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No. 680,186.

J. R. VAN WORMER.
NESTABLE PAPER BOX.
(Application filed Mar. 1, 1900.)

Patented Aug. 6, 1901.

(No Model.)

Fig. 1.

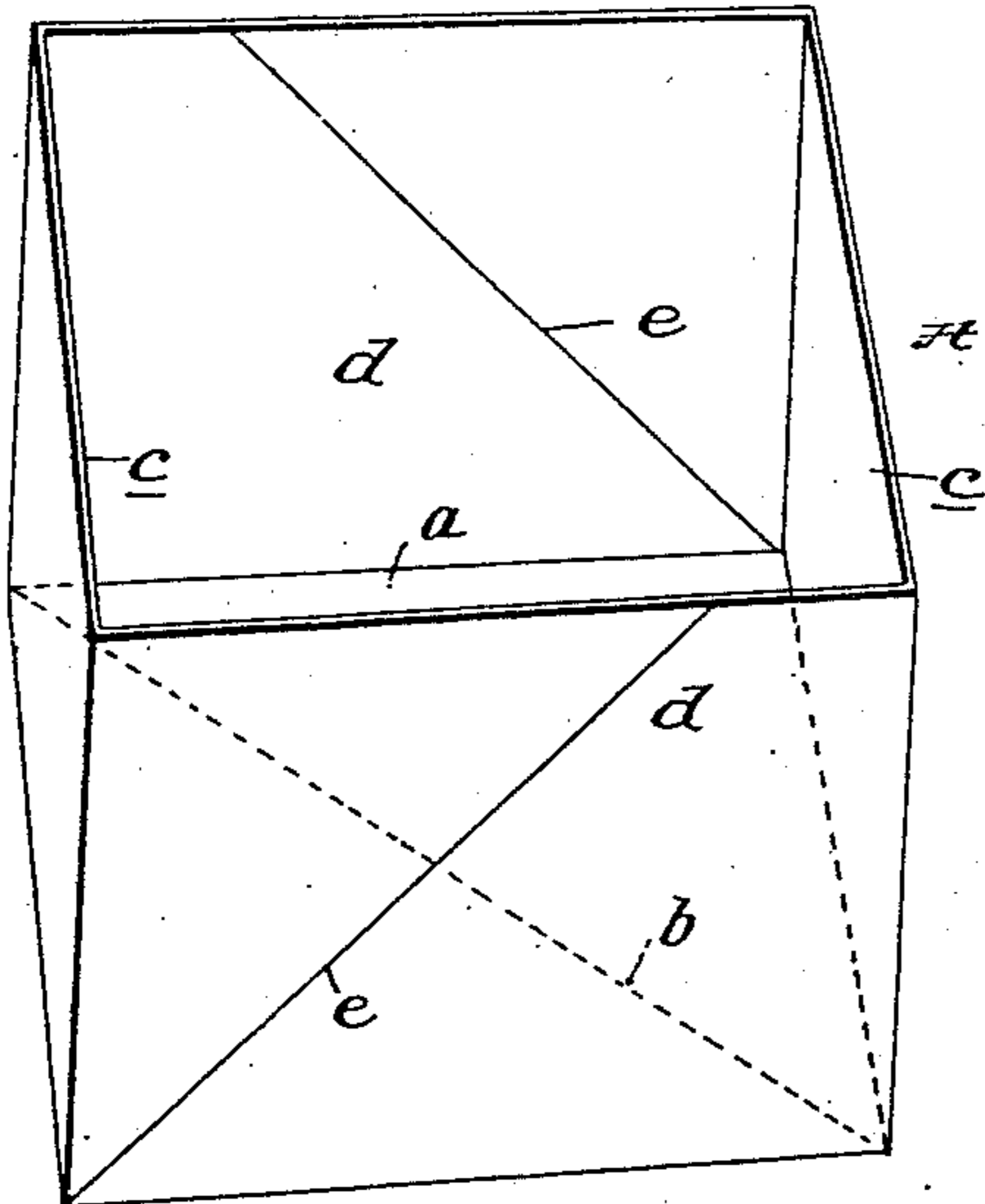


Fig. 2.

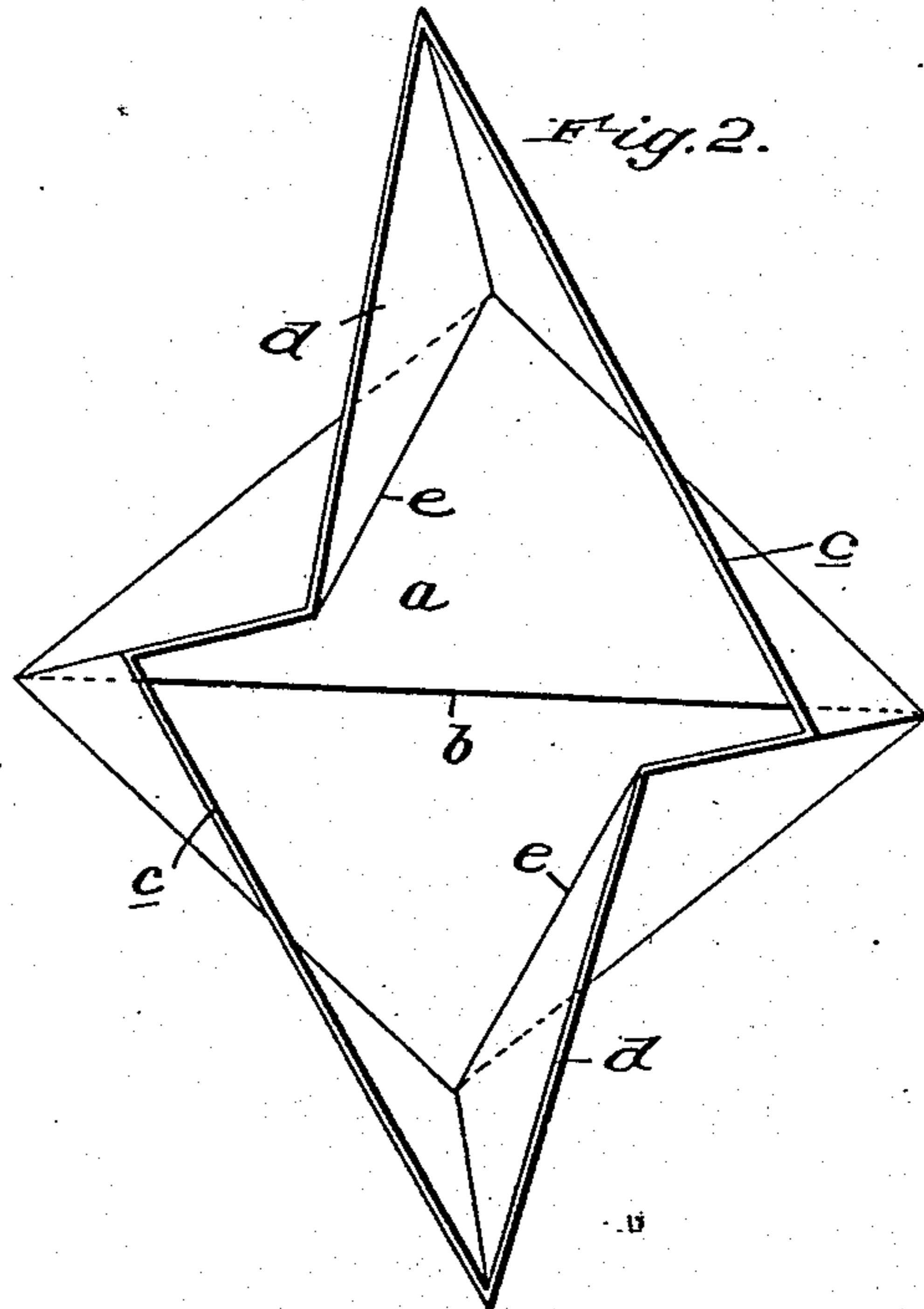


Fig. 3.

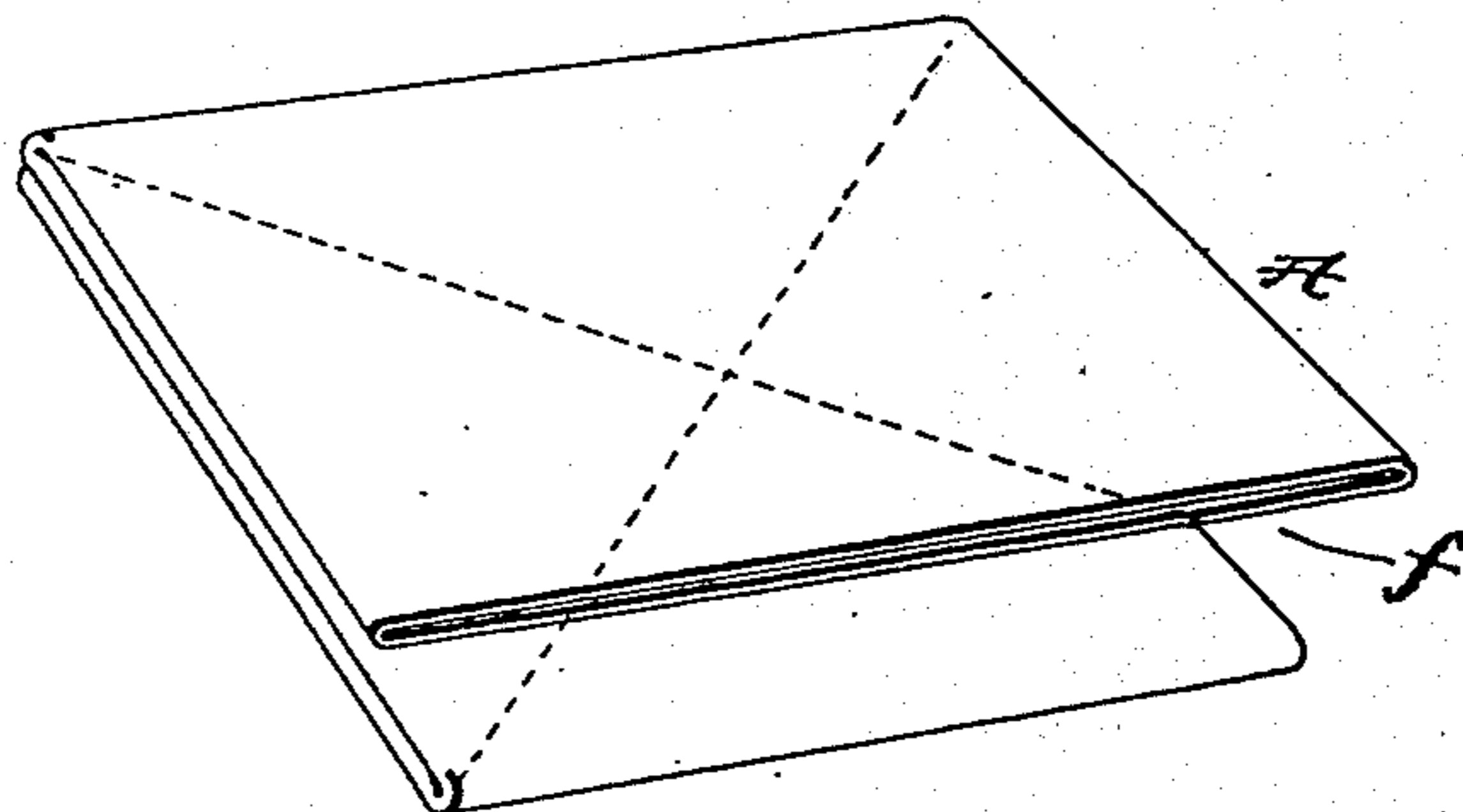
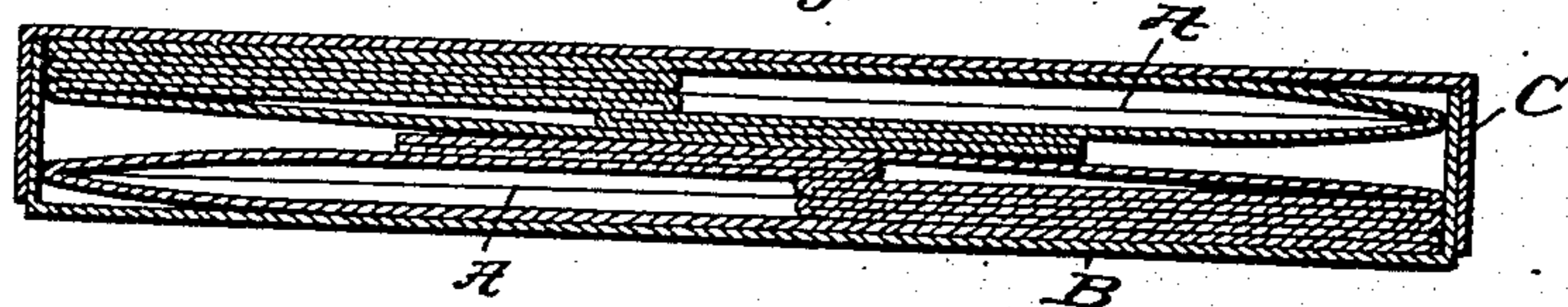


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN R. VAN WORMER, OF ATLANTA, GEORGIA, ASSIGNOR OF ONE-HALF
TO J. FRANK BECK, OF SAME PLACE.

NESTABLE PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 680,186, dated August 6, 1901.

Application filed March 1, 1900. Serial No. 6,890. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. VAN WORMER, a citizen of the United States of America, and a resident of Atlanta, in the county of Fulton and State of Georgia, have made a certain new and useful Improvement in Foldable Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form part of this specification.

My invention relates to improvements in foldable boxes; and it consists in the peculiar foldable box hereinafter described and claimed, which is the same in rectangular outline when it is folded or collapsed as when it is unfolded and set up ready for use, this in order to permit of it being snugly packed in its lid when not in use, so as to take up but a minimum amount of space.

The invention also consists in the combination of two of the folded boxes with their lids, the folded boxes being snugly packed in one of the lids and the other lid being placed over that containing the boxes, so as to effectually exclude dust from the boxes, which is an important advantage, especially when the boxes are to be used to hold fine hats and other articles of millinery.

With the foregoing in mind the invention will be fully understood from the following description and claim when taken in conjunction with the accompanying drawings, in which—

Figure 1 is a perspective view of one of my improved boxes as it appears when unfolded or set up ready for use. Fig. 2 is a plan view illustrative of the manner of folding the box. Fig. 3 is a perspective view of the box as it appears when folded or collapsed, and Fig. 4 is a sectional view illustrating two of the boxes as they appear when packed in the case formed by their lids.

Referring by letter to the said drawings, and more particularly to Figs. 1 to 3 thereof, A is my improved box. This box in the preferred embodiment of the invention is made of pasteboard and comprises a bottom wall *a*,

having a diagonal bend or hinge *b*, whereby it is adapted to fold upwardly after the manner shown in Fig. 2, side walls *c c*, connected in a hinged manner to opposite edges of bottom wall, so as to enable them to fold inwardly toward and assume positions parallel to the halves of the bottom wall when the box is folded, and side walls *d d*, the edges of which are connected in a hinged manner to opposite edges of the bottom wall while their vertical edges are connected in a hinged manner to the adjacent vertical edges of the side walls *c*. The said side walls differ from the side walls *c* in that they are provided with inclined bends or hinges *e e*, whereby they are adapted to fold upon themselves incident to the folding of the bottom wall. As will be readily observed by reference to Fig. 1, the inclined bend or hinge *e* of one of the side walls *d* extends from one lower corner of the box to the upper edge of said side wall, while the bend or hinge *e* of the other side wall *d* extends from the opposite lower corner of the box to the upper edge of the wall; also, that the upper ends of the bends *e* are located at a distance from the adjacent corners of the box about equal to one-fourth the length of the upper edges of the walls *a*. This peculiar disposition of the bends *e* is advantageous, because the box when folded or collapsed, as shown in Fig. 3, is the same in rectangular outline as when it is unfolded and set up ready for use, as shown in Fig. 1, and also because when the box is folded a recess *f* is afforded in one corner, which enables the operator to readily grasp the box and facilitates the operation of opening the same into the position shown in Fig. 1 and also facilitates removal of the folded box from its lid.

It follows from the construction described in the foregoing that the improved box has four horizontal hinges, four vertical hinges, a diagonal hinge in its bottom wall, and inclined hinges in two opposite side walls; also, that when the box is folded the halves of the bottom wall are adapted to meet flatwise, and the portions of the side walls *d* separated by the hinges *e* are adapted to fold inwardly upon themselves and be received between the halves of the bottom wall and the side walls *c*, which when the box is folded, as shown in

Fig. 3, rest parallel to the said halves of the bottom. This being so, the box when folded is quite flat and is not liable to be casually opened.

5 In Fig. 4 of the drawings two of my improved boxes A are shown as superposed in the lid B of one of the boxes, and the lid C of the other box, which is slightly larger than the lid B, is shown as arranged over the said lid B. From this it follows that the two lids form a case which effectually prevents dust and the like from reaching the boxes, which is particularly advantageous when the boxes are to be used to hold delicate articles; also, 15 that the arrangement of the two boxes and their complementary lids is a very compact one, and consequently the whole combination of the two boxes and two lids takes up but a minimum amount of space.

When it is desired to use the boxes shown in Fig. 4 and their complementary lids, the user has but to remove the lid C from lid B, take the boxes out of lid B and unfold them and then place the lids on the unfolded

When the boxes are unfolded or set up ready to use, they are not liable to casually fold or

collapse, and when their lids are in position they are effectually prevented from doing so.

It will be appreciated from the foregoing 30 that while my improved box is adapted when not in use to be compactly folded, so as to take up but a minimum amount of space, it is as serviceable when unfolded or set up as the ordinary box having side walls rigidly connected together and to a bottom wall. 35

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

The superposed folded boxes described, in combination with the lid of one box in which 40 the said superposed boxes are contained, and the lid of the other box arranged over the first-named lid, whereby two complete closed boxes substantially identical in size, shape and 45 construction may be arranged to be shipped in the form of one single box substantially as and for the purpose set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

JOHN R. VAN WORMER.

Witnesses:

A. P. WOOD,
S. M. WOOD.