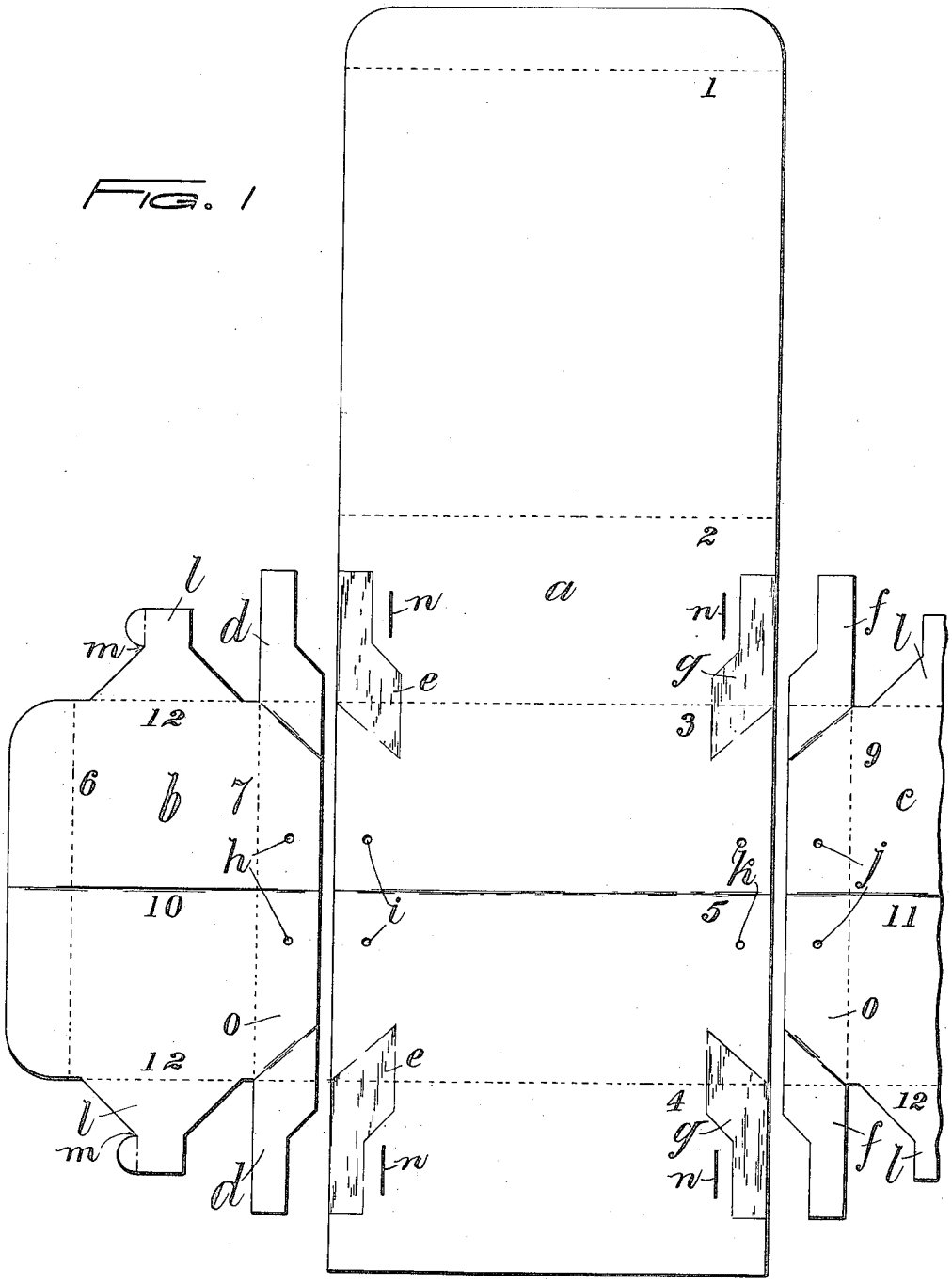
Dec. 18, 1923. 1,478,336

R. HUNT

FOLDING BOX OR CARTON

Filed Aug. 15, 1922 2 Sheets-Sheet 1

FIG. 1



Inventor
R. Hunt
by Geo. Owen
Atty

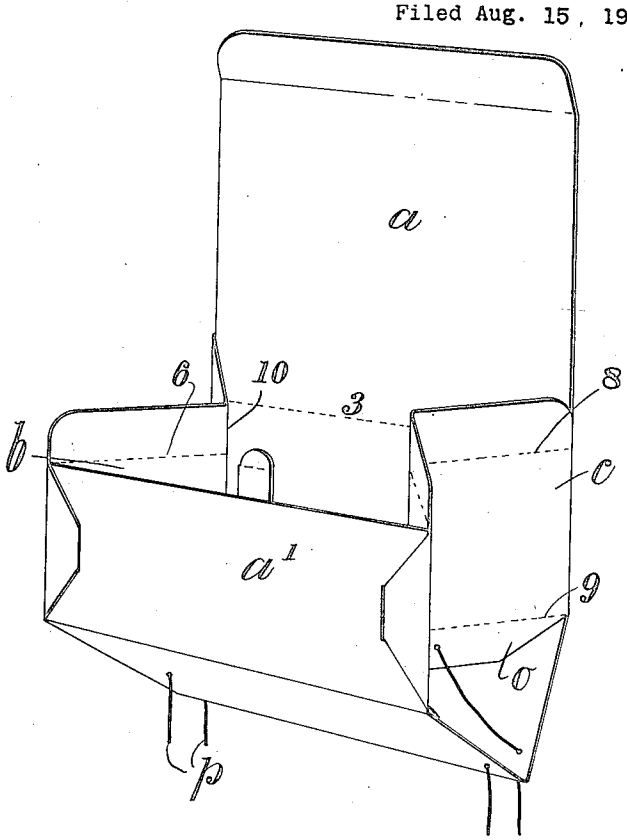
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FIG. 2



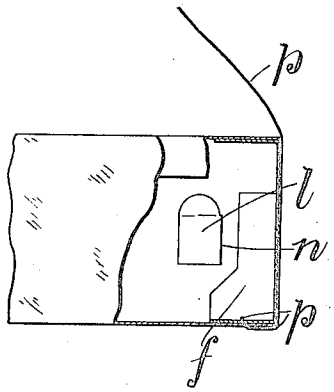
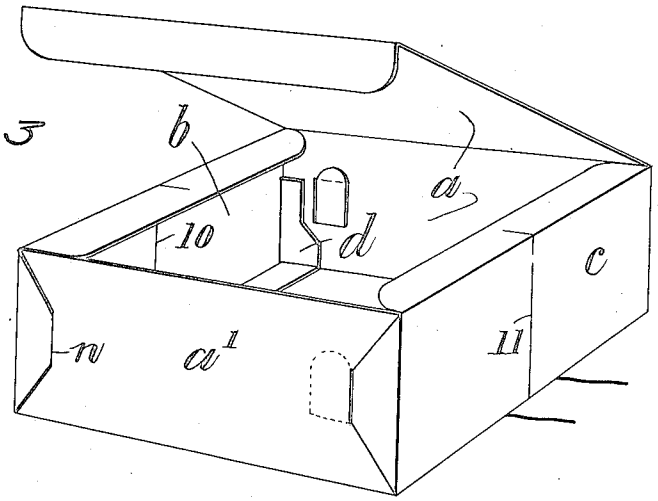


FIG. 4

FIG. 3



Inventor
R. Hunt
by
Atty

Patented Dec. 18, 1923.

1,478,336

UNITED STATES PATENT OFFICE.

ROWLAND HUNT, OF HACKNEY, LONDON, ENGLAND.

FOLDING BOX OR CARTON.

Application filed August 15, 1922. Serial No. 582,082.

To all whom it may concern:

Be it known that I, ROWLAND HUNT, a British subject, of 130 Shacklewell Lane, Hackney, London, E. 8, England, have invented certain new and useful Improvements in a Folding Box or Carton, of which the following is a specification, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to folding boxes or cartons, hereinafter referred to as boxes. The invention is particularly applicable, but not limited, to boxes of the kind provided with string or like material which when pulled will draw the box from its folded position to shape, that is to a position substantially ready for use, the said string or equivalent being used to carry the box or to tie it up.

Boxes of this kind are usually made of cardboard, rectangular in shape and stamped as blanks adapted to be bent along lines which may be creased to facilitate the bending. Various methods of attaching the sides together and to the bottom have been adopted whilst the top is, as is usual with cardboard and the like boxes, a part integral with one of the sides.

My invention is designed to provide a box of the type referred to which shall be inexpensive to make and of strong and simple construction.

I construct my box with three blanks, viz, a main or body blank and two side blanks which latter have flange portions adapted to lie on and strengthen the bottom of the box but both the sides and flanges are of such construction that they can be bent inwardly towards each other when the box is collapsed, the strings when employed being attached to the flange portions and inserted through the body in such a manner that when pulled the sides will straighten, the flange portions will bend at right angles to the sides and the box be ready for use immediately. This construction is free from additional end pieces or strengthening parts other than those which are parts of the main blank or end portions.

In addition I preferably connect the before mentioned collapsible sides to the main blank by means of tongues adapted to pass through slots said tongues having notches which will engage the corners of the slots to prevent the tongues being pulled out.

An example of my invention is shown in the accompanying drawings in which:—

Fig. 1 shows the three blanks in flat form these being the main blank *a* and the side or end blanks *b* and *c*, part only of blank *c* being shown.

Fig. 2 shows the box in half collapsed position.

Fig. 3 shows the box erected ready for use.

Fig. 4 shows a detail.

The blank *a* is adapted to be folded along the dotted lines indicated at 1, 2, 3 and 4 and also to be bent along the line 5 when collapsed. The blank *b* will be folded along the dotted lines 6, 7 and the blank *c* along similar dotted lines 8 (Fig. 2) and 9. The part *b* folds on the line 10 when the box is collapsed and the part *c* on line 11. Blank *b* has projecting portions *d*, *d* which are gummed on the shaded parts *e*, *e* of the blank *a* and blank *c* has like projections *f* adapted to be stuck on parts *g*, *g*. The shape of the gummed portions may vary from that shown and any suitable fastening means may be used in place of an adhesive. These projections have dotted lines across them which will coincide with the lines 3 and 4 respectively. When the three blanks are gummed together the string holes *h* will coincide with the holes *i* and string holes *j* with the holes *k*. The blanks *b* and *c* are provided with tongues *l* having tongues or notch portions *m* adapted to fit into and engage the slots *n* in the blank *a*. These tongues are bent along the lines 12. The portions *o* of the blanks *b*, *c* and in which the holes *h*, *h* and *j*, *j* are made, are not stuck to the blank *a* but as will be clearly seen in Fig. 2 are free therefrom except as above stated at the projecting portions *d*, *d* and *f*, *f*.

It will be evident from looking at Fig. 2 that when the part *a'* of the blank *a* is pressed down, the side members *b*, *c* will collapse and lie flat between *a* and *a'* the flange portions of these sides of which (*o* is seen) will lie in the same plane as the body part of their blanks but when the strings *p*, *p* are pulled the flange parts of *b* and *c* will be drawn tightly down on to the bottom portion of the box, the parts *b*, *c* will be stretched straight and the box will be ready for use substantially as seen in Fig. 3. The upper flanges of the parts *b* and *c* and the

flange on the edge of the cover are of usual type.

In Fig. 4 which shows a corner of the box in section it will be seen that the string *p* has pulled the parts into a rigid construction and that the tongue *l* has a good engagement in the slot *n*.

What I claim is:—

1. A folding box comprising a central portion bent to form two opposite sides, the bottom and the cover of the box; two other opposite sides attached to the said bottom by flanges and attached also to the first mentioned opposite sides, said other sides being adapted to bend vertically and fold inwardly towards each other and said bottom being adapted to bend horizontally and to fold outwardly and strings passed through the said flanges and through the said bottom and operating to position said flanges with relation to the bottom when the strings are drawn upon.

2. A rectangular folding box having a bottom adapted to fold outwardly and in doing so to bring two flat opposite sides towards each other, a cover attached to one of the said flat sides and two other sides attached at their ends to the flat sides and attached also to the said bottom, said other sides being adapted to fold towards each other when the flat sides are brought towards one another, flanges on the folding sides and adapted to fold therewith, and strings connected to the said flanges and to the bottom of the box by which the box can be pulled out of its folded position.

3. A folding box having a bottom adapted to fold outwardly on a horizontal line, ends foldable with relation to opposing edges of the bottom, sides connected to the ends and with their marginal edges free of connection to the bottom, said sides being adapted to fold inwardly on vertical lines, the sides having flanges adapted to fold relative to such sides and bear upon the bottom when the sides are extended, and a string secured to said flanges and passing through the bottom, said string being operable to position the sides relative to the bottom and hold the flanges of the sides in contact with the bottom.

4. A folding box, comprising a bottom adapted to fold outwardly on a horizontal line, ends foldably connected with opposing edges of the bottom, a cover foldably connected to one of the ends, sides connected to the ends and with their marginal edges free of connection with the bottom, said sides being adapted to fold inwardly on vertical lines and having upper and lower flange portions foldable relative to the sides to bear upon the bottom and also support the cover, and strings looped through the bottom flanges of the sides and through the bottom, said strings being operable to position the sides and bottom flanges thereof relative to the box bottom in box forming relation.

5. A folding box, comprising a bottom adapted to fold outwardly on a horizontal line, ends foldably connected with opposing edges of the bottom, a cover foldably connected to one of the ends, sides connected to the ends and with their marginal edges free of connection with the bottom, said sides being adapted to fold inwardly on vertical lines and having upper and lower flange portions foldable relative to the sides to bear upon the bottom and also support the cover, and strings looped through the bottom flanges of the sides and through the bottom, said strings being operable to position the sides and bottom flanges thereof relative to the box bottom in box forming relation and being of a length to permit their extended portions after operation to be used as a tie for the box.

6. A folding box, comprising a rectangular blank scored to fold to present the ends, bottom, and top of the box, said bottom being scored transverse the blank to permit independent folding of the bottom, and duplicate blanks forming sides and each having an extension to form a bottom flap for the sides, said bottom flaps having extensions to permit the sides to be secured to the rectangular blank, the sides proper having extensions to interlock with the box end forming portions of the rectangular blank, said sides being scored for folding transverse their lengths.

In witness whereof I have hereunto set my hand in presence of two witnesses.

ROWLAND HUNT.

Witnesses:
ELIZABETH PARRY,
BARBARA BROOM.