

No. 619,369.

Patented Feb. 14, 1899.

W. B. THOMSON.
SHIPPING PACKAGE.

(Application filed Dec. 11, 1897.)

(No Model.)

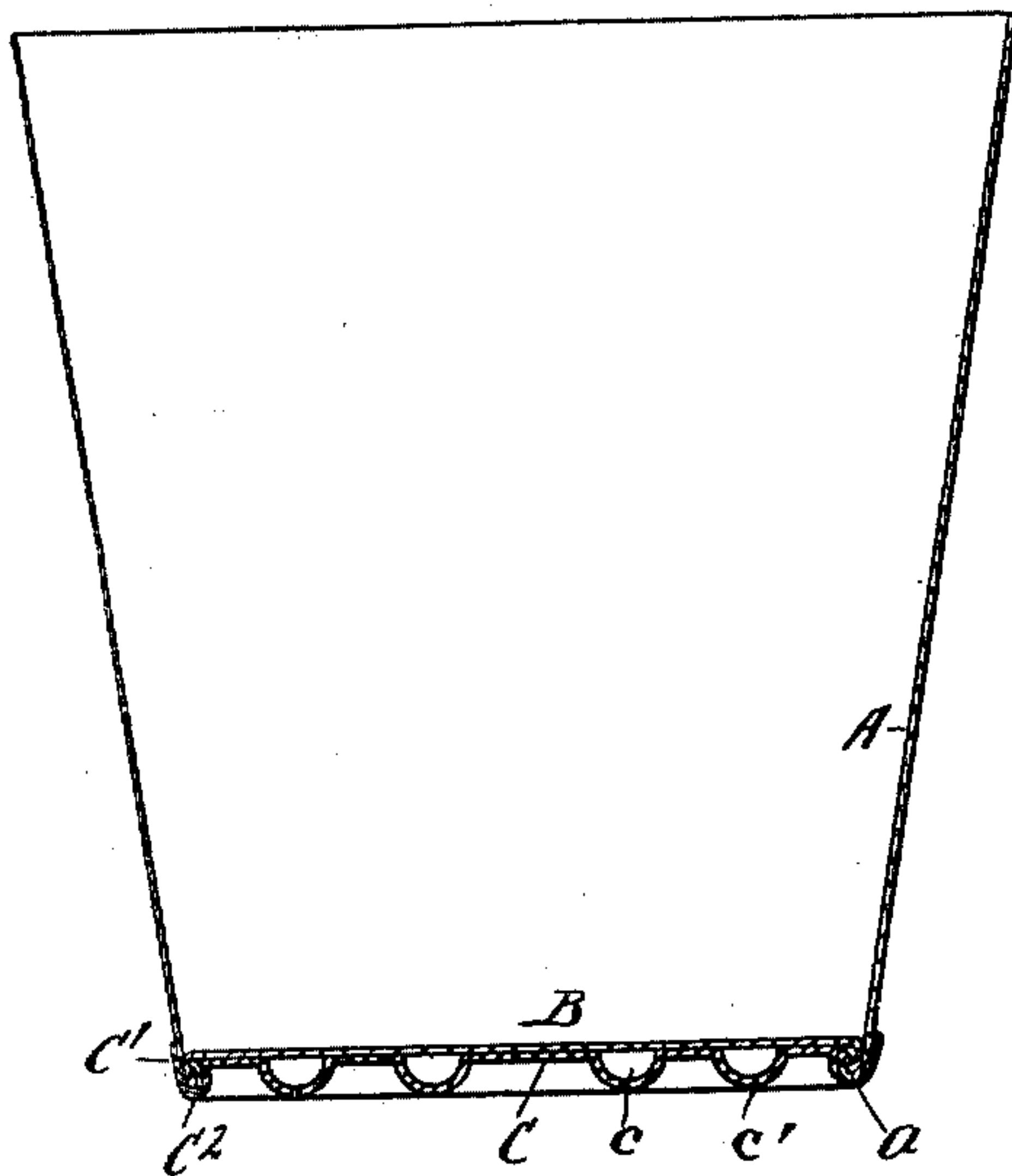


Fig. 1.

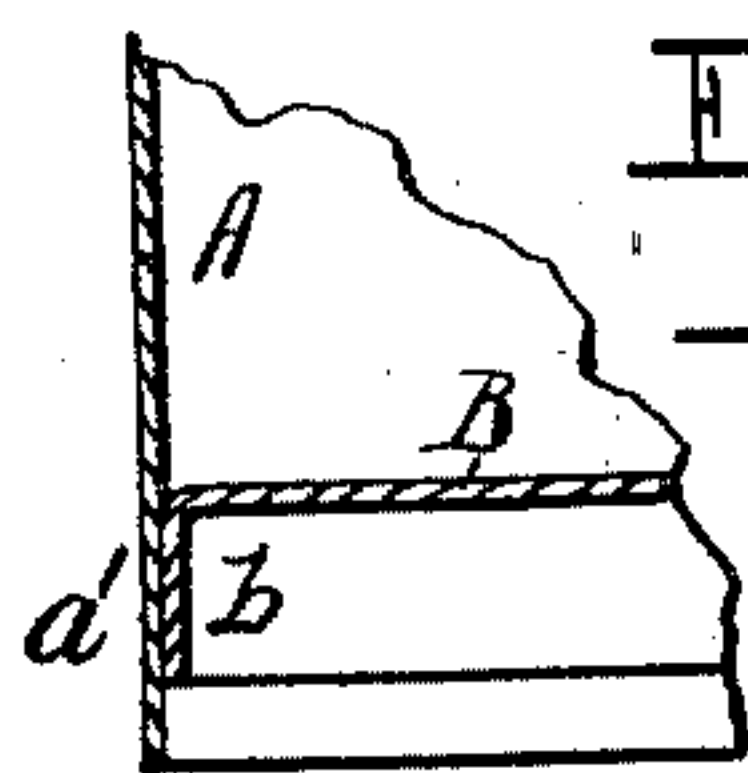
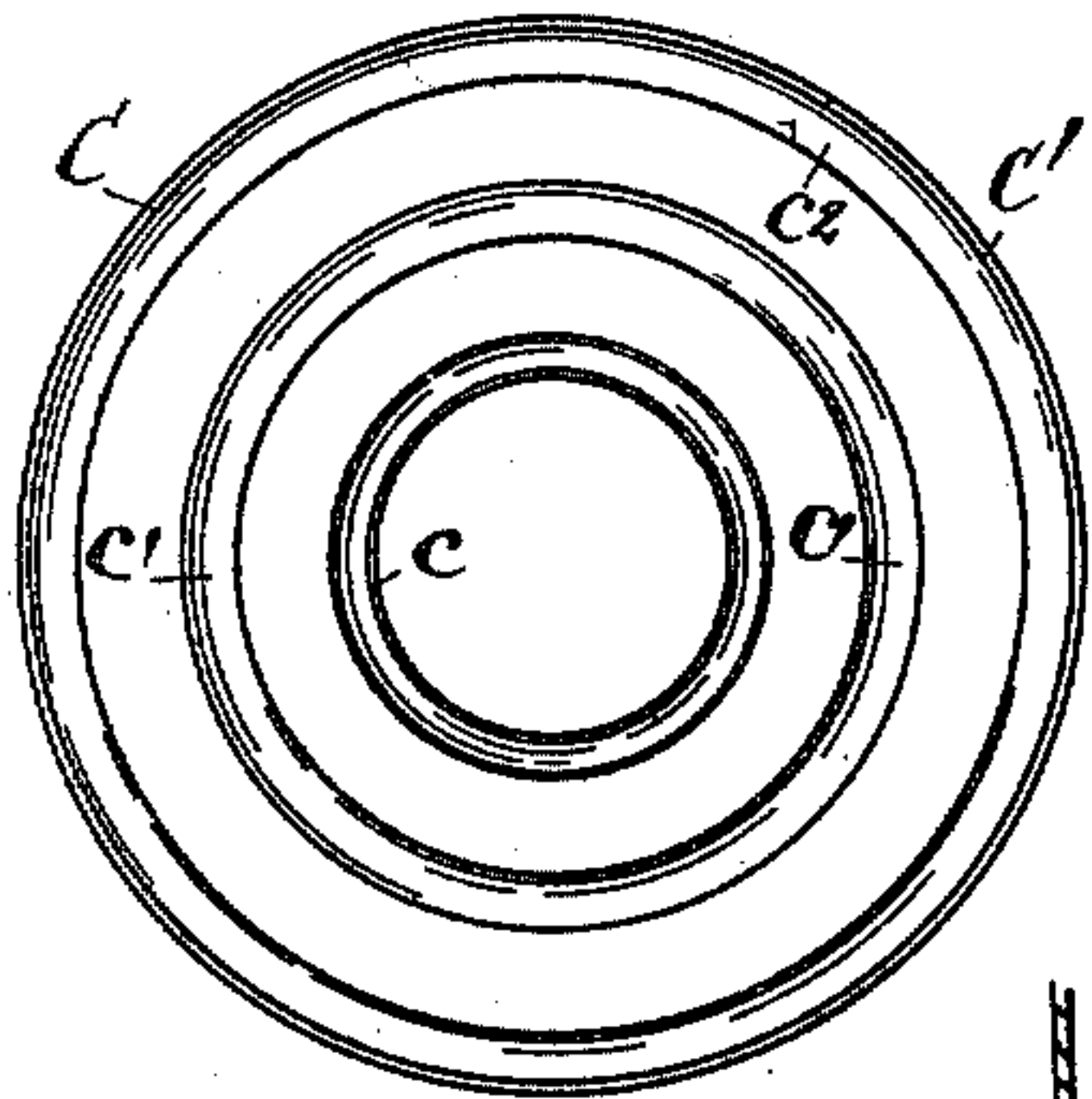


Fig. 3.

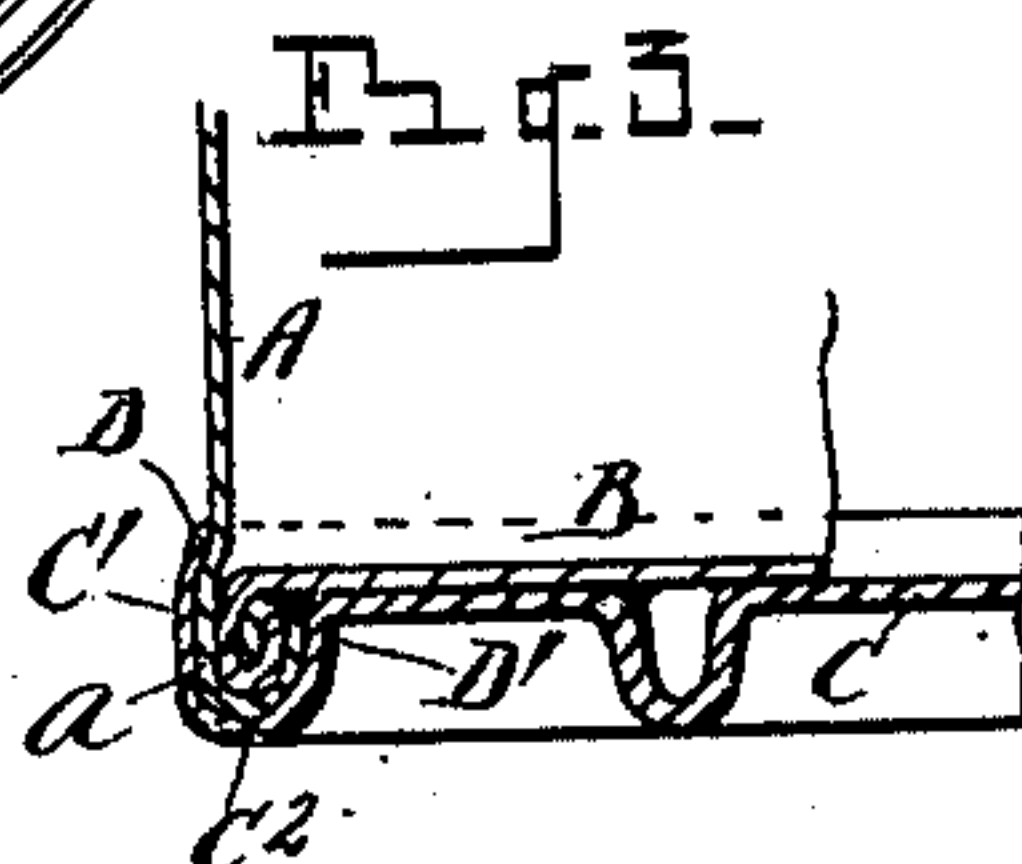


Fig. 4.

Fig. 5.

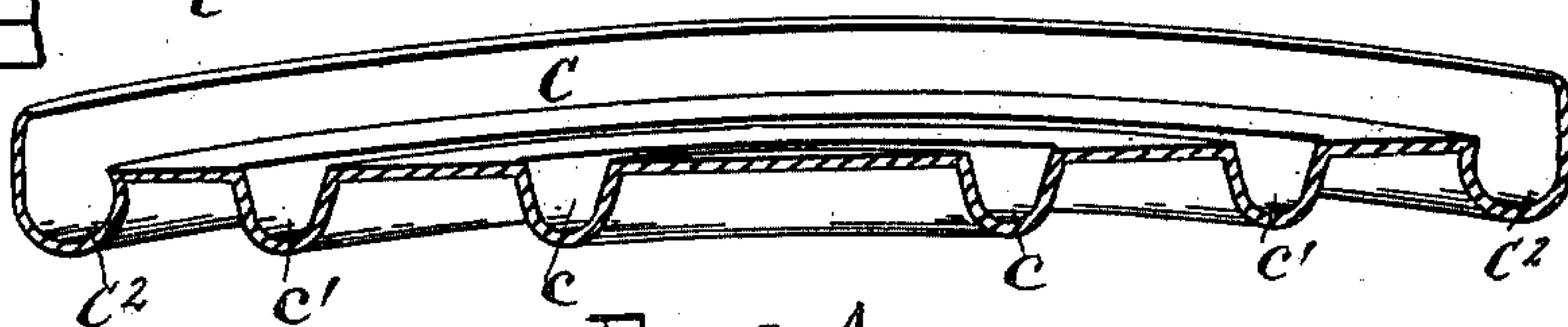


Fig. 6.

WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM B. THOMSON, OF DETROIT, MICHIGAN, ASSIGNOR TO THE GEM FIBRE PACKAGE COMPANY, OF SAME PLACE.

SHIPPING-PACKAGE.

SPECIFICATION forming part of Letters Patent No. 619,369, dated February 14, 1899.

Application filed December 11, 1897. Serial No. 661,516. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. THOMSON, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have
5 invented a certain new and useful Improvement in Shipping-Packages; and I declare the following to be a full, clear, and exact description of the invention, such as will enable
10 others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My present invention has for its object certain new and useful improvements in a shipping-package of superior construction and
15 utility, the same being more particularly designed as an improvement upon boxes or packages embodied in an application filed by me September 23, 1896, Serial No. 606,697.

20 My invention in the present instance consists of the construction, combination of devices, and appliances hereinafter described and claimed, and illustrated in the accompanying drawings, in which—

25 Figure 1 is a view in vertical section illustrating my invention as applied to a shipping-tub. Fig. 2 is a plan view of the same. Fig. 3 is a detail view in section, on an enlarged scale, to more fully illustrate features of my invention.
30 Fig. 4 is a view in cross-section illustrating the construction of my improved locking-shoe, and Fig. 5 is a partial view in detail showing the lower flanges of the body and head projecting downward into position ready
35 to be rolled to secure the end and body of the box together.

My invention designs to provide a shipping-package constructed of paper or paper-board, more particularly; but I do not limit myself
40 solely to the formation of the body of the package of any particular material; but I will describe my invention as applied to a package formed of paper-board, and in the drawings I have illustrated my invention accordingly.
45

A represents the body of the package. B is one end thereof—as the bottom, for example. Any suitable cover may be employed. The body and end or head B are preferably
50 constructed as described in my application

above referred to, the body being of any desired form or shape. As in said application, the body and head are primarily formed with downward-projecting extremities, (indicated at a' and b ,) said extremities extending downward below the end B and the extremity a' being preferably longer than the extremity b , the part b of the end, made in the nature of a downward-projecting flange, turned at right angles to the body of the head, the head being set up within the body a sufficient distance to allow the extremity a' of the body to project downward beyond the body of the head a distance equal to or greater than the length of the flange b . When the head has thus been located with the body, the two extremities a' and b are placed in a suitable machine or die and rolled over and inward together on a curve and in under the head B to securely lock the head and body together. This rolled joint is found to secure a special stiffness of the joint in packages made of paper or fibrous material.

My present invention contemplates providing, in combination with a box or package, a metal shoe, (indicated at C,) said shoe constructed with a peripheral recess or channel to fit over the rolled joint a , uniting the body A and the head B, the shoe being provided with an upwardly-projecting peripheral flange, (indicated at C' ,) the channel being indicated at C^2 . I prefer to form the shoe with one or more annular beads or corrugations, (indicated at c and c' ,) the corrugations being made deep enough so as to contact with the floor or other support for the package, the corrugations assisting thus to support the package. At the same time it will be evident that the corrugations materially strengthen the shoe and cause it to more firmly support the head B. At the same time the entire shoe, with the channeled portion C^2 and flange portion C' , forms wearing-surfaces or protect the paper body and head and the joint a from wear and breakage.

By corrugating the body of the shoe and making the corrugations of sufficient depth to assist in supporting the package the head is effectually prevented from springing and the entire package is properly supported with-

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out springing and is also protected from injury or wear by the metal surfaces of the shoe. When the shoe has been slipped into place over the joint α , my invention contemplates 5 clamping the flange C' and the inner wall of the channel C^2 about the annular joint α , the adjacent parts of the joint being pressed or clamped upon the joint the one toward the other, as indicated in Fig. 3 at D and D', 10 the clamping of the parts about the joint strengthening the joint and at the same time effectually holding the shoe in place upon the body and head of the package. The shoe, however, might be secured in place in other 15 ways without departing from my invention. When the shoe is applied, a strong and durable package is secured.

What I claim as my invention is—

20 A box of fibrous material constructed of a body, an end piece or head having their adjacent extremities rolled over and inward in under the head on a continuous curve to unite

said body and head, and in combination therewith a metal shoe having an integral center contacting with the body of the head to support the head, and formed with a peripheral 25 channel C^2 to receive and cover said rolled joint, and with an outer upwardly-projecting peripheral flange C' , said flange and the inner wall of said channel clamped the one toward the other securely over said rolled joint 30 to keep the joint from unrolling and to protect the adjacent parts, the center of the shoe contacting with the center of the head, the body of the shoe being corrugated to form 35 additional supports for the head, substantially as set forth.

In testimony whereof I sign this specification in the presence of two witnesses.

WILLIAM B. THOMSON.

Witnesses:

N. S. WRIGHT,
MARY HICKEY.