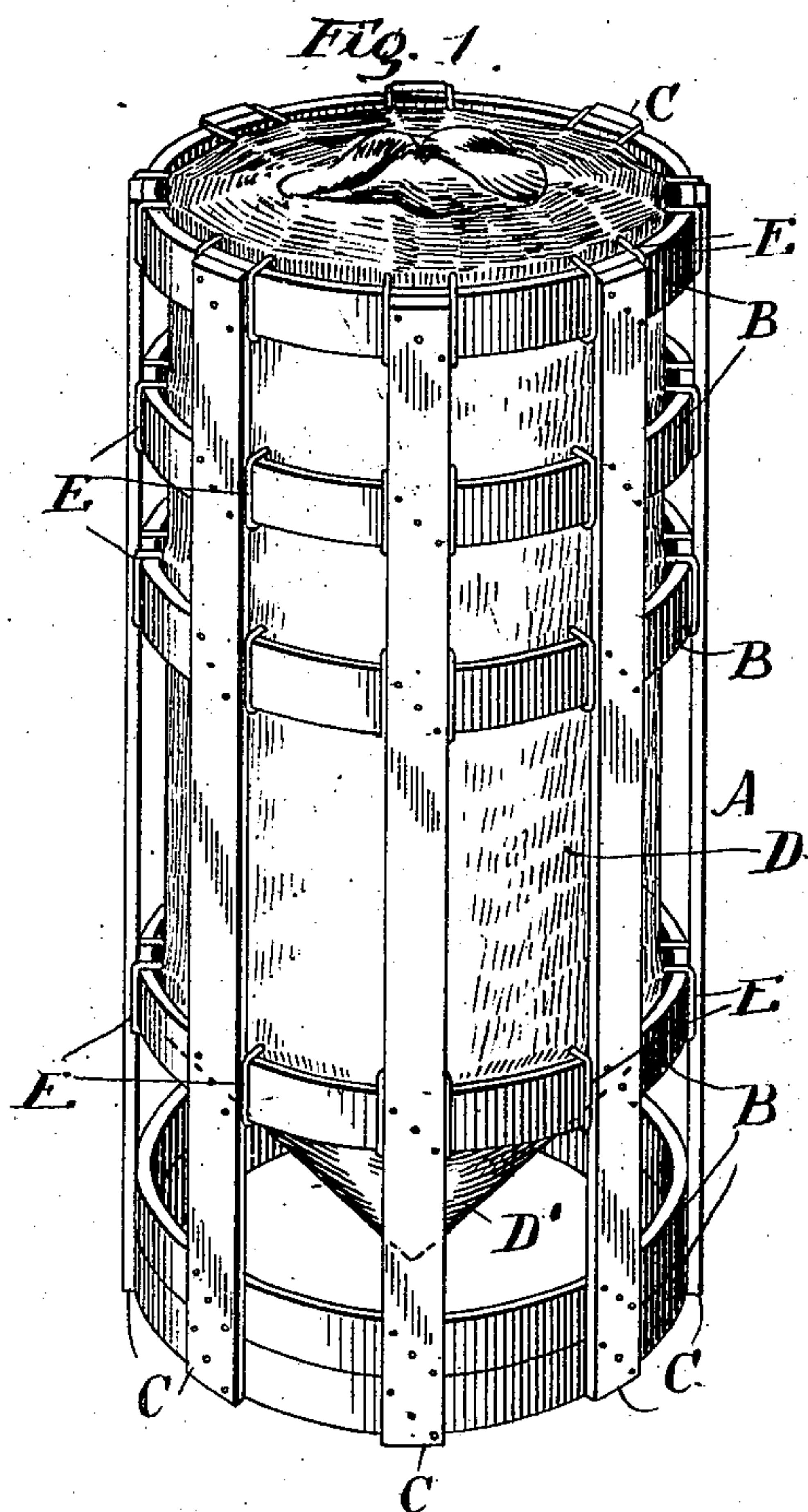
Patented Apr. 22, 1902.

F. SCHMITZ.
BANANA SHIPPING CASE.

(Application filed Oct. 8, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:
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2 Sheets—Sheet 2.

Fig. 4.

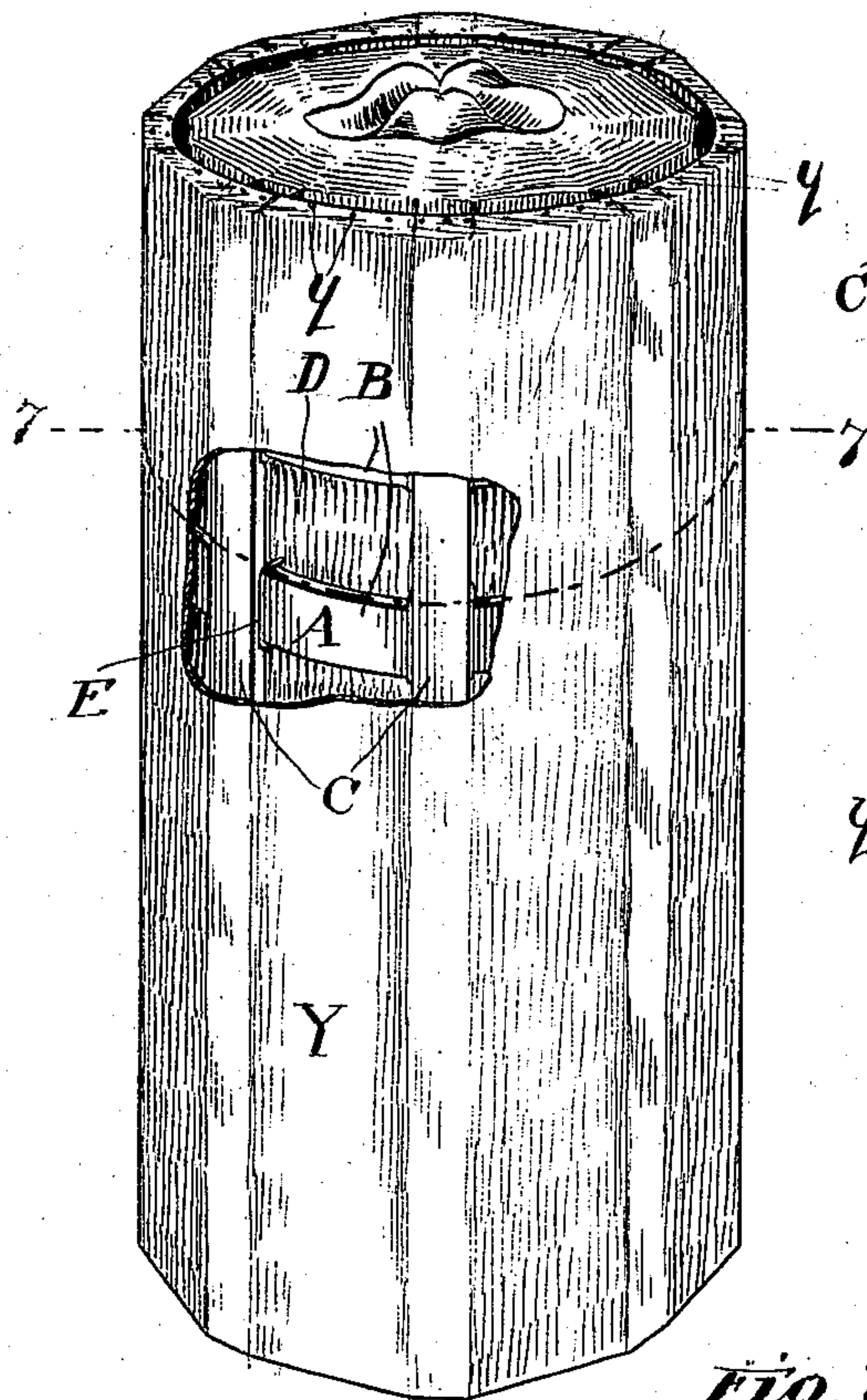


Fig. 5.

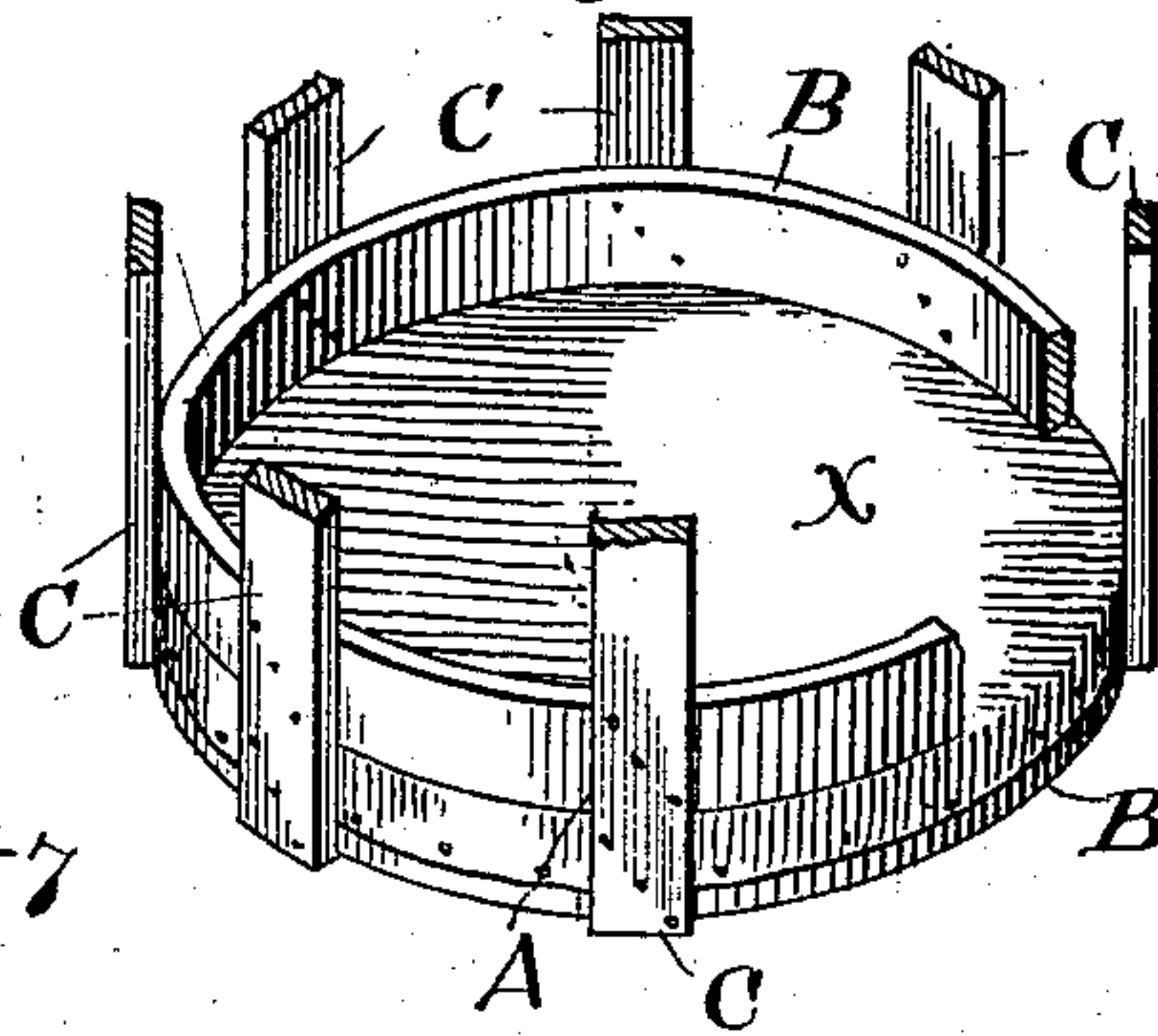


Fig. 6.

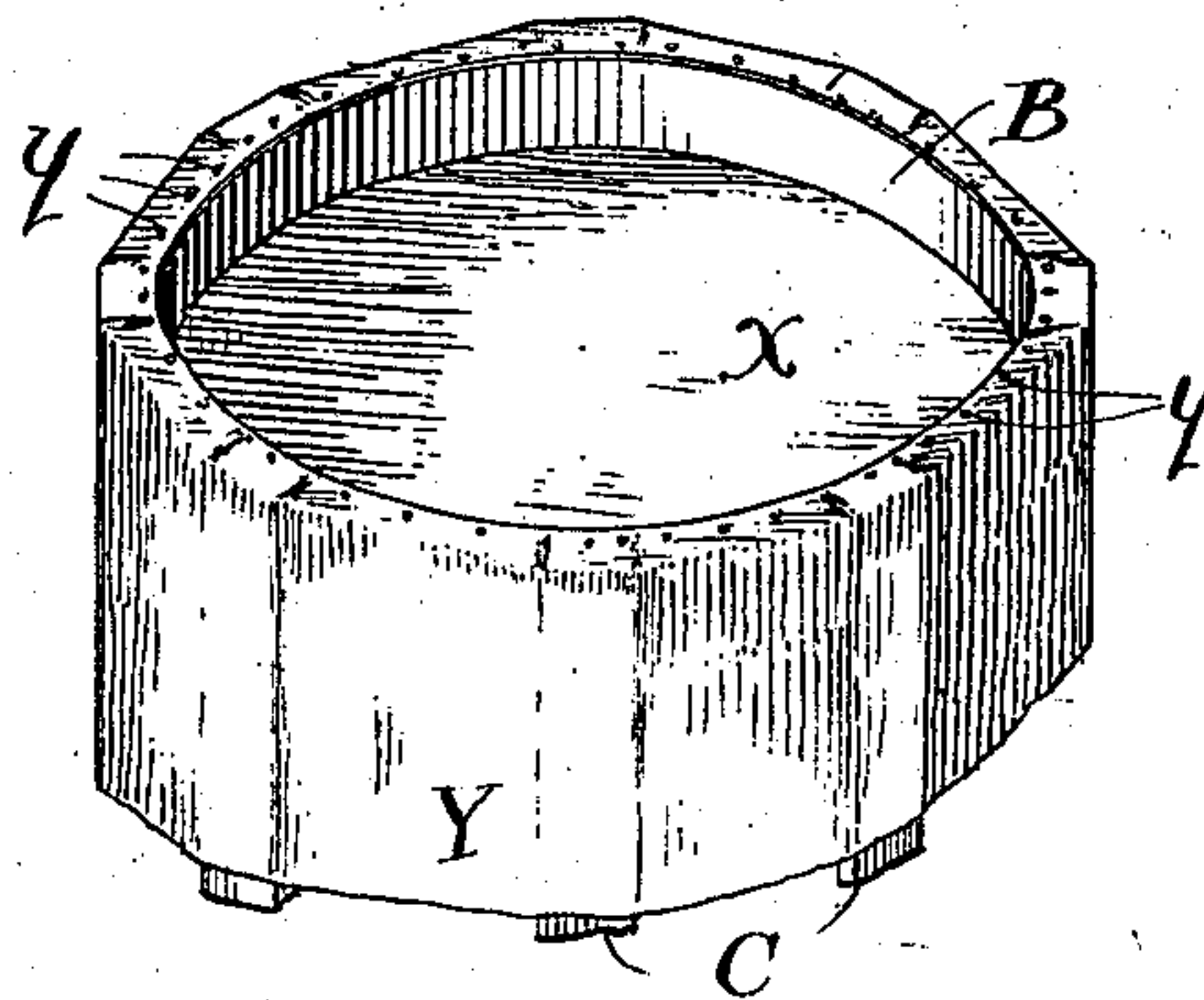
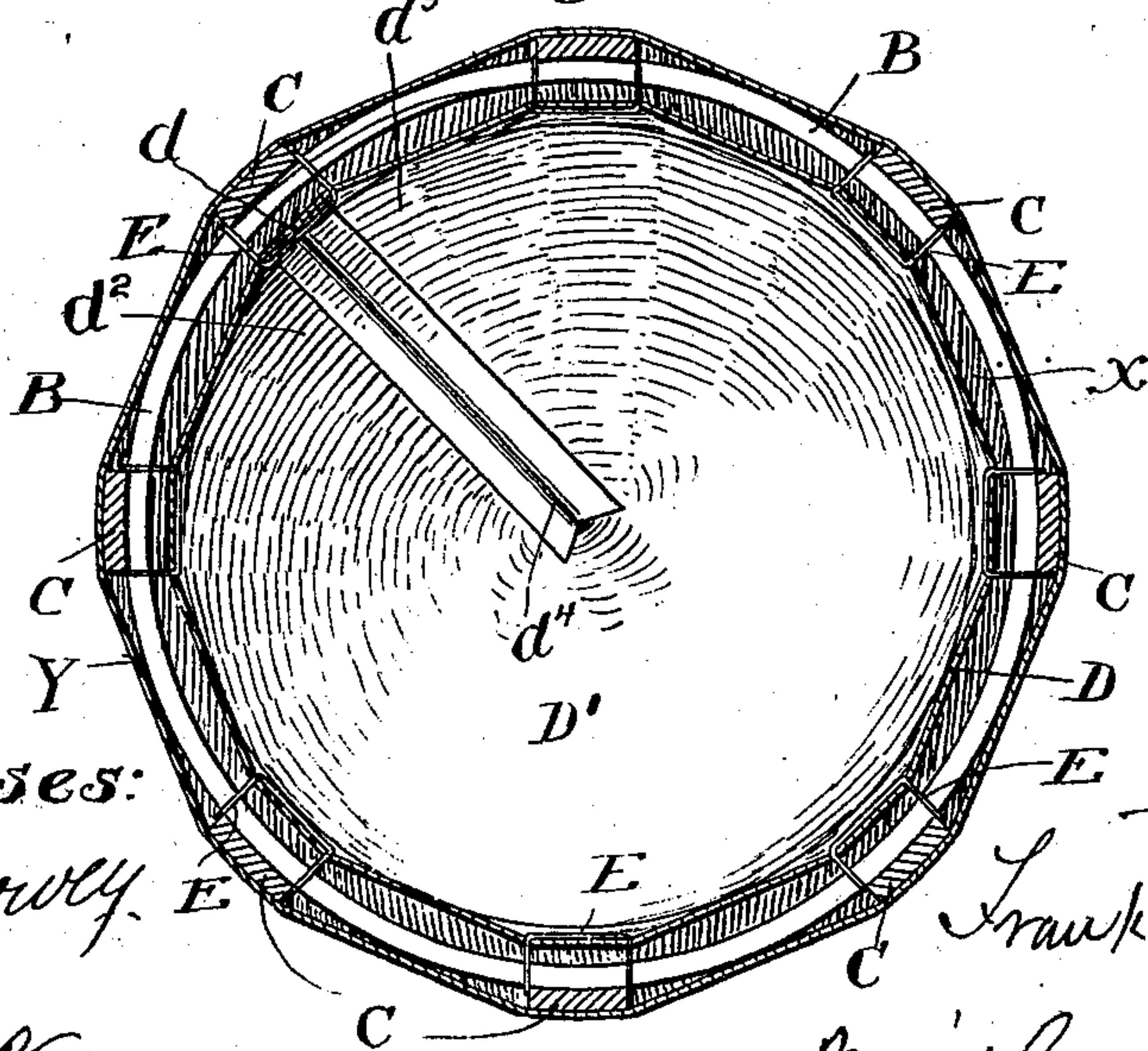


Fig. 7.



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Inventory

Frank Schmitz

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UNITED STATES PATENT OFFICE.

FRANK SCHMITZ, OF CHICAGO, ILLINOIS.

BANANA-SHIPPING CASE.

SPECIFICATION forming part of Letters Patent No. 698,061, dated April 22, 1902.

Application filed October 8, 1900. Serial No. 32,318. (No model.)

To all whom it may concern:

Be it known that I, FRANK SCHMITZ, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Banana-Shipping Cases, of which the following is a specification.

My invention relates to certain improvements in banana-shipping cases of the class in which a flexible bag or sack is supported within and preferably out of contact with a comparatively rigid but somewhat elastic crate, so as to avoid bruising the fruit contained in the sack.

More particularly the present invention has to do with the construction of the sack and the means by which the same is hung within the crate, the object being to strengthen the case and at the same time economize in material.

To such end the invention consists in certain novel features, which will be described and defined below.

The invention is illustrated in the drawings by means of the figures, of which—

Figure 1 is a perspective of a complete case. Fig. 2 is a sectional perspective showing the interior of a portion of the crate and sack to illustrate the means by which the sack is fastened to the crate. Fig. 3 is a plan view of the blank from which the bottom of the sack is constructed. Fig. 4 is a view similar to Fig. 1, showing an additional improvement. Fig. 5 is a broken sectional detail showing the bottom of the outer covering. Fig. 6 is a perspective of the banana-case inverted to show the entire bottom, and Fig. 7 is a horizontal section in plane 7 7 of Fig. 4.

Referring to these figures, A is the crate, made up of a series of hoops B, secured together by longitudinal slats C, two hoops being preferably provided at the bottom, and all of these parts being of such material and size as to give the crate a certain amount of elasticity. Within the crate is hung a sack D, secured to the crate by means of cords E. The main portion of the sack is made by sewing a rectangular piece of material—as, for instance, burlap—into cylindrical form by means of a longitudinal seam d and sewing around the bottom of the same by means of a seam d' a bottom D', formed from a piece

of semicircular material, (shown in Fig. 3,) by sewing the portions $d^2 d^3$ upon opposite sides of the middle portion d^5 together to form a cone, the cone being then sewed to the bottom portion by means of the seam d' , which secures the circular edge of the bottom to the upper portion of the sack. This produces a sack with the minimum amount of material, and in fastening the same to the crate the cord (shown at e in Fig. 2) is passed inward on one side of the seam d and back on the other side, then over one of the hoops, then inward below the seam d' and on one side of the seam d^4 , then outward on the other side of the seam d^4 and below the seam d' , and secured to the opposite end of the cord outside of the hoop. This gives the cord at this point a hold upon both sides of the longitudinal seam and both sides of the circular seam, relieving the threads of said seams from any strain which might be put upon them by the cord. In other portions of the crate the same method is followed, except that at no other place do the longitudinal and circular seams intersect, so that the advantage of the method is only gained to the extent of the opportunity offered by the conditions at each place.

In the additional improvement illustrated in Figs. 4 to 7 an outer bottom X is stretched across the lower hoop B, as seen in Fig. 5, and an outer covering Y stretched over the entire crate and secured to the same, preferably by turning it inward at top and bottom and securing it by nails y . This serves as an additional protection against external cold or heat, inasmuch as the air between the sack and the outer covering is partially confined and retards the transmission of heat in either direction.

It is not necessary to follow the exact construction herein described, although the same is preferable, because more or less variation is possible without departing from the invention.

I claim as new and desire to secure by Letters Patent—

1. The combination with a surrounding crate and a sack hung within the same, having a circumferential seam and an intersecting longitudinal seam, of a cord passing inward on one side of the longitudinal seam,

- outward on the other side of the longitudinal seam about the crate, inward again on the other side of the circumferential seam, thence across the longitudinal seam and outward on the same side on the circumferential seam and secured to the crate so that the cord engages and supports all four corners of the sack about the intersecting seams; substantially as described.
2. In a shipping-case, the combination with a surrounding crate, of a bag hung within the same consisting of a cylindrical portion and a conical portion formed from a semicircular piece of material by sewing the portions of the straight edge on opposite sides of the middle together, and the circular edge to the one end of the cylindrical portion; substantially as described.
3. In a banana-shipping case, the combination with a suitable crate, composed of longitudinal slats and connecting-hoops, of a sack hung in said crate and securely fastened in

place out of contact therewith, an outer bottom, X, fastened to the lower hoop and an outer covering suitably secured to the outside of the crate, and inclosing said crate; substantially as described.

4. In a banana-shipping case, the combination with a suitable crate, composed of longitudinal slats and connecting-hoops, of a sack hung within the said crate and securely fastened in place out of contact therewith, an outer bottom, X, fastened to the lower hoop and an outer covering suitably secured to the top and bottom hoops of the crate and inclosing said crate; substantially as described.

In witness whereof I have hereunto set my hand, at Chicago, in the county of Cook and State of Illinois, this 24th day of September, A. D. 1900.

FRANK SCHMITZ.

Witnesses:

CHAS. O. SHERVEY,
S. BLISS.