

No. 657,688.

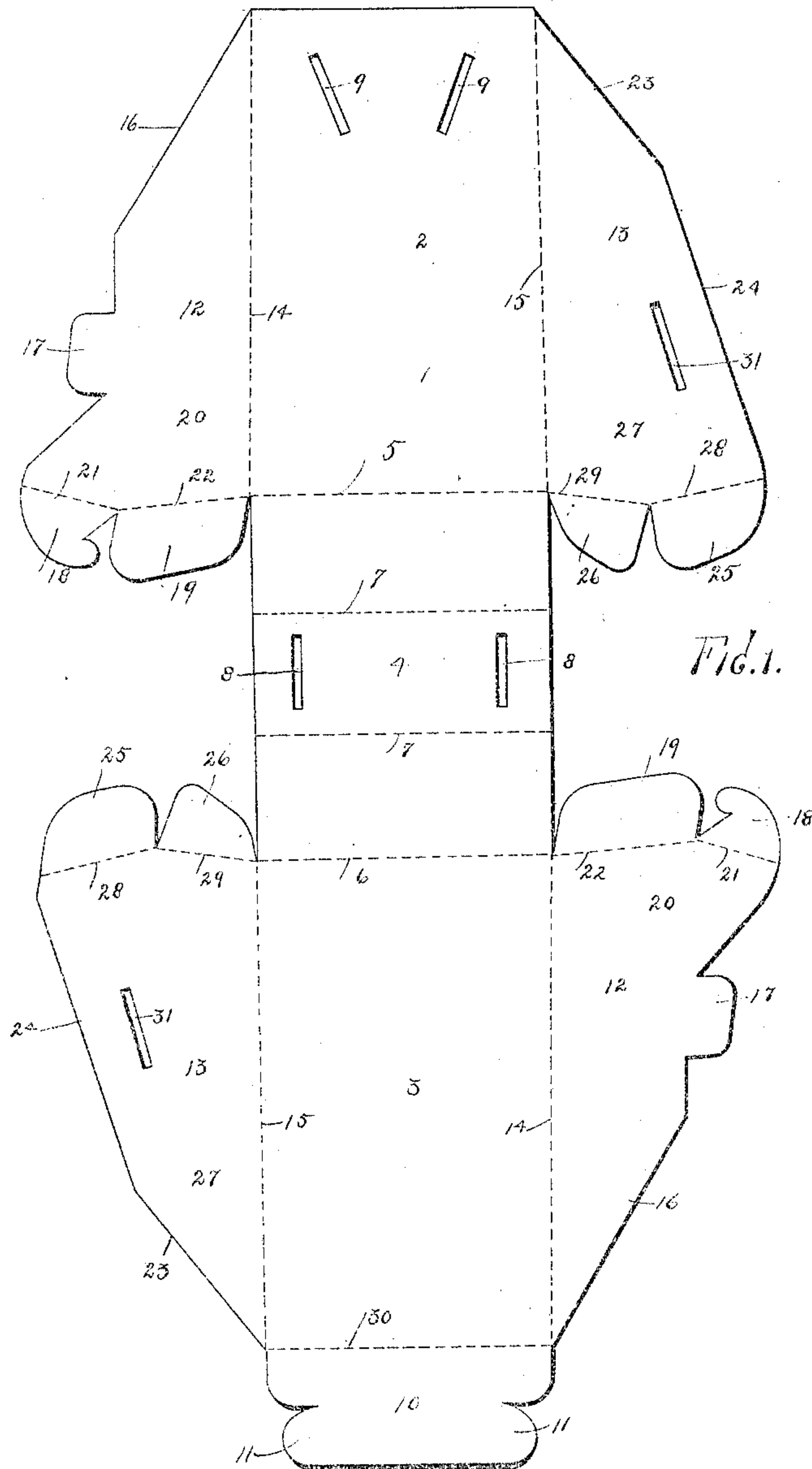
Patented Sept. 11, 1900.

A. W. BEERS.
FOLDING BOX OR PACKAGE.

(Application filed Dec. 23, 1899.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES
Carl B. Larson.
J. A. Stewart.

INVENTOR
Alexander W. Beers
BY
Edgar T. Smith
ATTORNEYS

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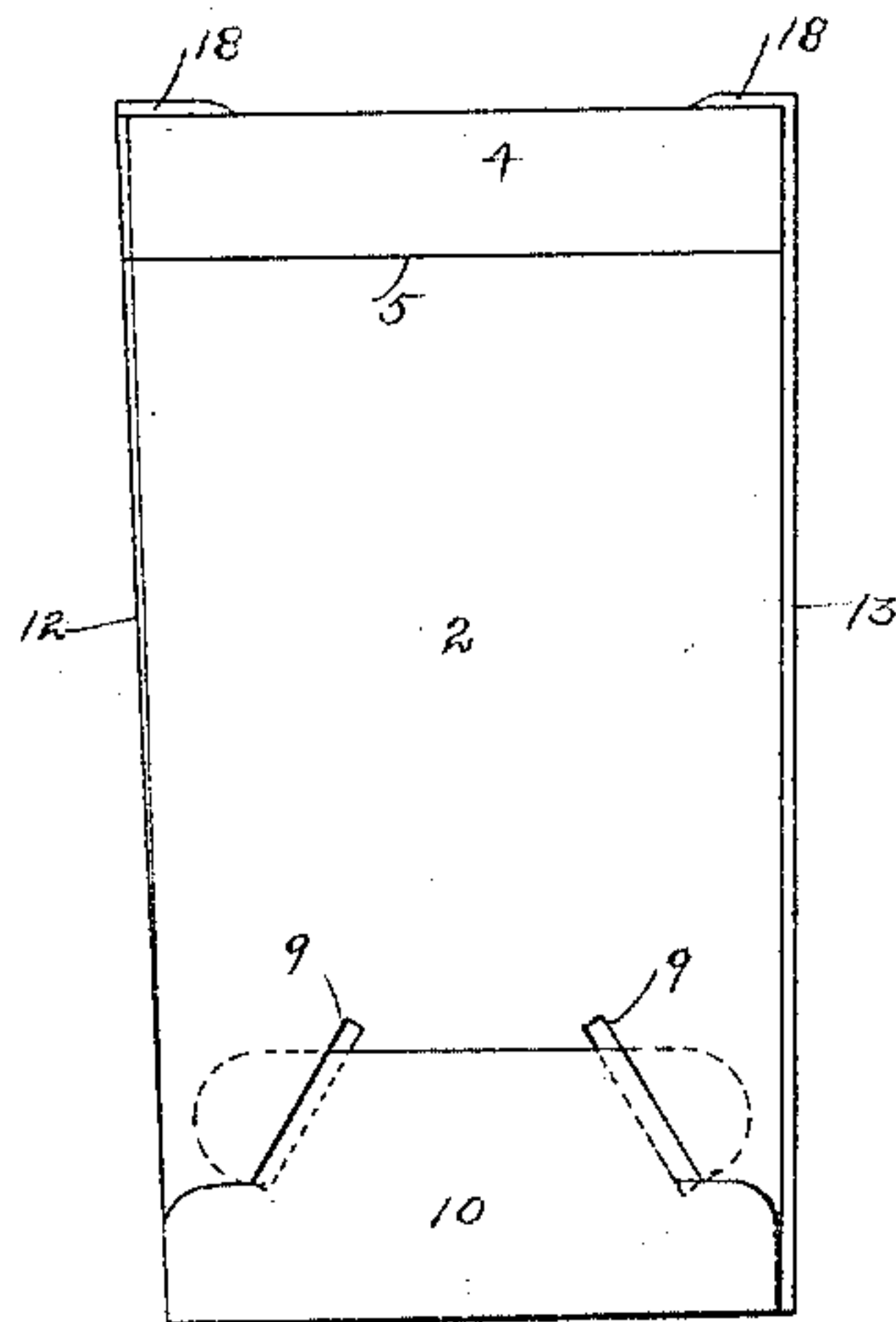


Fig. 2.

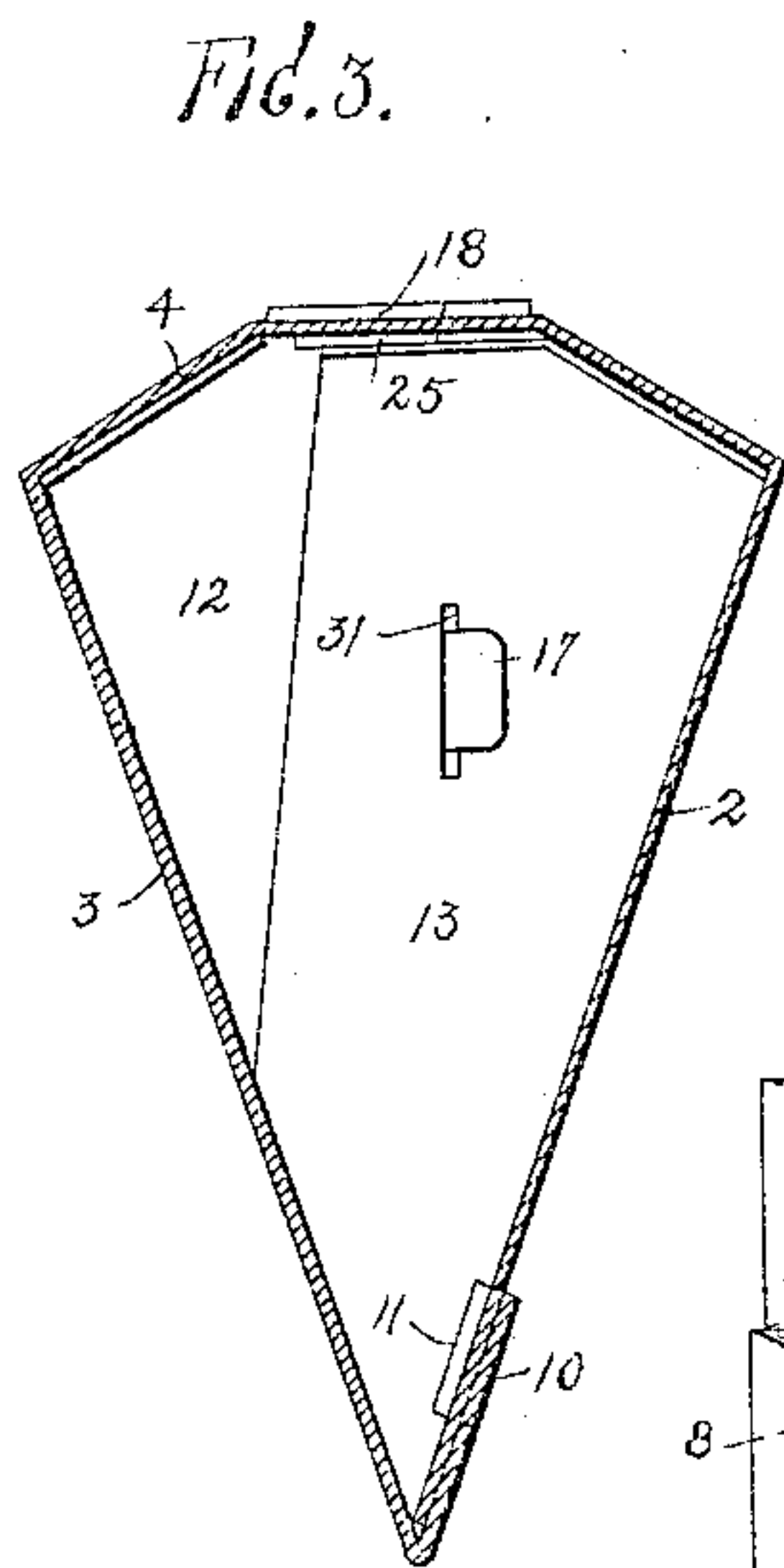


Fig. 3.

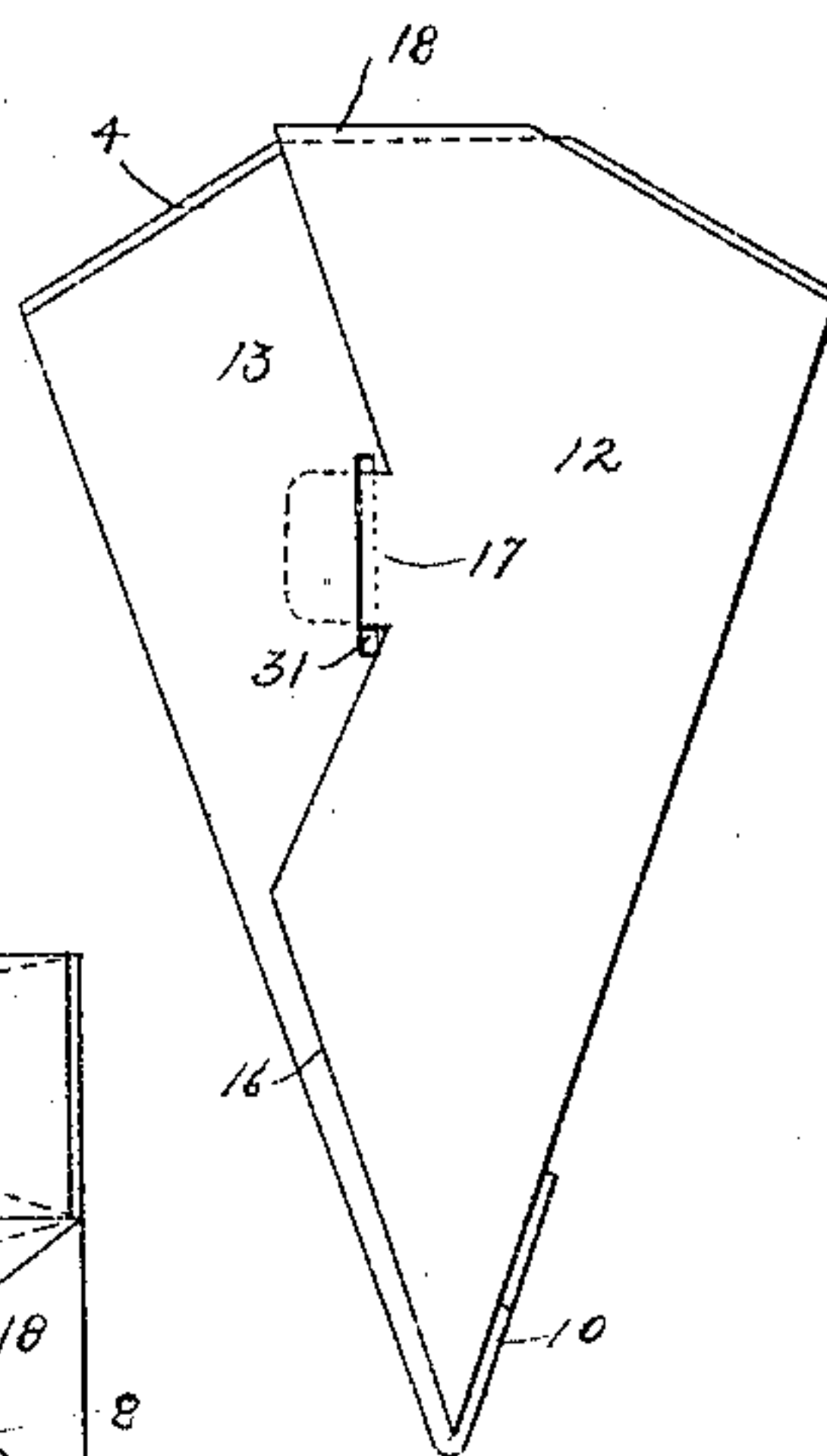


Fig. 4.

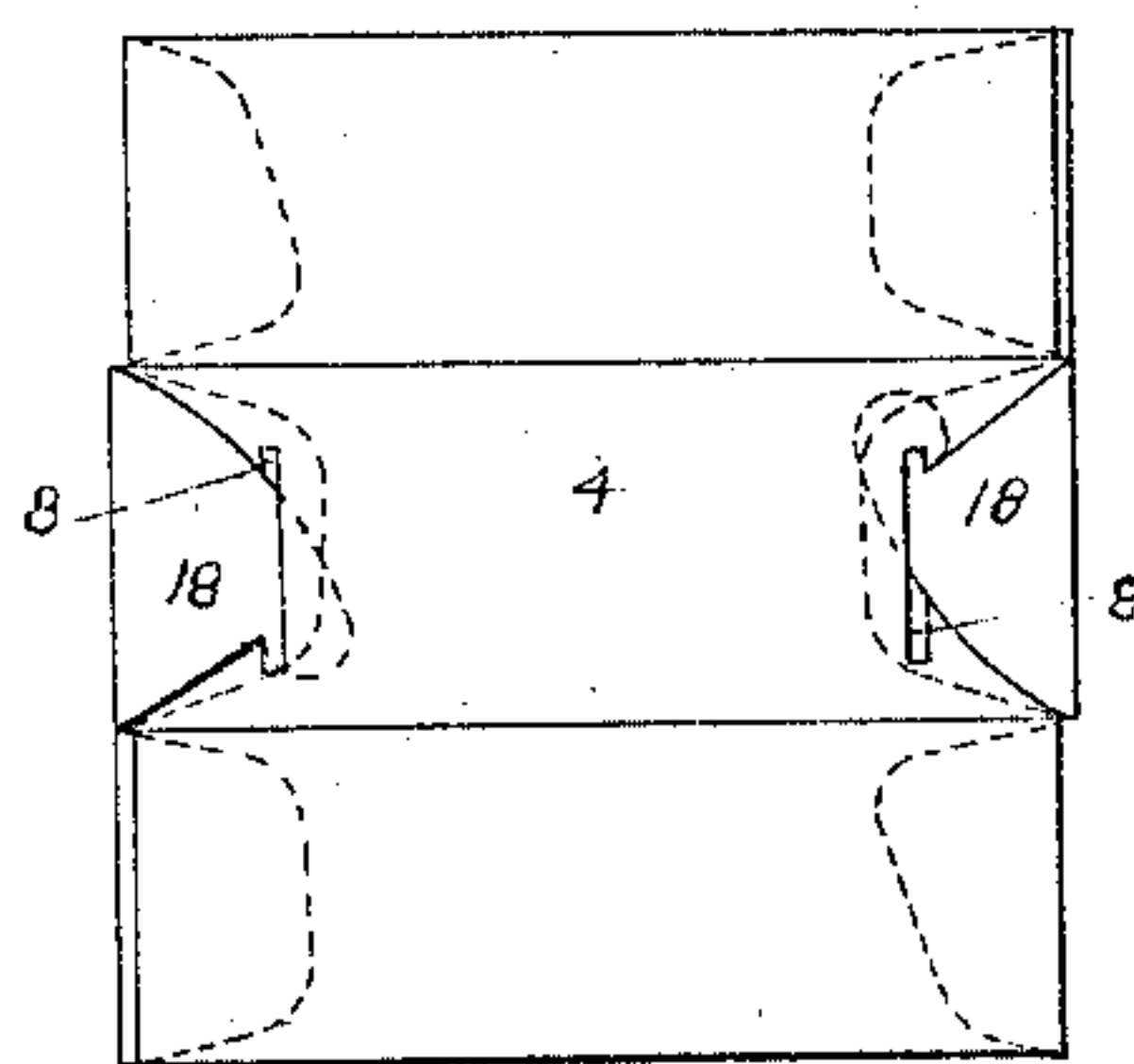


Fig. 5.

WITNESSES
Carl B. Larson
F. A. Stewart

INVENTOR
Alexander W. Beers
BY
Edgar S. Lister
ATTORNEYS

UNITED STATES PATENT OFFICE.

ALEXANDER WALKER BEERS, OF BETHLEHEM, PENNSYLVANIA.

FOLDING BOX OR PACKAGE.

SPECIFICATION forming part of Letters Patent No. 657,688, dated September 11, 1900.

Application filed December 23, 1899. Serial No. 741,353. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER WALKER BEERS, a citizen of the United States, residing at Bethlehem, in the county of Northampton and State of Pennsylvania, have invented certain new and useful Improvements in Folding Boxes or Packages, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to that class of folding boxes or packages which are constructed from a single sheet or blank of paper or other suitable material and are bent up into operative form.

The object of my invention is to provide a simple and improved box or package of this character in which economy in material will be secured, which can be conveniently folded into operative condition, and which will be secure and effective in use.

In the accompanying drawings, forming part of this specification, in which like numerals of reference denote corresponding parts in the several views, Figure 1 is a plan view of the sheet or blank from which the box or package is formed. Fig. 2 is a front elevation. Fig. 3 is a transverse sectional view. Fig. 4 is a side view, and Fig. 5 is a top view.

Referring to the drawings, 1 designates the central or body portion, which comprises at one end the front member 2 and at the opposite end the back or rear member 3, immediately of which members 2 and 3 is embodied the top portion 4. Said top portion is divided from the outer members 2 and 3 by transverse scoring or crease lines, as at 5 and 6, respectively, and said top portion 4 is preferably further provided with transverse parallel scoring or crease lines 7 7, whereby it is adapted to assume the angular contour which is illustrated in Figs. 3 and 4 of the drawings. Said top portion is provided in its middle or between the crease-lines 7 7 with parallel slots or openings 8 8, arranged on a longitudinal plane with respect to the body 1. The front portion or member 2 is provided near its outer end with divergently-arranged slots or openings 9 9, and the back portion or member 3 is provided at its outer end with a wing or extension 10, having side tongues, as at 11 11.

From opposite sides of the front member or portion 2 project side wings 12 and 13, respectively, said side wings being divided from the portion 2 by scoring or crease lines, as at 14 and 15, respectively, arranged on a longitudinal plane. The wing 12 has a beveled or inclined outer edge 16 leading to the outer end or edge of the portion 2, as clearly shown in Fig. 1, and at a point beyond said edge it is provided with a laterally-projecting tongue 17, beyond which the edge inclines outwardly and terminates in a projecting tongue 18, projecting at the rear edge of said wing 12. Between the tongue 18 and the body portion 1 is provided another lip or tongue, as at 19. Said tongues 18 and 19 are respectively divided from the main portion 20 of the side wing 12 by scoring or crease lines, as at 21 and 22. The side wing 13, which is opposite to the side wing 12, is provided with a similar beveled or inclined edge, as at 23, from which its outer edge is inclined or beveled outwardly, as at 24, and within said beveled edge 24 is provided a slot or opening 31, parallel therewith. The rear edge of said wing 13 is provided with two projecting lips or tongues, as at 25 and 26, which are respectively divided from the main portion 27 of said side wing 13 by scoring or crease lines, as at 28 and 29. The back member or portion 3 carries corresponding side wings 12 and 13, respectively, which are the same relative construction as the side wings of the front portion 2. The relative arrangement of said set of side wings is, however, such that the side wing 12 and the side wing 13, respectively, project from the members 2 and 3 at the same side of the body portion 1, while a side wing 13 and a side wing 12, respectively, project from the members 2 and 3 at the opposite side of the body portion 1. An alternate arrangement of said side wings is thus produced, whereby the pair of side wings 13 and 12 upon the respective members 2 and 3 will conjointly form one side of the box or package. The flap 10 is divided from the back portion 3 by a transverse scoring or crease line, as at 30.

The operation and advantages of my invention will be readily understood.

The complete device can be conveniently and economically cut from a single sheet or blank of paper or other suitable material in

the form just described and as illustrated in Fig. 1. To fold the box into operative position, it is simply necessary first to bend the front portion 2 over until its outer edge intersects the scoring or crease line 30, which divides the flap 10 from the back portion 3. (See Figs. 3 and 4.) An approximately V-shaped body will thus be formed, the top of which will be inclosed by the top portion 4, which latter, by reason of the scoring or crease line 7, will assume the angular position illustrated in Figs. 3 and 4. To lock the body portion in the position just stated, it is now only necessary to bend the outer flap 10 at its crease-line 30 up in front of the lower portion of the front portion 2, when its tongues 11 11 may be engaged in the slots 9 9, thus forming a secure bottom-lock. The sides of the body portion are closed by the side wings or flaps. In effecting this closure the side wing 13 is first turned inwardly at the scoring or crease line 15, when its projections 25 and 26 will come beneath the top 4 and serve to effectually protect the open joint at that point. The side wing 12 is now turned or folded at its scoring or crease line 14, so that it projects over the side wing 13, its projection 19 coming beneath the top portion 4. To lock the wings 12 and 13 together, it is only necessary to engage the tongue 17 with the slot 31. The side is thus formed conjointly by the interlocked wings 12 and 13, and to lock said side in connection with the body of the box it is only necessary to engage the tongue 18 of the side wing 12 in the slot 8 of the top 4, said tongue thus projecting over the top 4, as shown in Fig. 5. The opposite side is closed in an identical manner by means of the pair of side wings 12 and 13 at that side of the body portion. From the foregoing it will be understood that all the parts or members of the box or package are securely interlocked and that

at the same time it can be conveniently opened for use when desired.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

A folding box or package of the class described, formed of a single sheet or blank with crease-lines or scoring for folding, and consisting of the front 2, the rear or back 3, the top portion 4, and the end wing or flap 10, the foregoing parts constituting the main or body portion, the side flaps 12 arranged respectively at opposite sides of the respective front portions 2 and rear portions 3 and extending laterally therefrom, said side flaps 12 being provided at their inner edges adjacent to the top portion 4 with projecting flaps adapted to fold under said top portion, and the side flaps 13 respectively arranged at opposite sides of the front portion 2 and back portion 3 and extending laterally therefrom at the side opposite from said flaps 12, said flaps 13 being provided at their inner edges adjacent to the top 4 with projecting flaps adapted to fold under said top, said flaps 12 and 13 being coincident with the full area of the side edges of the respective front portion 2 and rear portion 3 so that they conjointly close the full side of the box or package, the end flap 10 being adapted to engage with the front 2, and the inner edge portion of the flaps 12 adjacent to the top 4 being adapted to engage with said top, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 20th day of December, 1899.

ALEXANDER WALKER BEERS.

Witnesses:

F. A. STEWART,
V. M. VOSLER.