

(No Model.)

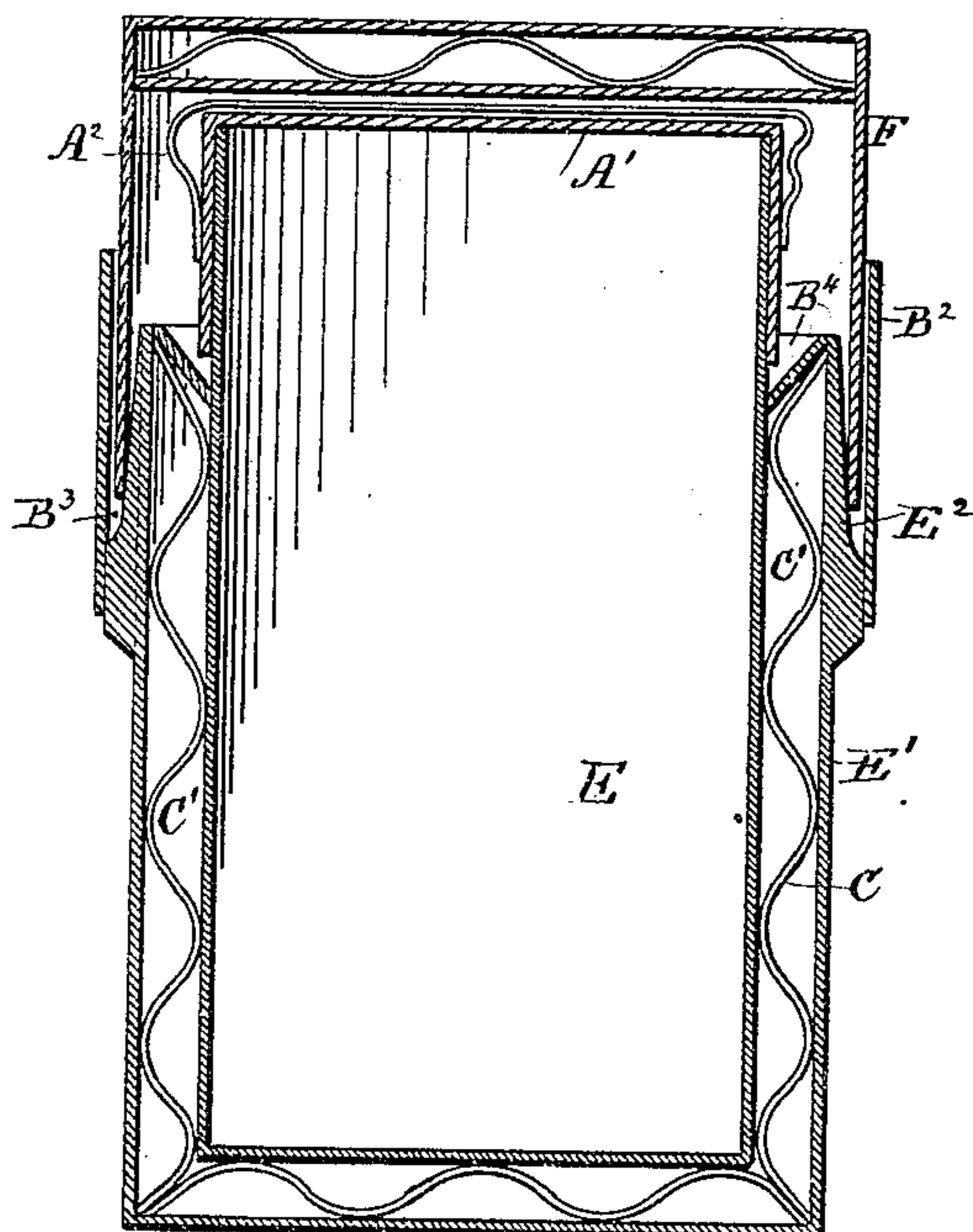
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PACKING BOX FOR FRUIT JARS, &c.

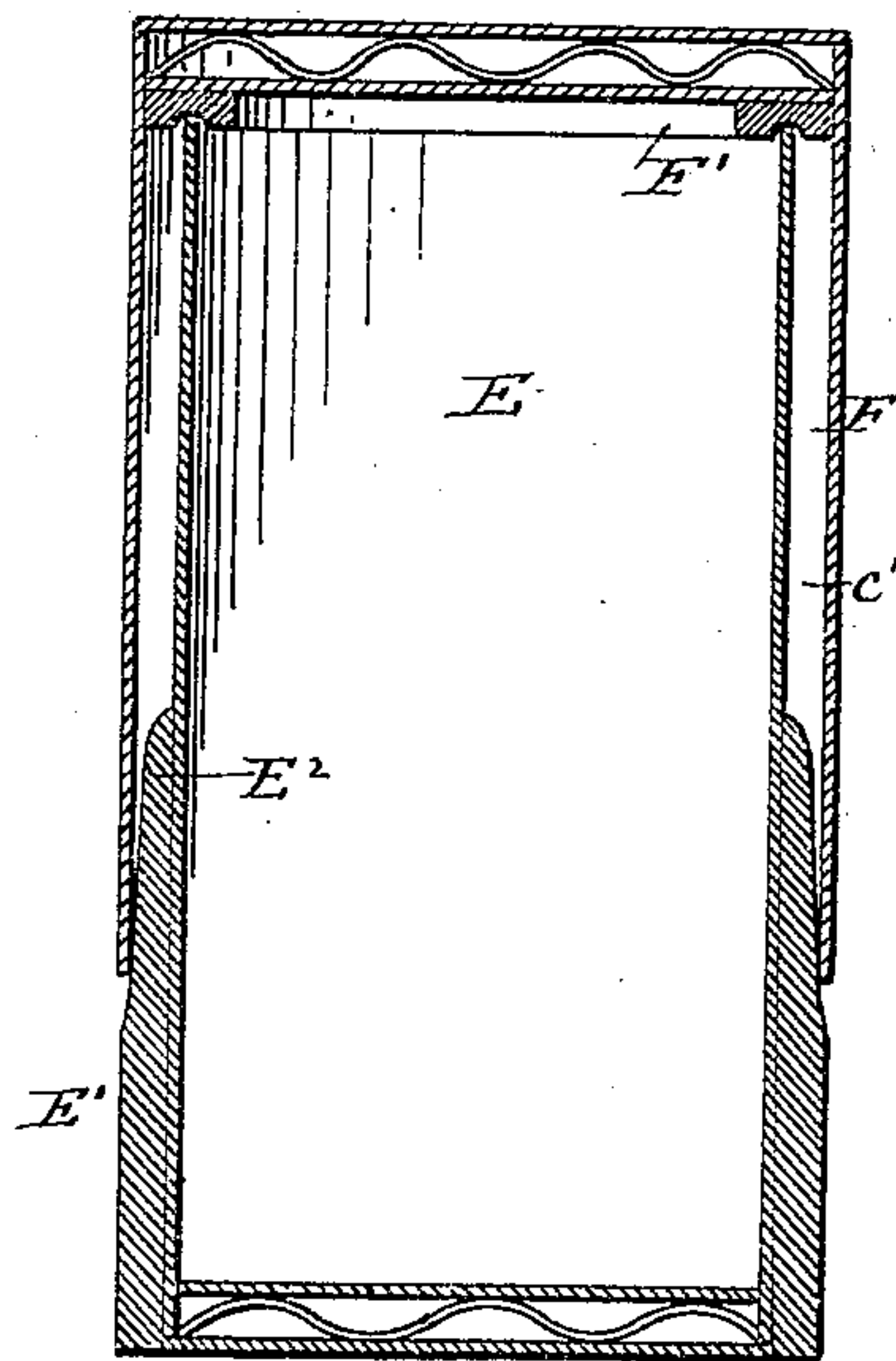
No. 252,544.

Patented Jan. 17, 1882.

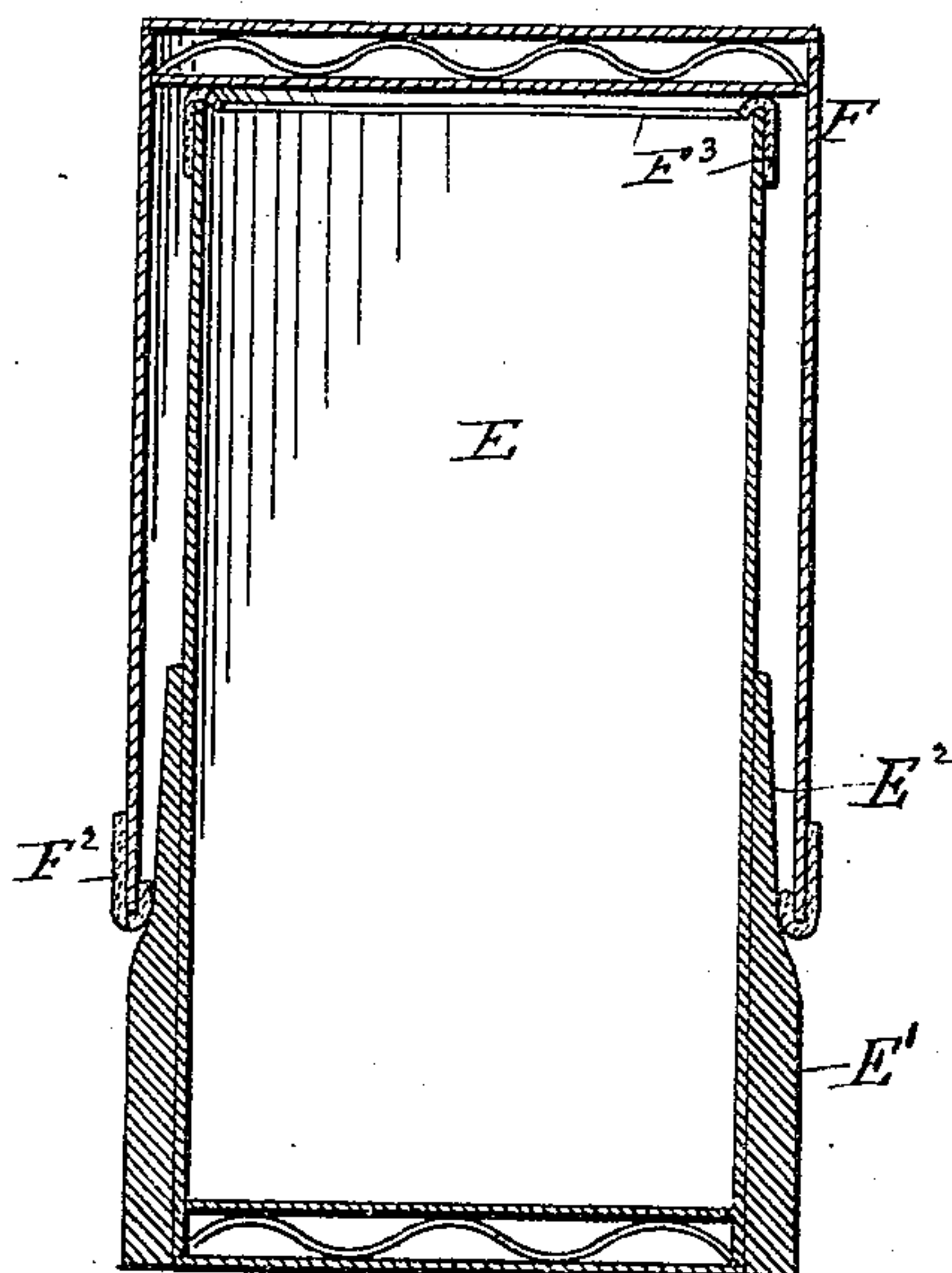
*Fig. 1.*



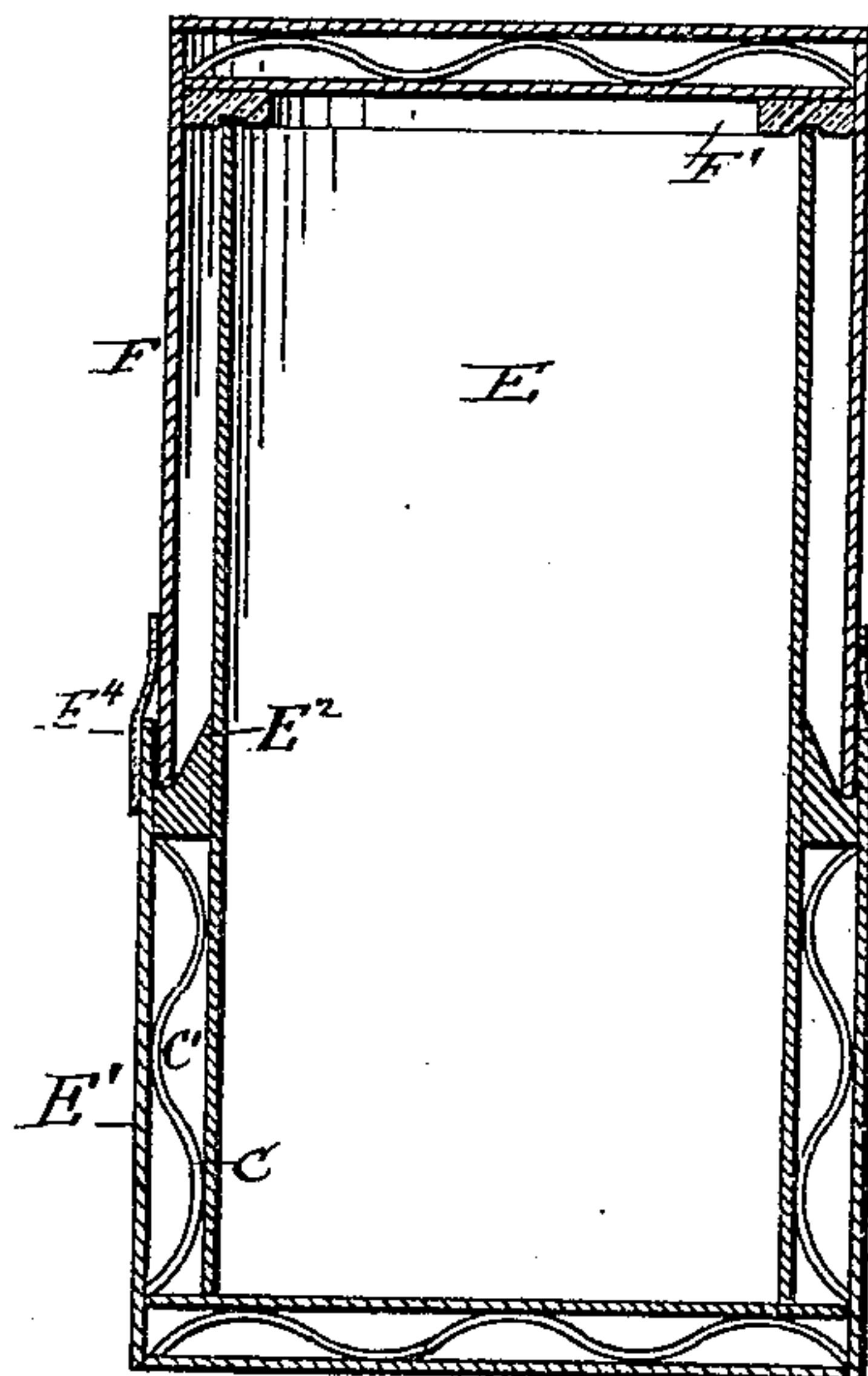
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



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# UNITED STATES PATENT OFFICE.

NELSON F. TIPTON, OF COLONY, KANSAS.

## PACKING-BOX FOR FRUIT-JARS, &c.

SPECIFICATION forming part of Letters Patent No. 252,544, dated January 17, 1882.

Application filed November 28, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, NELSON F. TIPTON, a citizen of the United States, residing at Colony, in the county of Anderson and State of Kansas, have invented certain new and useful Improvements in Packing-Boxes for Fruit-Jars, Butter, &c., of which the following is a specification.

My invention relates to improvements in double-wall or jacketed packing-boxes; and the objects of my improvements are to produce a packing-box adapted to receive glass and stone jars and other articles, protect them against breakage, and preserve the contents against the effects of heat, light, and cold by tightly uniting the cover of said boxes to both the box and to the outer protecting wall or jacket, and forming a close air-chamber between the box and its cover. I attain these objects by forming the walls and producing the joints between the jacket of the box and its cover in a peculiar manner, as will be hereinafter described in connection with the drawings, and then the invention will be pointed out in the claims.

I am aware that ice-pitchers and metallic boxes have been provided with double walls, the outer one of which is of paper with an intervening air-space, and that said paper has been supported with vertical strips resting against the inner metallic box; but my invention differs from the above in details of construction, as shown in the accompanying drawings, in which—

Figure 1 is a vertical section of the preserver packing-box forming a part of my invention. Figs. 2, 3, and 4 represent vertical sections of the shipper packing-box forming another part of my invention.

In said drawings E, Fig. 1, represents the inner box of the preserver. It is in the form of a plain cylinder with a cylindrical cover, having a flat top, A', resting upon the top edge of the vessel E. Said cover is shown as provided with a handle, A<sup>2</sup>, made of webbing or a piece of tape secured thereto to facilitate its removal. The inner vessel, E, is connected with the outer shell or jacket, E', by means of crimped or wavy strips of pasteboard C, glued to both at short intervals, so as to leave a permanent and continuous air-space, C', around the vessel E. The outer portion extends only

a portion of the length of the vessel or box E, and is closed with a cylindrical cover, F, made to fit around its top, as follows: There is passed to the outer periphery of the shell or jacket E', adjoining its upper end, a strip of paper wound around it an increased number of times in progressing from said upper end, to give to said periphery a slightly conical or sloping form, as shown at E<sup>2</sup>, to receive thereupon the lower edge of the cylindrical portion of the cover F, and, slightly expanding it, make therewith a perfectly tight fitting joint. There is also secured to the thickest portion of the sloping enlargement E<sup>2</sup> a band, B<sup>2</sup>, to form between the latter and the part E<sup>2</sup> an annular chamber, B<sup>3</sup>, for the reception of a liquid sealing-cement, if desired. An annular conical groove is also produced at B<sup>4</sup> in the upper end of the air-space C' for the reception of a liquid cement, if desired, the lower edge of the cover A' of the box E entering therein. The upper part of the cover F is made of two thicknesses of pasteboard, kept at a distance by means of crimped strips of card-board, to form an air-chamber between them. The bottom of the box E is similarly constructed, so that said box is surrounded by a closed air-chamber.

The box shown in Fig. 2 is to inclose the jar or goods to be shipped, and is of itself a sufficient protection therefor at ordinary temperatures; but if the goods are shipped at times of very high or very low temperatures it can be inclosed, for additional protection, in the preserving-box shown in Fig. 1, both being constructed in a nearly similar manner.

In Fig. 2, E represents the inner box, having the lower half of its walls surrounded by a strengthening cylinder or jacket, E', formed of paper coiled around said inner box, or otherwise. The upper portion of said cylinder E' is slightly conical or sloping at E<sup>2</sup>, to receive thereupon the lower edge of the cylindrical portion of the cover F, and, slightly expanding it, make therewith a perfectly tight fitting joint, as heretofore stated in regard to the cover F in Fig. 1. Within the top of the cover F is placed a washer, F', of rubber, cork, or of waxy substance, to rest upon the upper edge of the inner box, E, and properly seal it when the cover F is pressed upon its conical seat E<sup>2</sup>.

The box shown in Fig. 3 has walls and a



cover similar to Fig. 2; but to form a more yielding joint and seal between them the lower edge of said cover is provided with a rubber band,  $F^2$ , cemented to the outer periphery thereof in such a manner that the lower edge of said rubber band will project beyond the edge of the cover, and its resilience will cause said lower edge to be bent over the edge of the cover and toward its center, and when the cover is pressed down upon its conical or sloping seat  $E^2$  the rubber band will be tightly compressed between them. The upper edge of the box  $E$  is provided also with a similar rubber band,  $F^3$ , cemented thereto, with its upper edge projecting in the same manner to form a seal with the under side of the chambered cover  $F$ .

The box shown in Fig. 4 is closely allied to those shown in Figs. 1 and 2; but, as an additional tie or seal between the outer shell or jacket of the box and its cover, there is placed over the joint either a strip of paper pasted to each one, or a rubber band,  $F^4$ , clasping both at that point.

Each one of the above-described packing-boxes is made of pasteboard, which is inexpensive and a non conductor of heat. It contains a tight air-chamber, formed between the box and its cover, above the sloping portion of the jacket. Said box and its cover may be

varnished to protect the device against water. The diameter of the cover being approximately that of the exterior of the jacket gives to the package a nearly smooth exterior.

Having now fully described my invention, I claim—

1. The combination of a box having a strengthening-jacket provided with a sloping upper portion, with a cover whose head is of a diameter approximately that of the exterior of the jacket, and whose rim at its lower edge fits tightly the sloping portion of the jacket, the box and cover forming a chamber between them, above the slope of the jacket, substantially as and for the purpose described.

2. The combination of a box formed with a sloping jacket solidly formed thereon, and having its upper edge provided with a rubber band encircling and projecting above it, with a cover approximately of the diameter of the jacket, and having a rubber band encircling and projecting under the edge, and within the interior of its rim, the cover and the jacketed box being united at two packed joints, substantially as and for the purpose described.

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Witnesses:

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