June 27, 1933. A. E. JONES 1,915,673

CARTON

Filed Feb. 24, 1930

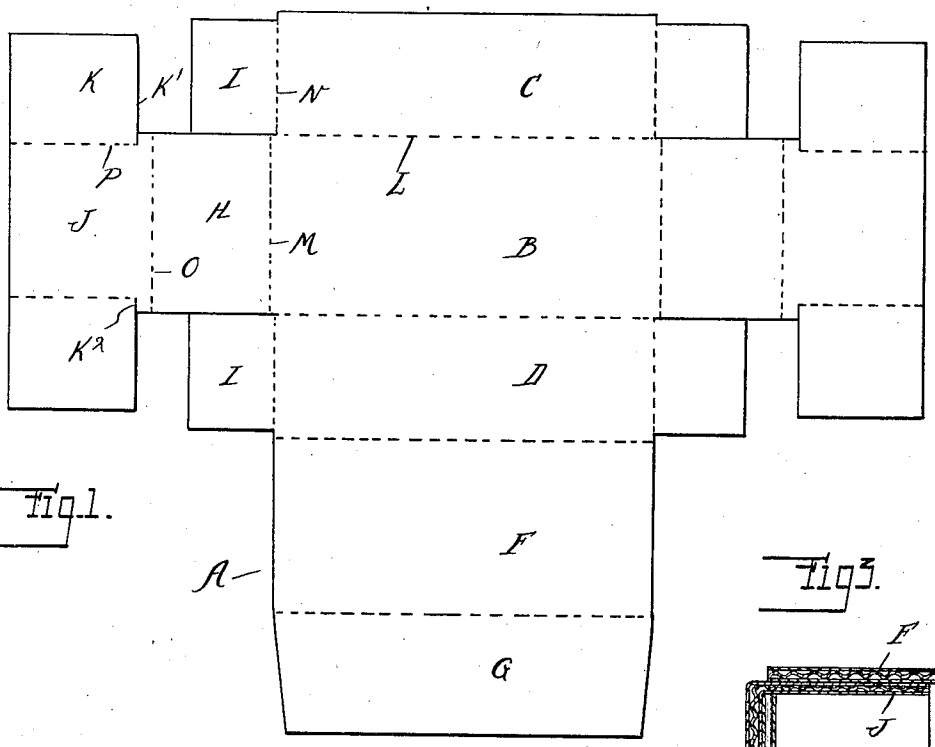


Fig. 1.

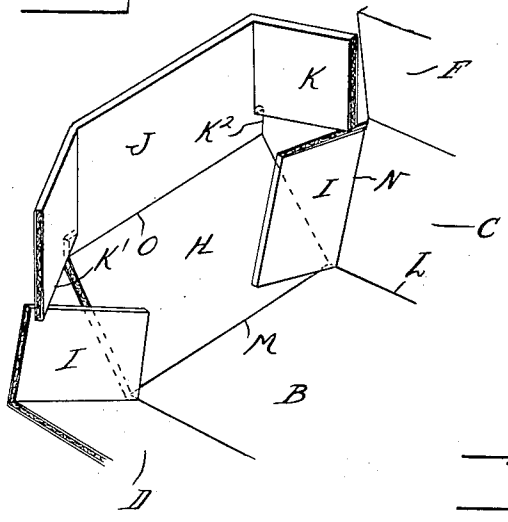


Fig. 2.

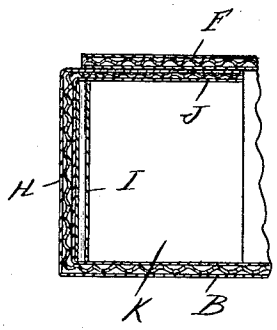


Fig. 3.

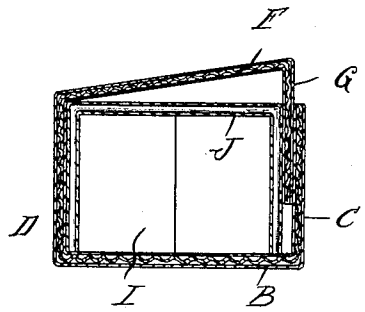


Fig. 4.

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UNITED STATES PATENT OFFICE

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CARTON

Application filed February 24, 1930. Serial No. 430,884.

The invention relates to cartons formed of paper or fiber board and consists in the novel construction as hereinafter set forth.

In the drawing:

Figure 1 is a plan view of the flat blank before the folding of the same;

Figure 2 is a perspective view of a portion of the carton showing the manner of folding the sides and ends to form an interlocking joint;

Figure 3 is a longitudinal section through the end portion of the carton and

Figure 4 is a cross section thereof.

It is the primary object of the invention to obtain a single integral blank which is capable of being folded to form in addition to bottom and cover interlocking sides and ends which not only hold the box in assembled position but also reinforce, strengthen and cushion the same. As shown, A is the blank preferably formed from double faced corrugated board and which is fashioned to have a bottom portion B, sides C and D extending oppositely therefrom, a cover F extending from the side D and a cover flap G extending from the cover. The bottom B has an extension H for forming the end and which is severed from flaps or lateral extensions I of the sides C and D. The end extension H has a further extension J with lateral extensions or flaps K on opposite sides thereof. The blank is also scored as indicated at L to facilitate folding of the side C on the bottom B and at M for the folding of the end H upward from the bottom B. There are also scores N between the portions C and I, and O between the portions H and J, and P between the portions J and K. The scores M and N are slightly off-set to permit of the folding of the portion I inside of the portion H. The score O is located to permit of folding the portion J over the portions I and to bring the edges K′ of the portion K flush with the inner surface of the folded portions I. The score P is off-set inwardly from the line of severance between the portions H and I so as to permit the portion K to fold inside and parallel to the side C and downward perpendicular to the portion J over the portions I. The blank is also severed as indicated at K^2 between the portions K and H extending inward to the score P.

The blank being formed as described can be folded to form the carton by first turning up the sides C and D and ends H folding the portions I inside of the ends H and bending the portions K inward into parallelism with each other and inside of the sides. The portion J is then bent downward into a plane parallel with the bottom B and extending over the portions I while the portions K which are parallel and inside the portions C and D are bent downward to have their edges K′ in contact with the portions I and interlocking therewith.

In folding and engaging the parts as just described, the material is placed under some tension so that when it reaches its final position it is held from disengagement. Also the flap G on the cover F when inserted inside of the side C will extend between this and the portion I which will prevent accidental disengagement.

The completed carton is strongly reinforced at its ends by the double thickness of material both along the end walls and also the side walls and top. Furthermore, when the flap G is inserted and pressed downward between the side walls C and the downturned portions K it must be sprung, placing the material under tension which resists the opening of the cover.

What I claim as my invention is:

1. A carton formed from a single blank of double faced corrugated board having a bottom, sides, ends, a cover extending from one of the sides and a flap extending from said cover, flaps extending from said sides severed from said ends and folded on a line spaced inwardly from the fold of said ends to rest adjacent the inner surface thereof, extensions of said ends having laterally extending wings, said end extensions being folded over said flaps and extending inwardly parallel to the bottom, said wings being slightly severed from said end extensions folded on a line spaced inwardly from the edges of said end extensions and extending downwardly therefrom adjacent said sides and abutting said flaps thereby holding said

carton in formation and said cover being foldable over said extension with the cover flap inserted between said wings and the side wall and having an interlocking engagement therewith.

2. A carton formed from a single blank of relatively thick material having a bottom, sides, ends, a cover extending from one of the sides and a flap extending from said cover, flaps extending from said sides severed from said ends and folded on a line spaced inwardly from the fold of said ends to rest adjacent the inner surface thereof, extensions of said ends having laterally extending wings, said end extensions being folded over said flaps and extending inwardly parallel to the bottom, said wings being slightly severed from said end extensions folded on a line spaced inwardly from the edges of said end extensions and extending downwardly therefrom adjacent said sides and abutting said flaps thereby holding said carton in formation and said cover being foldable over said extension with the cover flap inserted between said wings and the side wall and having an interlocking engagement therewith.

In testimony whereof I affix my signature.

ALBERT E. JONES.