

(No Model.)

G. E. GRIMM.
PACKING BOX.

No. 532,954.

Patented Jan. 22, 1895.

FIG. 1

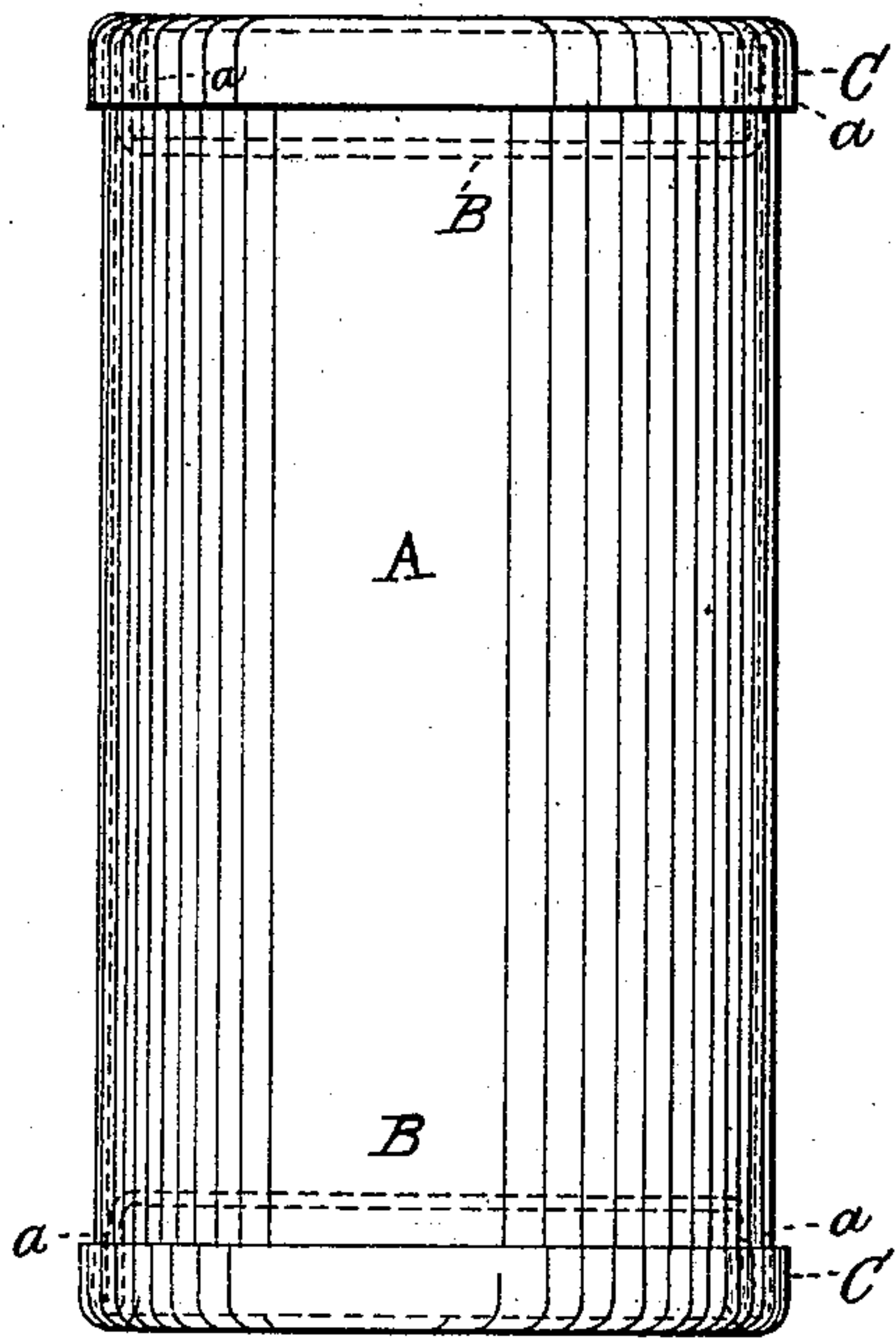


FIG. 2

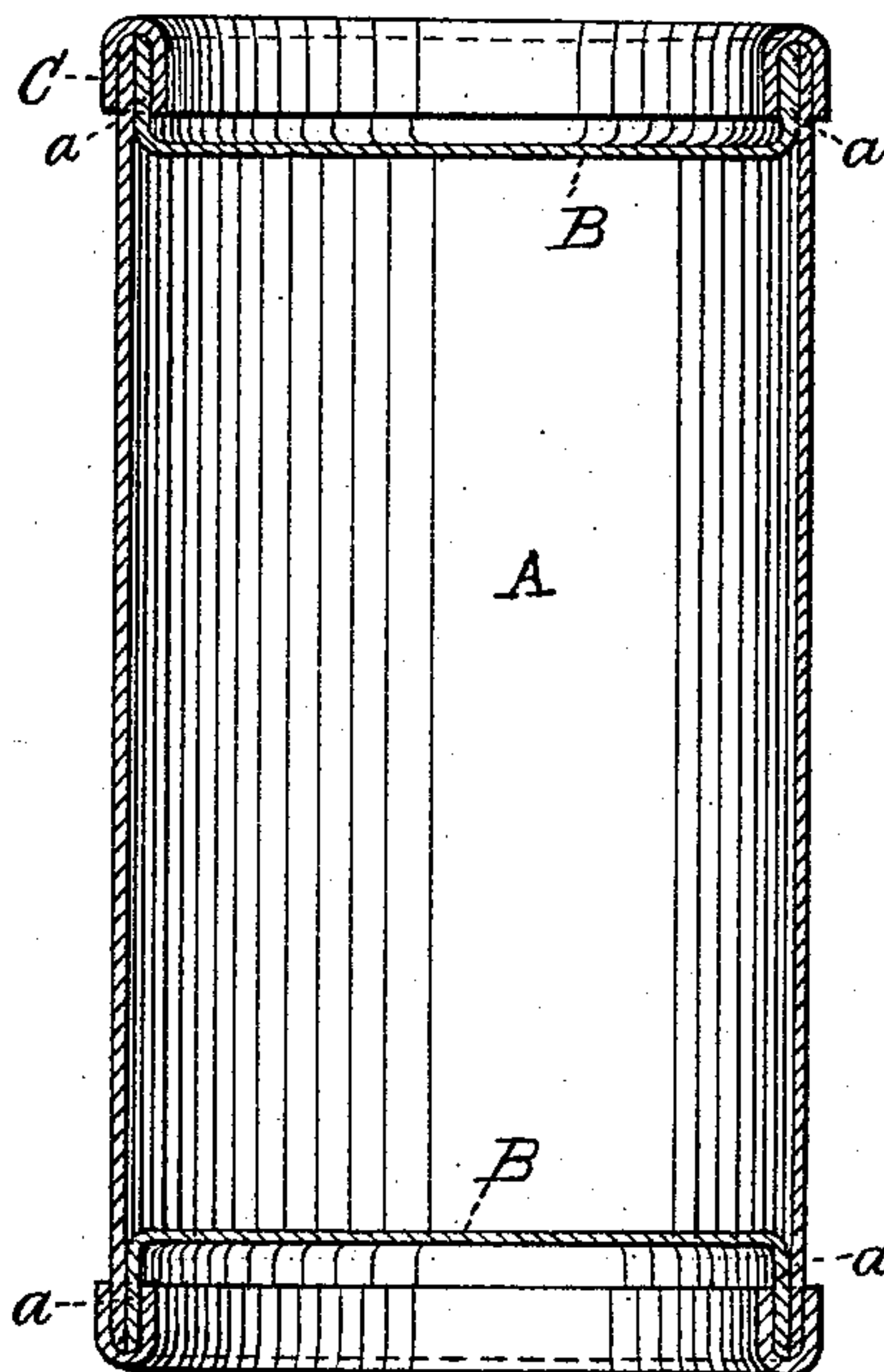


FIG. 3



FIG. 4

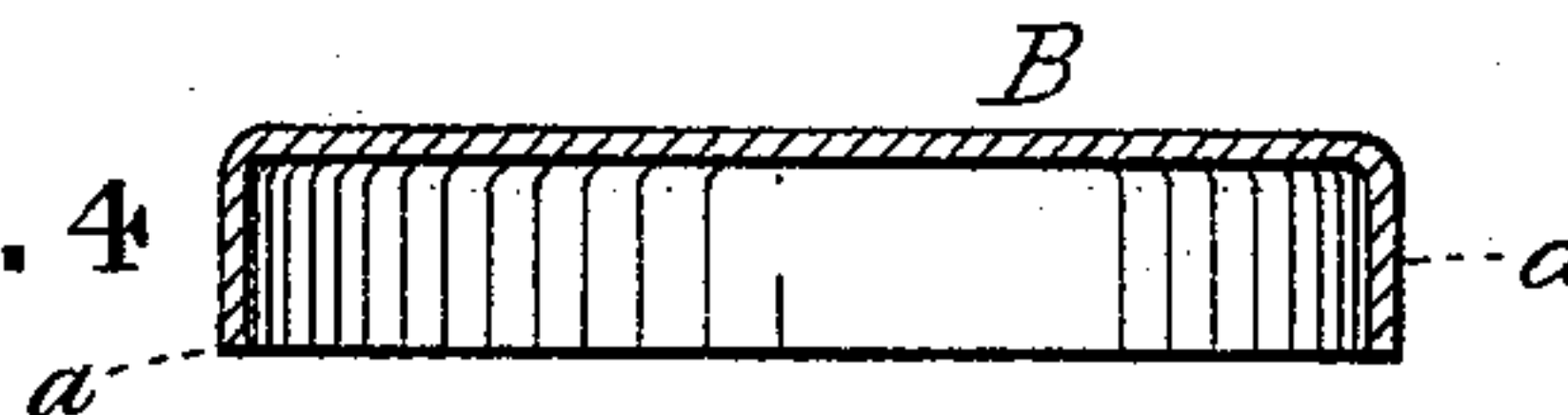


FIG. 5

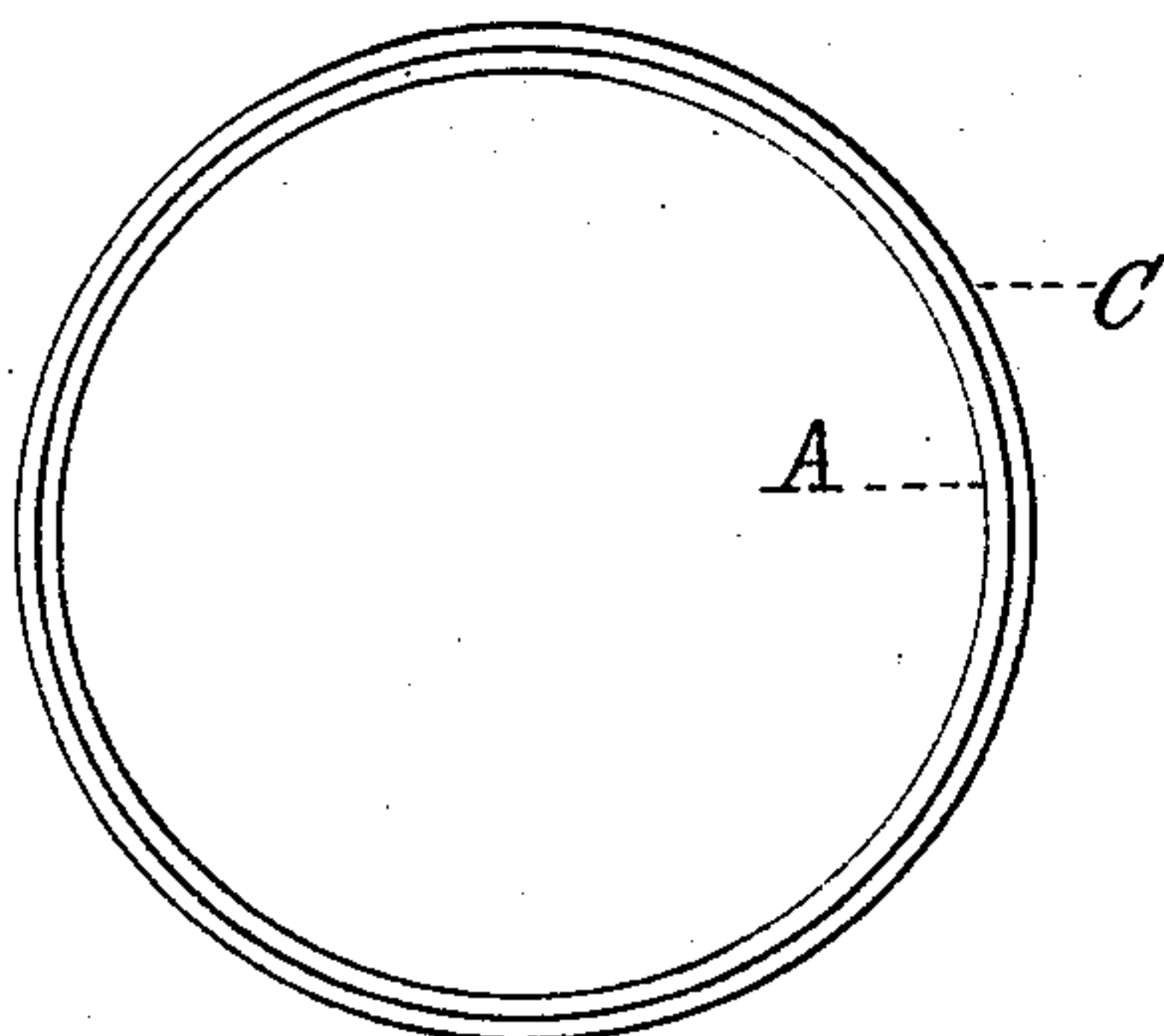
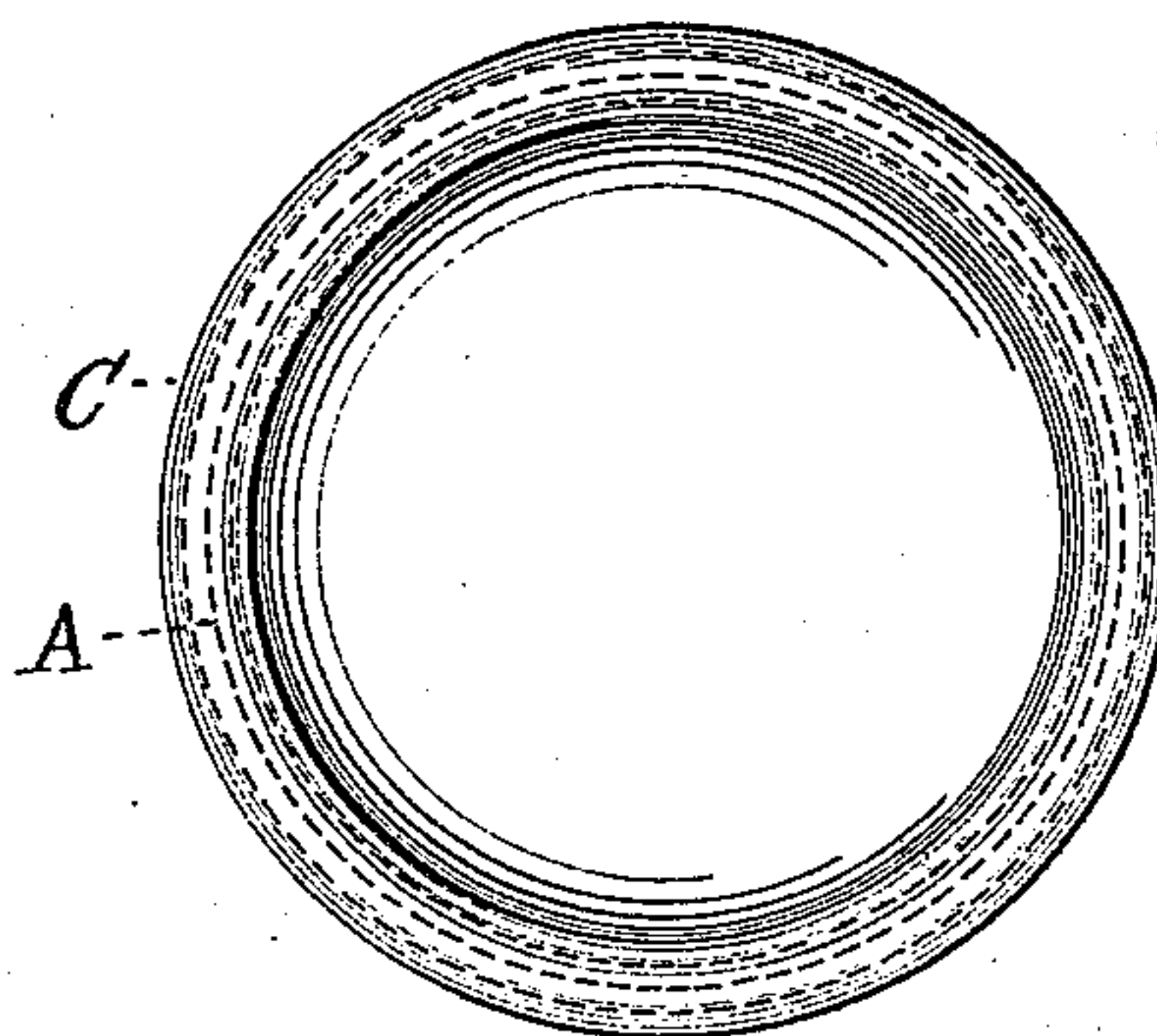


FIG. 6



WITNESSES.

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Nyle T. Wilson.

INVENTOR.

Gerhardt E. Grimm.
per Thomas J. Bewley atty

UNITED STATES PATENT OFFICE.

GERHARDT E. GRIMM, OF CAMDEN, NEW JERSEY.

PACKING-BOX.

SPECIFICATION forming part of Letters Patent No. 532,954, dated January 22, 1895.

Application filed April 20, 1894. Serial No. 508,284. (No model.)

To all whom it may concern:

Be it known that I, GERHARDT E. GRIMM, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented certain new and useful Improvements in Packing-Boxes for Containing Merchandise, of which the following is a specification.

The object of this invention is the formation, or construction in a neat, durable and economical manner of a packing-box, for receiving and containing commodities, or any articles of merchandise, and consists of a box constructed with a wooden, or paper wall, so joined at its edges as to form either a cylindrical, or rectangular incasing structure, and having an inverted bottom, or base plate of equivalent material, and whose contour, or superficial area, is of the same area of the inner surface of the wall, and provided with a dependent encircling flange upon its circumference, bent at right angles thereto, the outer vertical surface of the flange fitting closely against the contiguous surface of the wall.

The edges, or ends of the incasing wall, and encircling flange of the bottom, or base plate, are bound together and retained in connection with each other by means of an encircling, or surrounding metallic U shaped channel which is crimped thereon, which action secures rigidity and coherence of the connected parts.

The lid, or cover, is constructed in the same manner, and is the equivalent of the bottom, or base plate, and when the box is filled with the desired contents, is connected with the upper, or opposing end to the bottom, and a corresponding U shaped channel placed in position and crimped thereon, in like manner.

The material of which the box is constructed may be coated, or impregnated with a solution of gum varnish, or paraffine, to prevent absorption of the contents, or external injury by exposure to the atmosphere.

In the accompanying drawings, which make a part of this specification, Figure 1, is a side elevation of the improved box. Fig. 2, is a vertical section. Fig. 3, is a horizontal section of the annular channel C. Fig. 4, is a like view of the flanged base B. Fig. 5, is a plan, or top view of the box with the cap removed. Fig. 6, is a plan view with the lid in position on the box.

Like letters of reference in all the figures indicate the same parts.

A, represents the incasing wall, or chamber of the box, which is represented in the drawings as being of cylindrical shape in its contour, or outline, which is constructed of pasteboard, of sufficient thickness and solidity to support and retain any matter contained within the box.

B, is the base plate, constructed of similar material as the wall A, and provided with a dependent encircling flange *a*, bent at right angles to the material composing the base, and whose outer surface is of equivalent area with the contiguous inner surface of the wall A, where they adjoin each other.

C, is the surrounding metallic annular U shaped, or channeled belt, which is placed in position, as seen clearly in Fig. 2, to clasp the lower ends of the wall A, and the lower edge of the contiguous flange *a*, of the base B. The connected parts are then crimped together by means of pressure exerted between a pair of circular rolls rotated by power, which clasps and binds together the connected parts.

A similar operation secures the lid, or cover in position, after the box has been filled with its contents.

The material of which the top, the wall, and the base are composed may be impregnated, or coated with a solution of gum varnish, paraffine, or equivalent substance, to render them impervious to the destructive action of oil, alkaline matter or water.

The box may be formed of any desired shape in its configuration—i. e., cylindrical, square, or polygonal.

I claim as my invention and desire to secure by Letters Patent—

The box, for containing articles of merchandise, having its incasing wall A, constructed of pasteboard, or other suitable substance, and impregnated with a gum varnish and with the inverted cup-shaped bottom and top, provided with encircling flanges *a*, extending vertically parallel with and crimped within the inner surface of the incasing wall, and the surrounding annular U shaped metallic channel belts C, for said top and bottom substantially in the manner herein shown and described for the purpose set forth.

GERHARDT E. GRIMM.

Witnesses:

THOMAS J. BEWLEY,
WYLE T. WILSON.