No. 879,337. PATENTED FEB. 18, 1908.

S. J. STUKER.

BOX.

APPLICATION FILED MAR. 6, 1907.

Fig. 1.

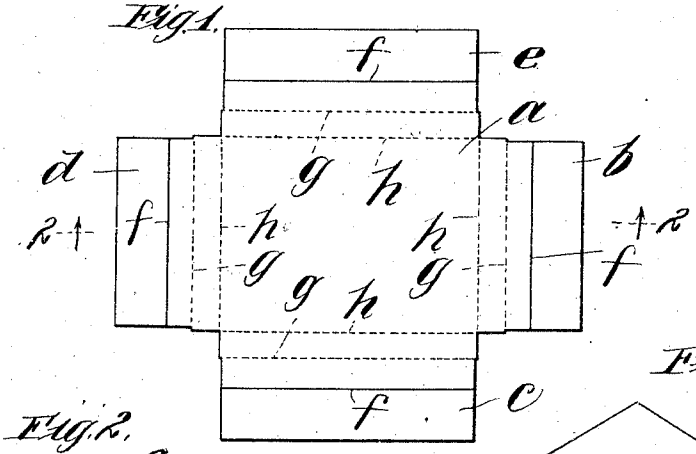


Fig. 2.

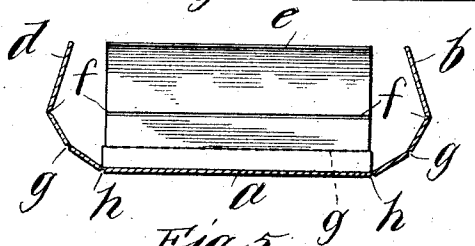


Fig. 3.

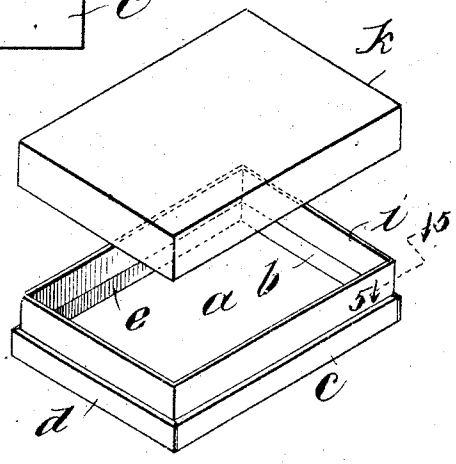


Fig. 5.

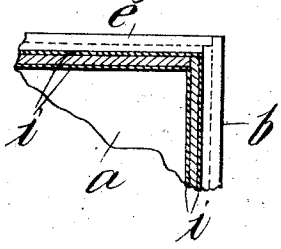
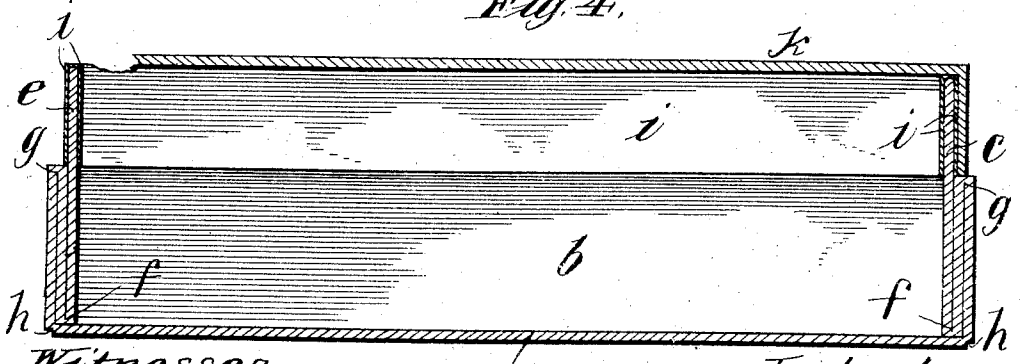


Fig. 4.



Witnesses

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BOX.

No. 879,337. Specification of Letters Patent. Patented Feb. 18, 1908.

Application filed March 6, 1907. Serial No. 360,927.

To all whom it may concern:

Be it known that I, STEPHAN J. STUKER, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Boxes, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to card-board or sheet material boxes, and has for its object the simplification and improvement in the construction thereof.

By means of my invention, I am enabled to form the cover receiving neck portion and the base portion of a box body out of an integral sheet of card-board, whereby the construction of box bodies is simplified and the structural characteristics thereof are improved. Hitherto the necks of box bodies have been separately formed from the balance of the box bodies, and on this account, the necks frequently have become dislodged which result does not follow when my invention is properly practiced.

In the preferred practice of my invention, I form the card-board that is to constitute the box bodies in the shape of a cross, the wings whereof being folded in such a way as to constitute the thickened bottom portion of the box body and the neck of the box body, the cover being disposable about the neck and resting at its edges upon the thickened portion of the box body.

I will explain my invention more fully by reference to the accompanying drawing, showing the preferred embodiment thereof, in which—

Figure 1 is a plan view of a card-board blank shaped and scored so that when folded, it will constitute a box body. Fig. 2 is a sectional view on line 2 2 of Fig. 1 on an enlarged scale and with the sections of the wings partially folded to illustrate the scoring in the card-board. Fig. 3 is a perspective view of a box body and a suitable cover therefor, the box body being constructed in accordance with my invention. Fig. 4 is an enlarged sectional view of the box body with the cover in place. Fig. 5 is a sectional view on line 5 5 of Fig. 3.

Like parts are indicated by similar characters of reference throughout the different figures.

A single sheet of card-board is formed as indicated in Fig. 1 with dimensions, of course, that are suited to the size of the box. In Fig. 1, the bottom face of the box *a* has wings *b c d* and *e* projecting therefrom at right angles. As viewed in Fig. 1, the surface of the card-board there appearing is to be the inside surface of the box body. This face of the card-board is scored along the lines *f*, the space between these scoring lines *f* and the outer edges of the wings being nearly equal to one-half the total width of the wings.

The outside face of the card-board has the wing portions scored along the lines *g*, these lines dividing the space between the lines *f* and the inner ends of the wings substantially into equal parts. Additional scoring lines *h* are also provided upon the outer surface of the card-board, these lines marking the inner ends of the wings and which enable the wings to be turned angularly to the card-board. The scoring lines *f g* and *h* are indicated also very clearly in Fig. 2. The blank card-board is folded along the scoring lines so as to occupy the position indicated in Fig. 4. When the folded wings have been brought to upright positions, they are held together by some suitable fastening agency, such as the paper tape *i*, pasted around the neck of the box, as indicated in Figs. 4 and 5, this paper tape joining the corners of the neck together. There is then constituted the box body of my invention in its preferred form.

Any suitable cover, such as the cover *k*, may be employed to close the box body.

I prefer ordinary paste-board for making the box bodies, though I do not wish to be limited to this material, as other sheet material may be employed to advantage.

While I preferably employ scoring lines *f g* and *h* parallel with the extreme edges of the wings for the purpose stated, I do not wish to be limited to this method of bending the sheet material and determining the places where said material is to be bent.

Each of the wings is desirably similarly scored and similarly bent, so that the thickened bottom portion of the box body may be continued entirely around the same, but I do not wish to be limited to this feature.

The two layers of each S-shape fold adjacent to the bottom of the box constitute a cover-receiving flange, there being preferably four such flanges, one upon each side of the box body. The remaining layer of each S-

shaped fold in addition to constituting a neck portion for the box body, also constitutes a third layer for said flange, whereby said flange has a triple thickness of sheet material.

By way of a résumé, it will be seen that the preferred embodiment of my invention comprises a box body having its bottom and side portions integrally formed out of the same piece of sheet material, all of the side portions of the box body being folded into S-shapes, two of the layers of each S-shape fold which are most adjacent to the bottom of the box being shorter than the remaining layer of the S-shape fold, which latter layer is extended to constitute a neck portion of the box body, and tape fastened to the sides of the box body to hold the same together.

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

1. A box body having bottom and side portions integrally formed out of the same piece of sheet material, said side portions of the box body being folded into S-shapes, the loops of the S-shaped folds being side by side, so that the flange of the box has a triple thickness of sheet material, two of the layers of each S-shape fold which are most adjacent to the bottom of the box being shorter than the remaining layer of the S-shape fold, which latter layer is extended to constitute a neck portion of the box body.

2. A box body having its bottom and side portions integrally formed out of the same piece of sheet material, all of the side portions of the box body being folded into S-shapes, the loops of the S-shaped folds being side by side, so that the flange of the box has a triple thickness of sheet material, two of the layers of each S-shape fold which are most adjacent to the bottom of the box being shorter than the remaining layer of the S-shape fold, which latter layer is extended to constitute a neck portion of the box body, and means for uniting the sides of the box body.

In witness whereof, I hereunto subscribe my name this first day of March, A. D. 1907.

STEPHAN J. STUKER.

Witnesses:
G. L. Cragg,
W. E. Ritchie.