

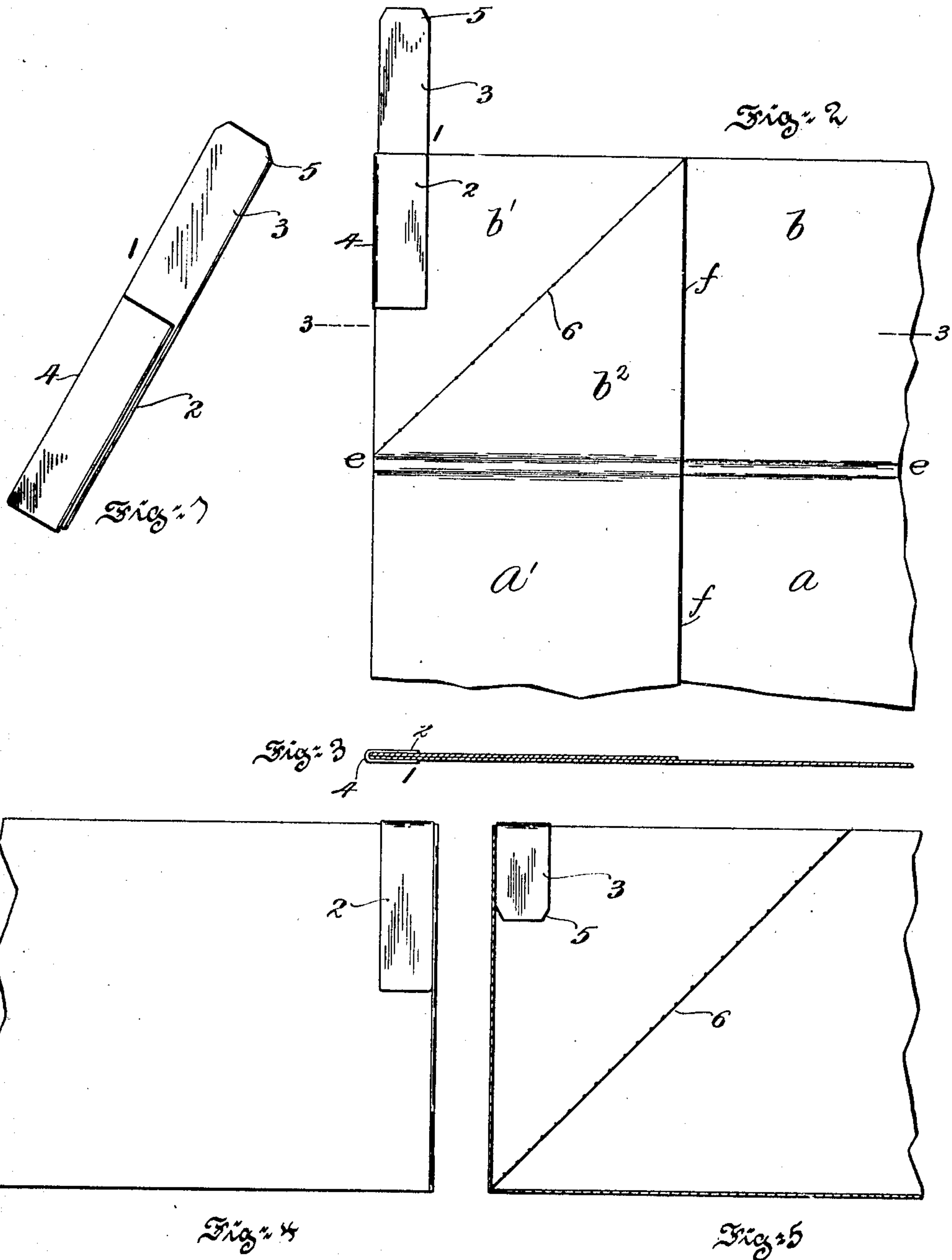
J. F. McCALL.

PAPER BOX.

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916,181.

Patented Mar. 23, 1909.



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UNITED STATES PATENT OFFICE.

JEROME F. McCALL, OF FRANKFORD, PENNSYLVANIA.

PAPER BOX.

No. 916,181.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed April 5, 1907. Serial No. 366,486.

To all whom it may concern:

Be it known that I, JEROME F. McCALL, a citizen of the United States, and resident of Frankford, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Paper Boxes, of which the following is a specification.

The principal object of the present invention is to provide a fastener for the corners of knock-down boxes and their lids, which shall not only be comparatively inexpensive to make and apply but which shall also perform the double function of firmly holding the folds at the corner of the boxes and lids to place, and of protecting the edge of the corners.

Other objects of the invention will appear from the following description and the invention itself will be first described and afterward claimed.

The nature, characteristic features and scope of the invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, and in which—

Figure 1, is a perspective view of a fastener detached. Fig. 2, is a top or plan view showing a corner of a box or lid in knock-down position with the fastener applied thereto. Fig. 3, is a sectional view taken on the line 3—3 of Fig. 1. Fig. 4, is an elevational view of the corner of a box or lid showing the fastener in operative position, and Fig. 5, is an elevational view of the inside of the corner of a box or lid, showing the fastener.

In the drawings 1, is the fastener and it may advantageously be made of metal capable of being easily bent and composed of sufficient strength for the purpose. The fastener consists of a folded shank 2, and a projecting tongue 3. The shank is folded at the edge 4 and is open at its other three edges, and if desired the corners of the tongue 3, may be beveled off as at 5 or otherwise shaped. When the box part is knocked down, that part of it which consists of two plies is inserted into the shank 2, as shown in Fig. 2, and the tongue 3 may project as shown in that figure or it may be bent down onto the shank for convenience in packing. When the box part is placed in position the tongue 3, is bent down over three plies of the

box part as shown in Fig. 5, it being understood that the box part folds up along the line 6 in the ordinary and well understood manner.

Referring to Fig. 2, the parts a , a^1 , of the box are one-ply and the parts b , b^1 , b^2 , are two-ply. The edge of the top ply b , b^2 , is shown at e , e' . f , is the edge of the infolded side.

To set up the box the top ply at b , is turned up into vertical position as is also the single ply a^1 , the former being turned in and the latter out. The fold at 6, lies inside the box as shown in Fig. 5, and the single ply at b^2 , separated by the creasing or folding is made to face and lie against the part b^1 , thus bringing the three plies together at the corner when the box is set up.

From the foregoing description it is evident that when assembled the shank 2 clasps two plies of the corner and the tongue folds over three plies of the corner so that the corner as a whole is not only reinforced and made strong, but is also protected by the portion 4 of the shank.

Having thus described the nature and objects of my invention, what I claim as new and desire to secure by Letters Patent is—

1. The combination of a knock down box part having at its corner a creased portion which brings three plies together, and a fastening consisting of a centrally folded shank constituting a corner protector brace and having straight folds clamping the two outside plies between them and one of said folds having normally projecting from its end a straight flat top adapted to be turned inward the other fold and clamp the third ply between said fold and tongue, substantially as described.

2. A fastener for boxes comprising a metal shank folded along approximately its center line and forming two flat straight folds and one of said folds having a straight flat tongue projecting from its end in the same plane with it, substantially as described.

In testimony whereof I have hereunto signed my name.

J. F. McCALL.

In the presence of—

W. J. JACKSON,

FRANK E. FRENCH.