

No. 704,380.

Patented July 8, 1902.

C. H. RUSSELL.
COLLAPSIBLE CARTON.
(Application filed Mar. 27, 1902.)

(No Model.)

Fig. 1.

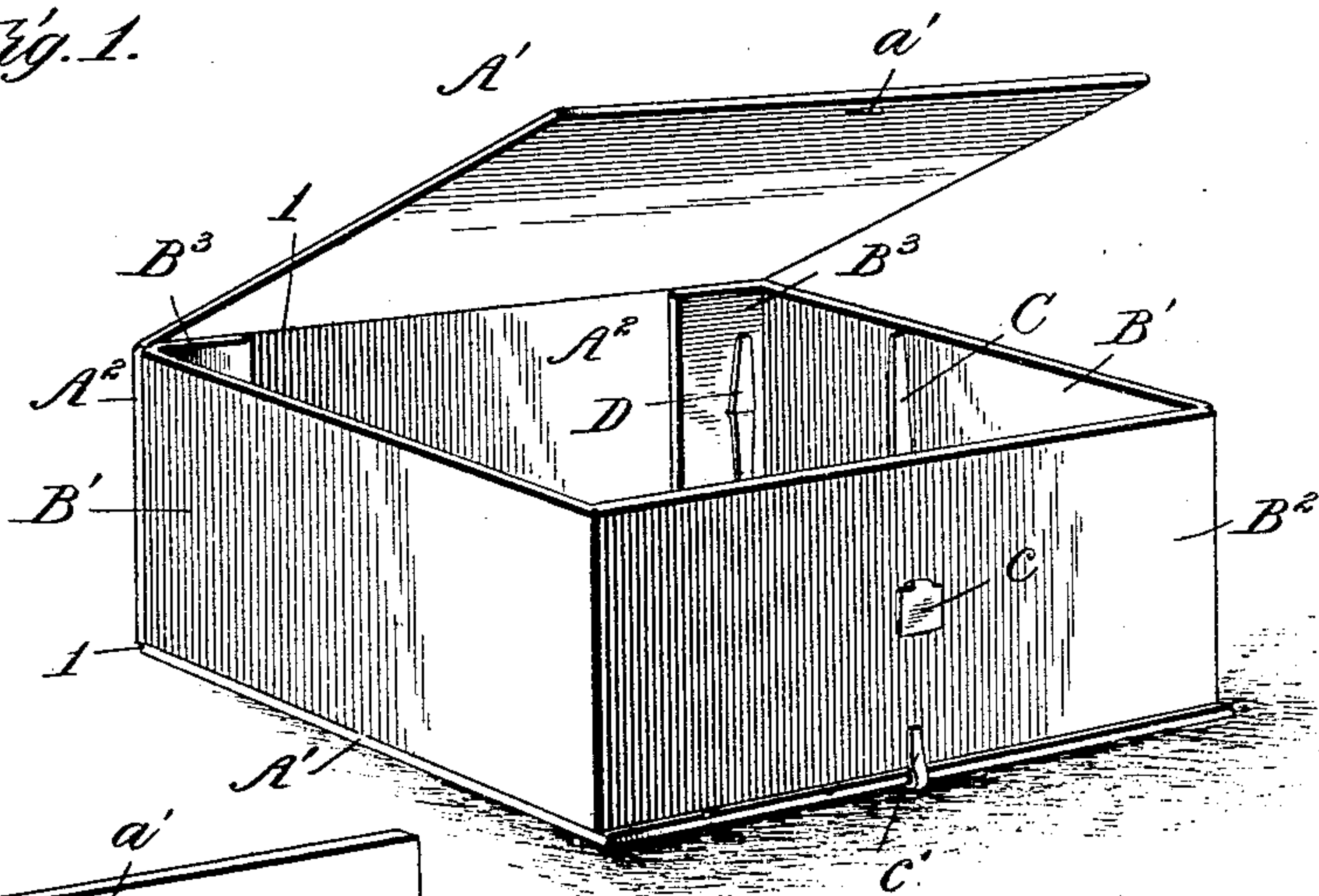


Fig. 2.

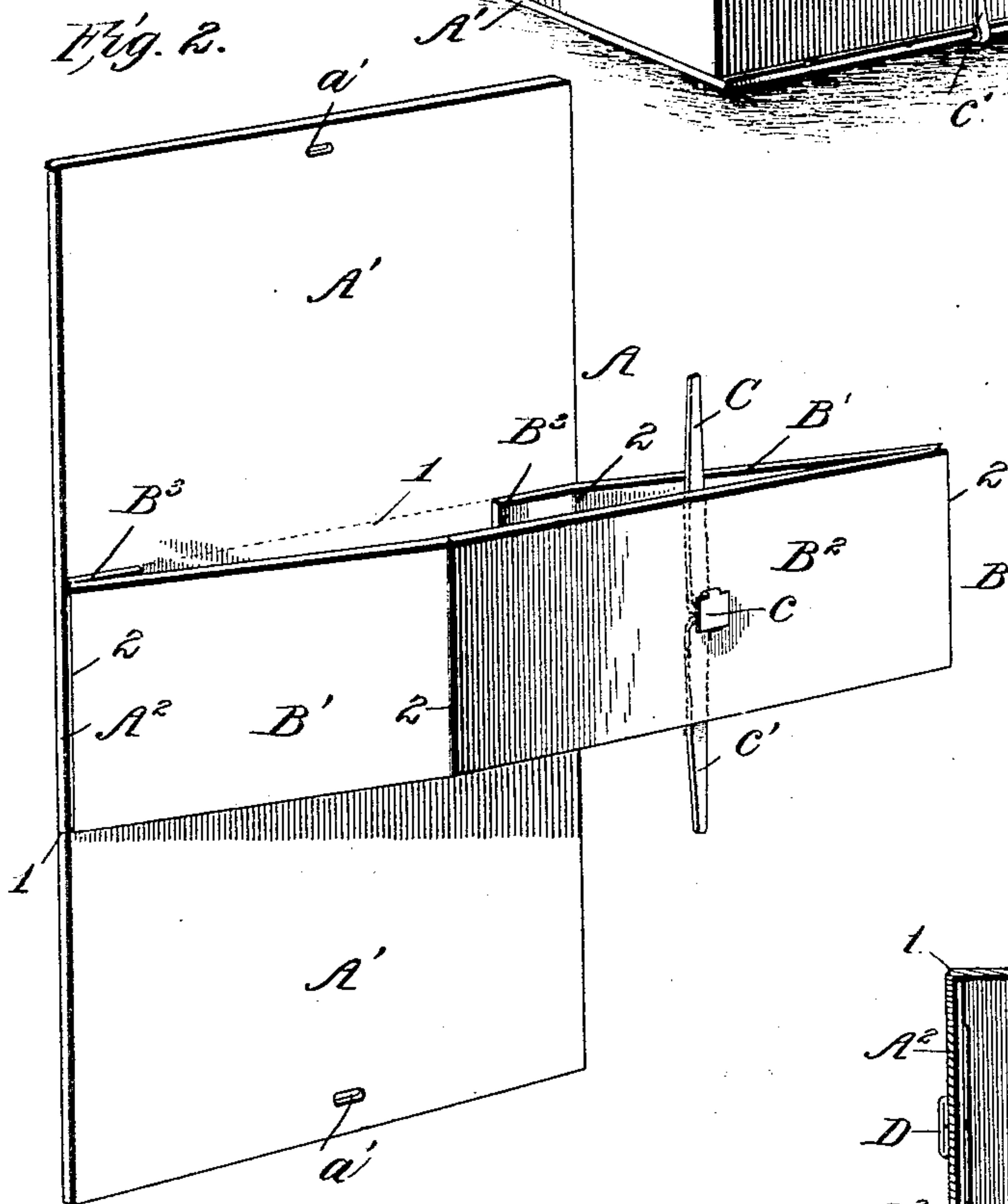


Fig. 4.

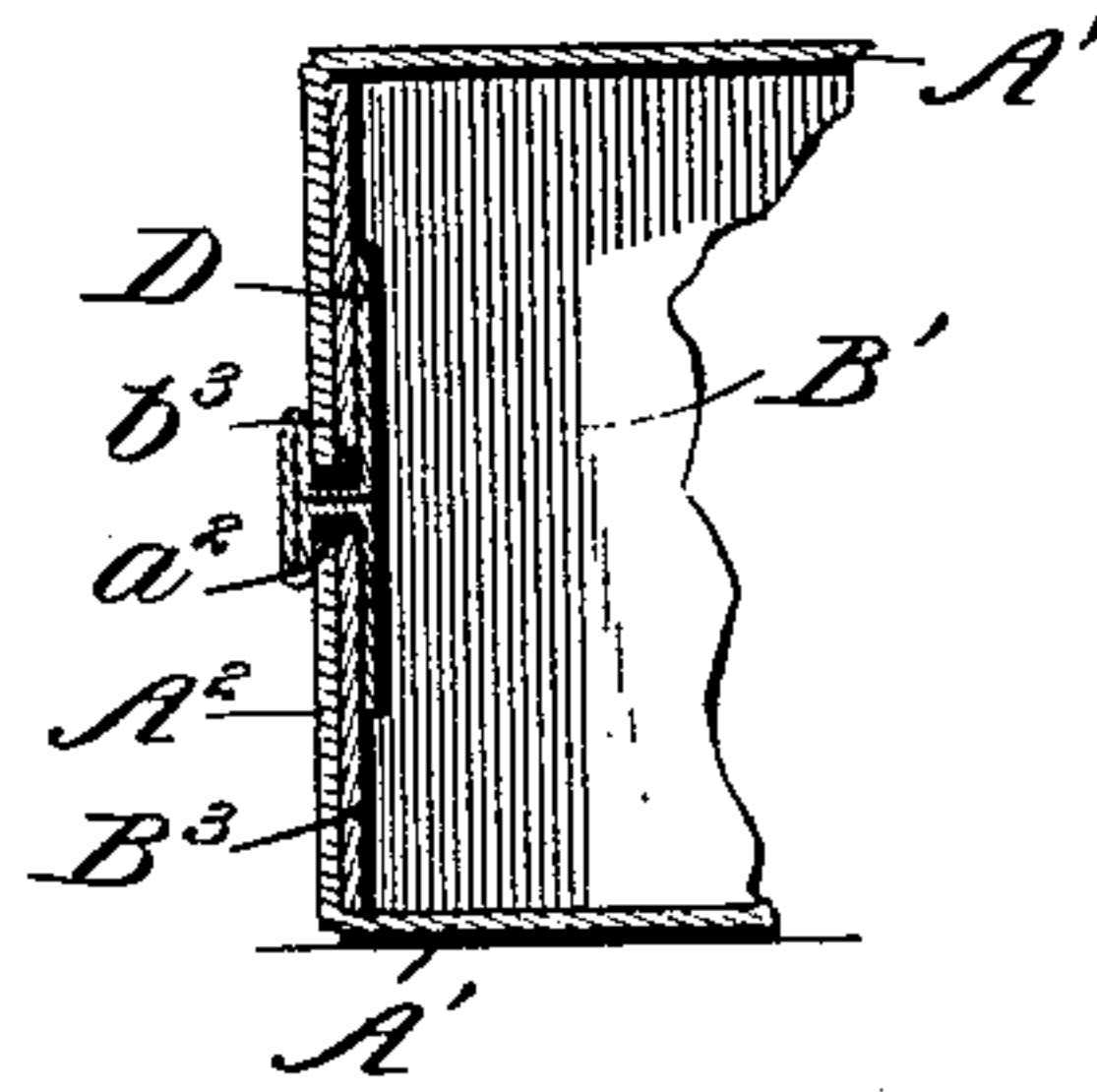


Fig. 3.

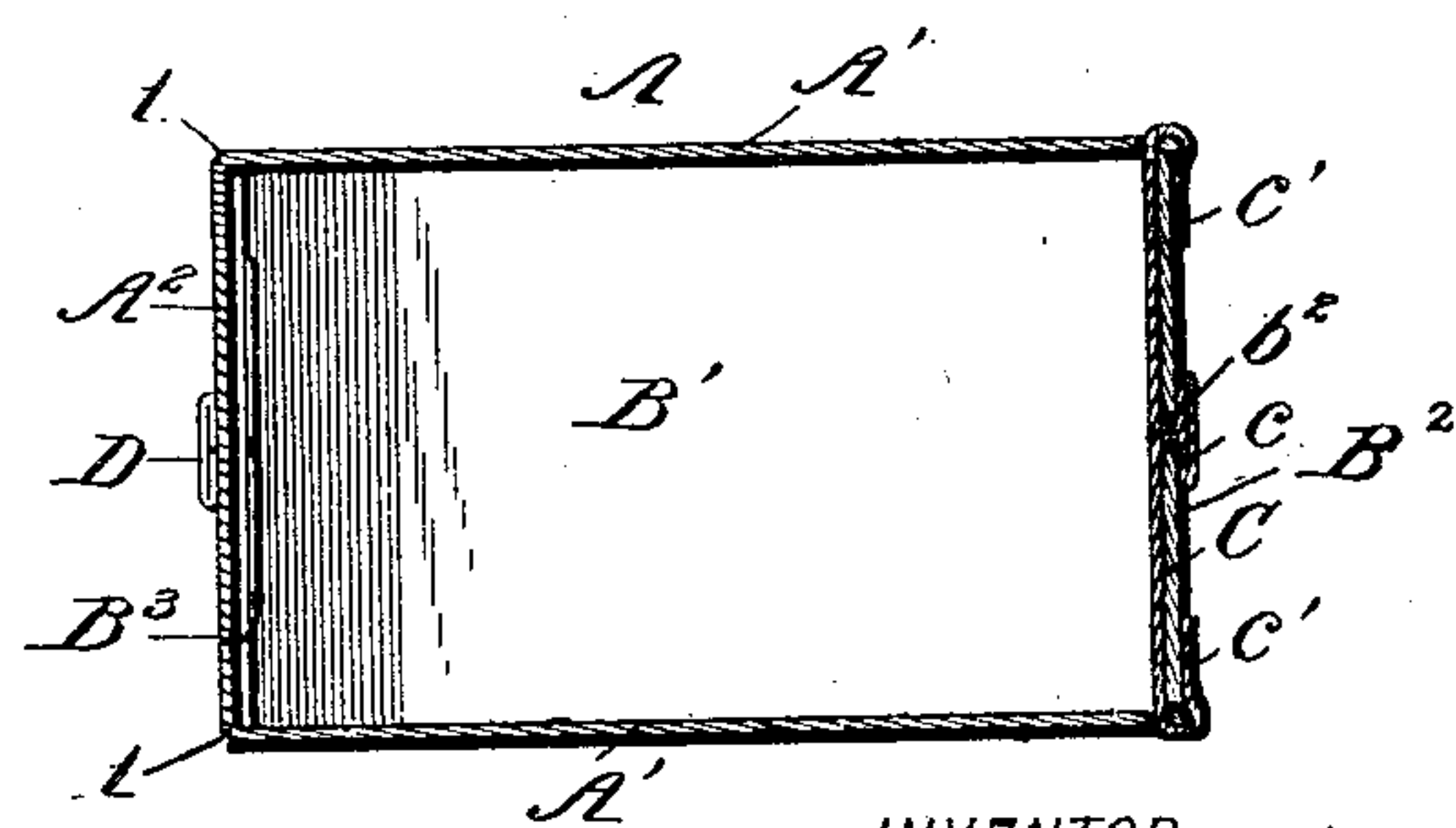


Fig. 5.



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CHARLES H. RUSSELL, OF MANISTEE, MICHIGAN.

COLLAPSIBLE CARTON.

SPECIFICATION forming part of Letters Patent No. 704,380, dated July 8, 1902.

Application filed March 27, 1902. Serial No. 100,257. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. RUSSELL, of Manistee, in the county of Manistee and State of Michigan, have invented a new and useful Improvement in Collapsible Cartons, of which the following is a specification.

My invention relates to an improvement in collapsible cartons, and has for its object to provide a cheap and efficient article of this character adapted to receive fillers or cell-cases, such as are usually used to receive and carry eggs and other articles, one which is easily put together, and which may be collapsed or folded for return shipment, &c.

My invention consists of the particular construction, arrangement, and combination of parts, as will be hereinafter fully set forth, and pointed out in the claims, reference being had to the drawings, in which—

Figure 1 is a perspective view showing the carton with cover raised. Fig. 2 is a perspective view showing the carton partially collapsed. Fig. 3 is a central vertical transverse section. Fig. 4 is a detail vertical section showing construction of flap-fastener. Fig. 5 is a detail view of the cover and bottom fastener detached.

In carrying out my invention I use two blanks A and B, of paper, paper-board, veneer, cloth, leather, or other suitable material. The blank A is of substantially the shape shown in Fig. 2 and is scored along the lines 1 1, dividing said blank into the three members A', A', and A², which may be readily bent or folded along the scored lines. The portions A' A' of blank A are provided with the openings or slots a' a', the office of which will be hereinafter fully set forth, and the portion A² is provided with the slot or opening a², the purpose of which will be later described. The blank B is made of paper, paper-board, veneer, cloth, leather, or other suitable material and is scored along the lines 2 2 2 2, as shown, to thus divide the said blank into the members B' B' B² and laps B³ B³, whereby the said blank can be readily bent and folded along the said scored lines. The portion B² of the blank B is provided at its center with the slot or opening b², and the lap portions B³ B³ are provided with the slots or openings b³ b³. The member A² of the blank A is pro-

vided near its edges and at about its center with the slots a² a².

In Fig. 5 is shown the fastener C for securing the cover and bottom of the carton in place, and in Figs. 1 and 4 is shown the fastening means D D for securing the members or laps B³ B³ of the blank B to the member A² of the blank A. The fastener C consists of a blank of sheet metal, usually tin, of the form shown in Fig. 5, and is bent to form a head c and the two-part shank c' c', the ends of said parts c' c' being preferably beveled or narrower than the body portion thereof. The fasteners D D, consisting of the head d and the two-part shank d' d', are similar in shape to the fastener C, but may be made somewhat smaller.

In setting up or assembling my carton the blank B is bent so that the members or laps B³ B³ lie flat against the inner face of the member A² of the blank A, so that the slots b³ b³ in the laps B³ B³ register with the slots a² a² of said member A² of blank A. The fasteners D D are passed through said registering slots from the outside, and parts d' d' of the shank are then bent in opposite directions flat against the inner faces of the laps or members B³ B³ of blank B, thereby securely fastening the blank B to the blank A. The blank B may now be collapsed or folded flat against the blank A, in which position quantities of the cartons may be packed and shipped. While the blank B occupies its rectangular arrangement the shank of fastener C is passed through the slot b², and one arm of the shank is bent downwardly and passes through the slot a' in A', which has been bent up to form the bottom of the carton. The end of this member of the shank is then bent flat against the lower face of the bottom of the carton, around the edge thereof, and against the face of B². The ordinary paper-board fillers or separating-cells are then placed in the carton, and the articles to be carried are inserted in the cells, after which the cover A' is folded down against the upper edges of the body portion of the carton, the slot a' in said cover passing over the upwardly-extending member c' of the shank of the fastener C. The end of said fastener is then bent down flat against the upper face of the cover, over

the edge thereof, downwardly and against the front face of the carton, completely closing the same.

Thus it will be seen that I produce a simple convenient device for carrying various articles, one which is cheap, easily constructed and set up, and which can be readily "knocked down" or collapsed, whereby they may be packed and shipped in quantities without occupying much space.

My improved carton will be generally used for carrying eggs; but it is obvious that other articles—such as fruit, candies, &c.—may be conveniently carried therein. The blanks being made of paper, paper-board, &c., are cheap and can be easily provided with the necessary scored lines, and the fasteners being made of sheet metal, preferably tin, or some other cheap metal easily bent, all paste is dispensed with, and the carton can be quickly put together, folded, or taken apart. By making the fastener C with the shanks of such length that they fasten the top and bottom to the body portion I dispense with separate fastening means for these parts. The filler or cell-case may also be collapsed and shipped with the collapsed carton.

It is of course obvious that any suitable size of carton may be used, such as will carry the desired number of eggs or other articles.

The fasteners C and D are independent of the body portion of the carton, and should one of the shanks or arms become broken the fastener can be readily removed and a perfect one substituted therefor. The fastener C constitutes in a single instrumentality a double fastener—that is, a fastener for both the top and bottom of the carton.

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

1. A carton consisting of two blanks suitably scored, one of which forms the top, bottom and rear walls thereof, the other blank forming the front and end walls and laps thereto, and means secured to said laps for detachably securing the same to the rear wall.

2. A carton consisting of two blanks suitably scored, one of which comprises three members forming respectively the top, bottom and back wall thereof, the other blank comprising members forming the front wall and ends of the carton, the end members being provided with laps lying against the inner face of the back wall of the carton, detachable fasteners securing said laps to the back wall and means for securing the front wall and top and bottom members of the carton together.

3. A carton consisting of two blanks suitably scored, one of which comprises three members forming respectively the top, bottom and rear wall thereof, the other blank comprising the front and end portions of the carton, the said end portions being provided with laps having attaching means secured thereto, said laps being adapted to lie against and be detachably secured to the inner face of the back wall, whereby the body portion of the carton may be collapsed and lie flat against the back wall thereof.

4. In a carton the combination of a blank scored and bent to form the top, bottom and back wall thereof, slots in the top and bottom members, a second blank scored and bent to form the front walls, end walls and laps thereto, said laps lying against the inner face of the back wall of the carton, slots in said laps, slots in said back wall registering with the slots in the laps, removable fasteners passed through and secured in said registering slots, a fastener secured in the front wall of the carton and provided with members adapted to pass through the slots in the top and bottom of the carton and be bent over, thereby locking the said parts together substantially as shown and described.

5. In a carton the combination with a body portion provided with hinged cover and bottom of an independent fastener secured to the body portion, said fastener consisting of a main or body portion and oppositely-extending arms adapted to extend over and fasten the said cover and bottom against the body portion.

6. In a carton the combination with a body portion having hinged cover and bottom, said cover and bottom provided with openings near their edges, of an independent fastener secured to the said body portion, and consisting of a head and two oppositely-extending arms, said arms being adapted to pass through the openings in the cover and bottom and be bent over the edges of the cover and bottom and fasten the same against the top and bottom edges of the said body portion.

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Witnesses:

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