

Oct. 6, 1931.

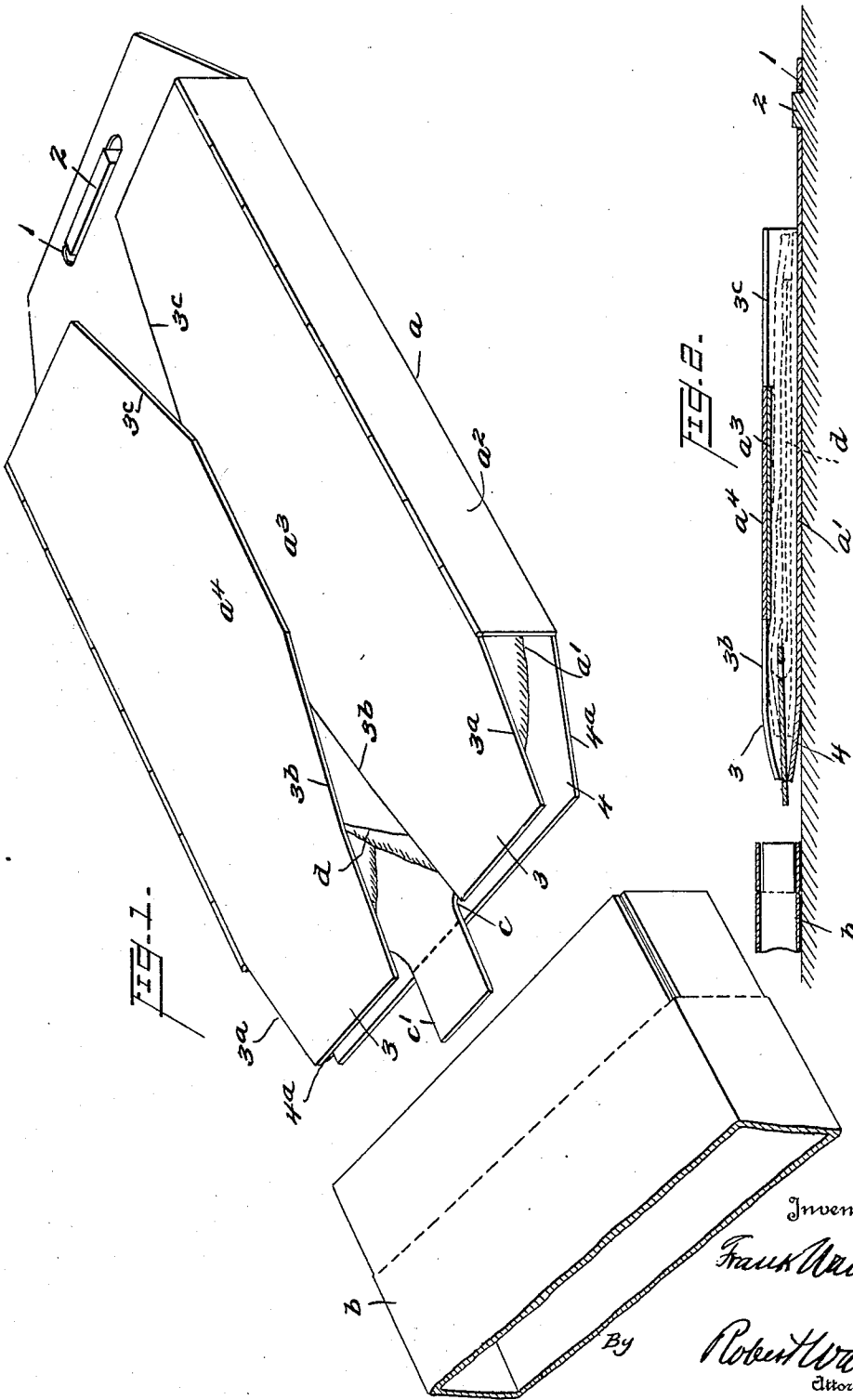
F. WATSON

1,826,536

PACKAGING DEVICE

Filed June 24, 1929

2 Sheets-Sheet 1



Inventor

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By

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Oct. 6, 1931.

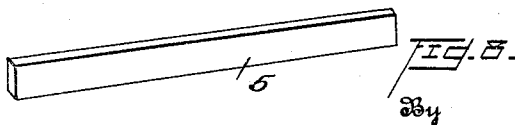
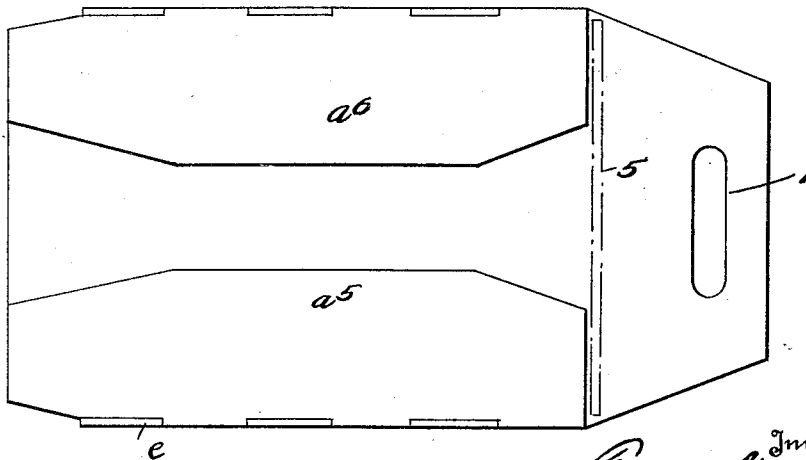
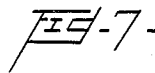
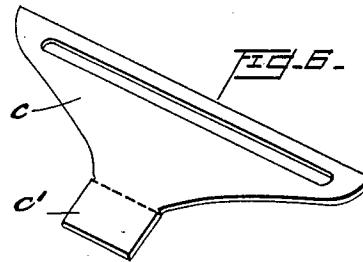
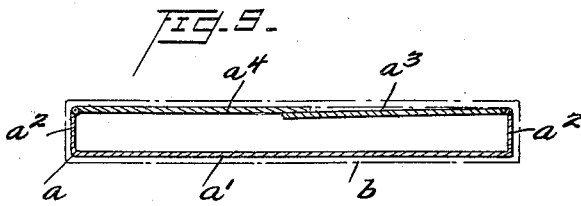
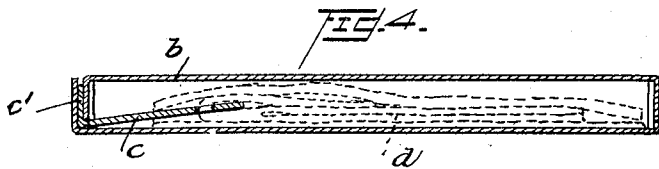
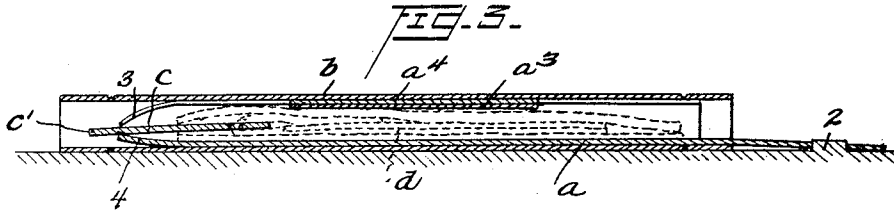
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2 Sheets-Sheet 2



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FRANK WATSON, OF BALTIMORE, MARYLAND

PACKAGING DEVICE

Application filed June 24, 1929. Serial No. 373,217.

This invention relates to a device for packaging suits of clothing and other articles into relatively flat corrugated paper boxes in which the articles may be transported or stored.

The type of box which I prefer to use for containing the articles is one which opens at both ends, the several sides being connected together, and the empty box being adapted to fold flat.

The packaging device comprises a trough-like body of slightly less height and width than the height and width of the interior of the box, so that the device will fit easily within the box. This device is provided with a cover, preferably composed of flaps hinged to the sides of the body and adapted to overlap one another.

In delivering a suit of clothes into a box, the suit is preferably placed upon a clothes hanger having a folding tab at its center, and the suit is then laid upon the bottom of the packaging device, with the clothes hanger toward the forward end of said device. The suit is then folded in the usual manner and the hinged cover flaps are then laid over the suit. The box which is to receive the suit is placed with one of its open ends opposite the forward end of the packaging device and is then pushed endwise so as to enclose the part of the device containing the suit. During this movement, the top of the packaging device prevents the clothing from coming in contact with the upper wall of the box. After the box has reached the position where it encloses the suit, the operator inserts his hand through the open end of the box and grasps the suit hanger and then draws the suit and the box away from the packaging device. The ends of the box are then closed by bending the end flaps inwardly, and, in folding one end, the tab on the suit hanger is interlocked with the flaps so that when the box is set on its opposite end the suit will be suspended from the hanger.

The forward ends of the top and bottom of the packaging device are shaped so that they will easily enter the open end of a box and the adjacent edges of the cover flaps are preferably beveled at their ends, so that the

flaps only overlap in their central portions where the bulk of the clothing is greatest. As the box is pushed on to the packaging device, it gradually applies pressure to the flaps, which are movable relatively to one another, and the flaps flatten down the clothing so that the box passes on to the packaging device with a minimum amount of friction and also without coming into contact with the clothing.

In the accompanying drawings;

Fig. 1 is a perspective view of the packaging device containing garments to be inserted in a box, one end of the latter being also shown;

Fig. 2 is a vertical section taken along the longitudinal center of Fig. 1;

Fig. 3 is a central vertical section taken longitudinally through the packaging device and the box, showing the former within the latter;

Fig. 4 is a similar sectional view through the box after it has been withdrawn from the packaging device and closed at its ends;

Fig. 5 is a central transverse section through the packaging device;

Fig. 6 is a perspective view of the clothes hanger;

Fig. 7 is a top plan view of a packaging device having a modified form of top and adapted for packing miscellaneous loose articles; and,

Fig. 8 is a perspective view of a bar for scraping the loose articles from the packaging device as the box is withdrawn therefrom.

Referring to Figs. 1-6, inclusive, of the drawings, *a* represents a packaging device and *b* indicates a box into which articles are to be delivered by said device. The packaging device is preferably made of thin sheet metal and comprises a flat bottom *a'*, having upright sides *a''*, to which are hingedly connected a top consisting of flaps *a'''* and *a''''*, which overlap one another, as shown in Figs. 1 and 5. The height and width of the packaging device are such that the device will fit freely within the box *b*. At one end, the bottom of the device is formed with an opening 1, adapted to fit around a stationary projec-

tion 2, which may be mounted upon a table or support. The purpose of the projection is to prevent endwise movement of the device when the latter is in use. To facilitate the entrance of the packaging device into the box, the ends 3 of the top portions are bent downwardly slightly toward the bottom of the device, and the end portion 4 of the bottom is bent slightly upward toward the ends 3, and the edges of these end portions of the top and bottom are beveled, as shown at 3^a and 4^a, respectively. The two flaps or leaves comprising the top portion may be swung outwardly to permit the garments which are to be packed to be laid upon the bottom 4, and the top flaps are then folded over the garments, and it is to be noted that when folded, one flap overlaps the other. In the drawings, Fig. 1, a paper clothes hanger *c*, of the form shown in Fig. 6, is arranged within the packaging device and garments *d*, such as a suit of clothes, are upon the hanger, lying upon the bottom of the packaging device and the top flaps extend over the garments. The hanger has a hinged flap *c'* which projects beyond the bottom of the packaging device. When a suit of clothes is folded in the usual manner and laid upon the bottom of the packaging device, the greatest thickness of the suit is about at the central portion of the device and ordinarily some pressure must be applied to the flaps *a*³ and *a*⁴ to hold them parallel with the bottom of the packaging device. This would cause some difficulty in inserting the device into the open end of the box if the flaps were flat and their adjacent edges were parallel and overlapped throughout their lengths. To facilitate the entrance of the device into the box, the ends 3 and 4 of the top and bottom are bent slightly toward one another as before explained, and the adjacent edges of the flaps are cut away, as shown at 3^b and 3^c, so that the flaps only overlap along their central portions where the thickness of the suit tends to hold the central parts of the flaps above the height of the side walls of the device.

The box shown in the drawings is a flat folding box having flaps at each end. In order to insert a suit of clothes within the box, the suit is arranged in the packaging device as shown in Fig. 1, and the box *b* is then moved endwise so as to enclose the portions of said device which hold the suit, as shown in Fig. 3. When in this position, the operator takes hold of the tongue *c'* of the clothes hanger and pulls the box and the clothes hanger with the suit away from the packaging device. The suit is then within the box. The tongue or tab *c'* on the clothes hanger is then bent over and folded between the flaps at one end of the box, as shown in Fig. 4, and when the box is closed at both ends it may be set on one end with the suit suspended from the hanger. These suits, it will be under-

stood, are usually enclosed in tissue paper. By the use of my packaging device, the cover prevents the tissue paper or the suit from coming into frictional contact with the side of the box.

In Fig. 7, I have shown a modification of the packaging device in which the covers *a*⁵ and *a*⁶ are less than half the width of the box and therefore do not overlap. This packaging device *e* is suitable for filling boxes with articles which are put up in separate packages. The flaps will hold the packages in place upon the bottom of the device and prevent them from rubbing against the sides of the box, and the separation of the flaps provides a passageway between them for the hand of the operator. When the box or container is pushed over the packaging device loaded with such articles, a rod 5, adapted to pass beneath the cover flaps, is moved along the bottom of the packaging device by the operator as the latter withdraws the box from said device. The space between the cover flaps affords a passageway between them which permits the operator's hand to extend between the flaps as he moves the bar 5 along with the box to scrape the articles from the packaging device into the box.

The packaging device may, if desired, be made with its side walls hinged to the base and the cover flaps integral with the side walls, but I prefer the construction shown in the drawings wherein the flaps are hinged to the side walls.

What I claim is:

1. A packaging device for filling boxes comprising a bottom, side walls and cover flaps hinged to the side walls, the forward end portions of the flaps, and the bottom, projecting beyond the side walls and tapering toward their ends.
2. A packaging device for filling boxes comprising a bottom, side walls, and cover flaps adapted to overlap one another at their central portions, the adjacent edges of the flaps diverging toward their forward ends and being spaced apart adjacent said ends.
3. A packaging device for filling boxes comprising a bottom, side walls, and cover flaps adapted to overlap one another at their central portions, the adjacent edges of the flaps diverging toward their forward and rear ends and being spaced apart adjacent said ends.
4. A packaging device for filling boxes comprising a bottom, side walls and cover flaps, the forward end portions of the bottom and flaps extending beyond the side walls, said end portions of the flaps converging toward the bottom.
5. A packaging device for filling boxes comprising a bottom, side walls and cover flaps, the forward end portions of the bottom and flaps extending beyond the side

walls, said end portions of the flaps and bottom being beveled on their outer edges.

5 6. A packaging device for filling boxes comprising a bottom, side walls and cover flaps adapted to overlap one another at their central portions, the forward end portions of the bottom and flaps extending beyond the side walls, said end portions of the flaps and bottom being beveled on their outer edges and the end portions of the flaps converging
10 toward the bottom.

7. A packaging device for filling boxes comprising a bottom, side walls and cover flaps adapted to overlap one another at their central portions, the forward end portions
15 of the bottom and flaps extending beyond the side walls, said end portions of the flaps and bottom being beveled on their outer edges and the adjacent edges of the flaps diverging toward their forward ends.
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8. A packaging device for filling boxes comprising a bottom, side-walls and cover flaps, the forward end portions of the bottom and flaps extending beyond the side-walls, said end portion of the bottom converging toward the cover flaps.
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In testimony whereof I affix my signature.

FRANK WATSON.

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