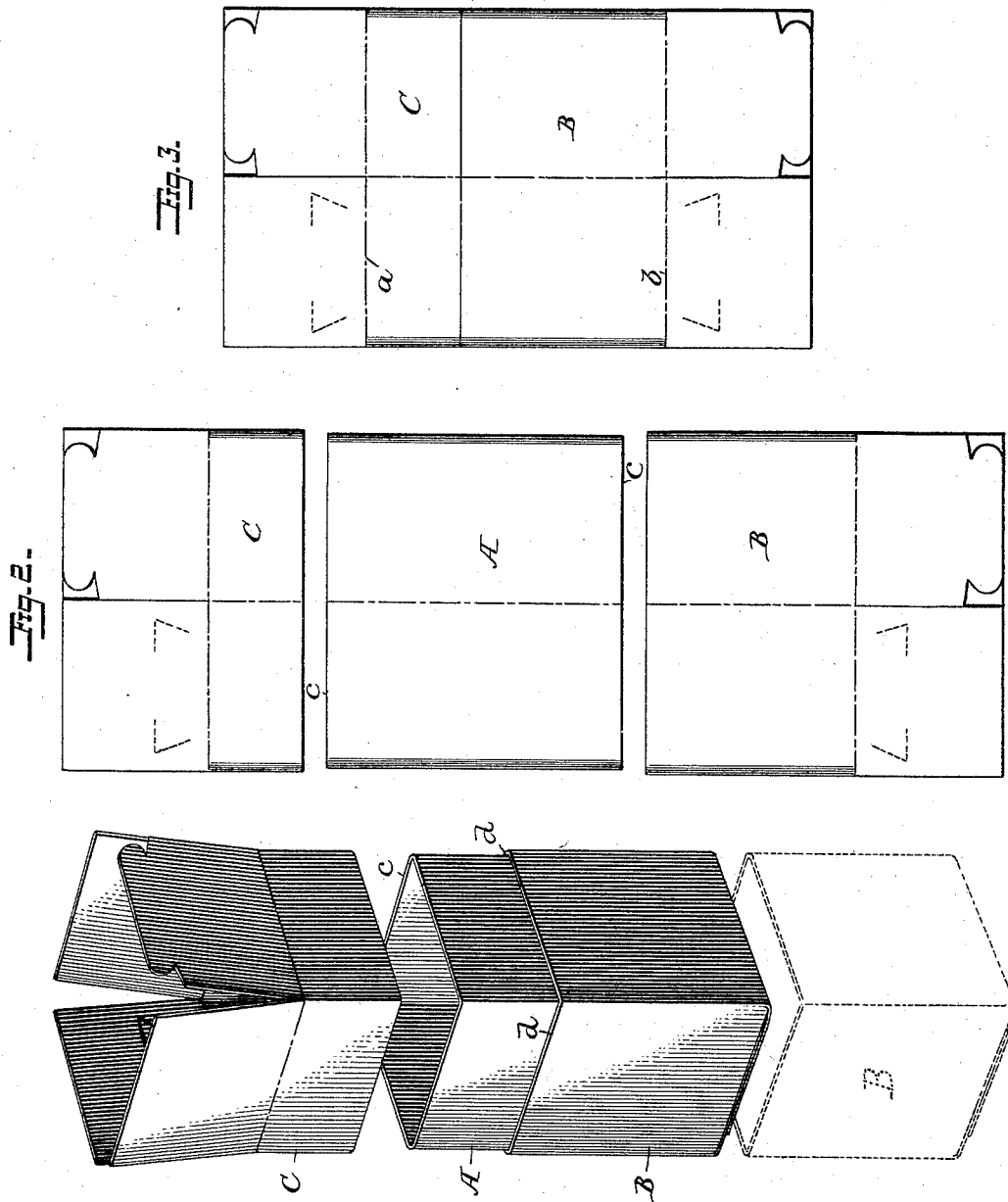


(No Model.)

F. V. BOWMAN.
COLLAPSIBLE PAPER BOX.

No. 448,813.

Patented Mar. 24, 1891.



WITNESSES
Jno. G. Hinkel.
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Fig. 1.

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UNITED STATES PATENT OFFICE.

FREDERICK V. BOWMAN, OF HUNTINGTON, CONNECTICUT.

COLLAPSIBLE PAPER BOX.

SPECIFICATION forming part of Letters Patent No. 448,813, dated March 24, 1891.

Application filed October 20, 1890. Serial No. 368,671. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK V. BOWMAN, a citizen of the United States, residing at Huntington, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Paper-Boxes, of which the following is a specification.

This invention is an improvement in that class of paper boxes known as "collapsible" or "knockdown" boxes; and it consists, essentially, in a box of this character composed of three independent tubular sections, one of which is preferably of coarse material and constitutes the main body portion of the box, while the other sections are adapted to slide over or upon the first section, and are each provided at one end with closing and locking flaps, all as hereinafter fully set forth.

The object of the invention is to provide a strong, durable, and inexpensive box more particularly intended to contain bolts, screws, and other similar articles of hardware, which box may be shipped in a flat condition with its sections either separated for greater convenience in packing, or put together in proper relation ready to be distended to form a complete article, as required for use.

In the accompanying drawings, Figure 1 is a perspective view of my improved box, showing the upper section detached and having its end flaps disengaged or spread, the lower end section being likewise shown removed from the body in dotted lines. Fig. 2 is a side view of the box in its collapsed form, the sections being separated; and Fig. 3 is a similar view with the sections in proper relation ready to be distended to form the box by tucking in the end flaps.

The box consists, essentially, of three angular tube-sections A B C, the section A constituting the body portion, and being preferably made of cheap heavy stock, while the sections B and C are of a finer grade of material, and are adapted to fit or slide over the section A, thus forming the outer covering of the box. The section B, as shown, is somewhat longer or deeper than the corresponding section C, and constitutes, in this instance, the bottom of the box, and each of these sections B and C is provided at its outer end

with closing and tucking flaps by which the ends of the box may be easily and securely sealed.

The body-section A is of such a length as to extend entirely through the outer covering sections to the transverse fold-lines *ab* of the flaps, when the opposite ends of the latter sections abut, as best shown in Fig. 3, thereby insuring uniformity in the folding of the flaps, and also in a measure supporting the flaps against inward strains, the ends *cc* of the body-section forming shoulders against which the flaps rest.

In Fig. 1, the lower section B is shown properly adjusted upon the body-section with its flaps folded and locked in their closed position, and in this condition of the parts the upper end of the section B forms a shoulder *d*, which limits the movements of the section C upon the body, thereby insuring the proper relation of the parts in placing the cover-section upon the box.

The closing and tucking flaps may be of any construction most desirable or suitable for the purpose, the form of flaps shown being one well known in the art and which needs no specific description, as it constitutes no part of the present invention.

In setting up the box for use where the parts are all packed in a separated condition, the section B is preferably first distended into rectangular form and its flaps properly adjusted and secured to seal one end. The body-section A is then distended and properly inserted into the section B, after which the section C may in like manner be distended and slipped over the free end of the body portion until its lower end comes in contact with the shoulder *d*; or if desired, the section C after being distended may be first sealed at the end by closing the flaps and then be adjusted upon the body portion.

Where the box is packed with its sections put together, as shown in Fig. 3, it is only necessary to distend the parts into box form and close one end, after which the box may be filled and the other end closed, as will be understood.

The box, constructed as above described, may be easily and quickly set up, and pos-

sesses special features of utility in that it may be packed in a very small compass and is cheap of manufacture.

I claim—

- 5 A paper box consisting of three independent collapsible tubular sections, one constituting the main body portion and the other sections constituting the ends of the box and fitting and sliding upon said body-section,

and each having closing and securing flaps at one end, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDERICK V. BOWMAN.

Witnesses:

THOS. L. CORNELL,
F. W. BEARDSLEY.