

J. O. NOBLE.
 REINFORCED SHIPPING CASE.
 APPLICATION FILED NOV. 18, 1910.

988,020.

Patented Mar. 28, 1911.

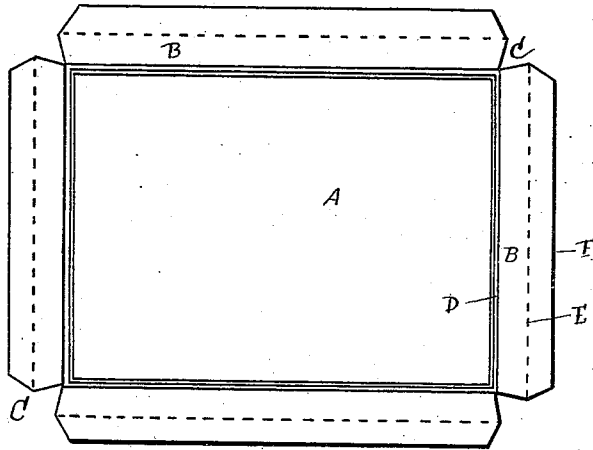


Fig. 1-

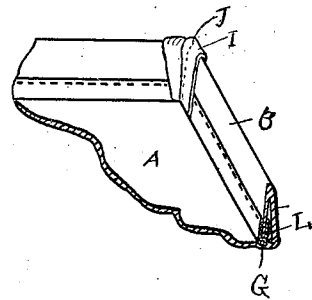


Fig. 4-

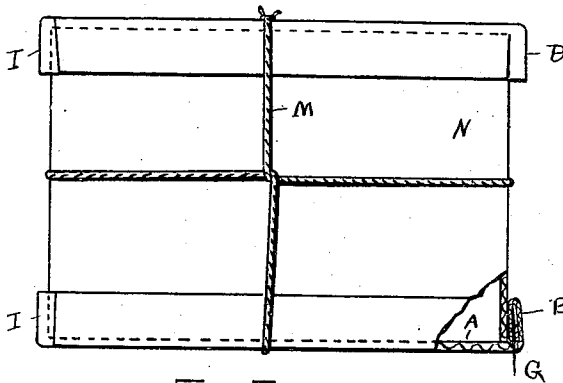


Fig. 2-

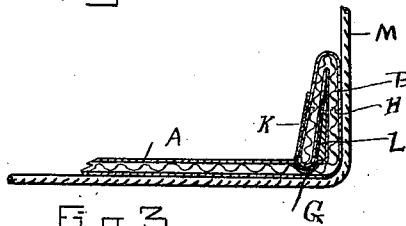


Fig. 3-

WITNESSES -

Mary C. Page
 E. L. Maugan

INVENTOR -

John C. Noble,
 by Clifford Verrill Clifford,
 attorney

UNITED STATES PATENT OFFICE.

JOHN O. NOBLE, OF PORTLAND, MAINE, ASSIGNOR TO CUMBERLAND PAPER MANUFACTURING COMPANY, OF PORTLAND, MAINE, A CORPORATION OF MAINE.

REINFORCED SHIPPING-CASE.

988,020.

Specification of Letters Patent.

Patented Mar. 28, 1911.

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To all whom it may concern:

Be it known that I, JOHN O. NOBLE, a citizen of the United States, residing at Portland, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Reinforced Shipping-Cases, of which the following is a specification.

This invention relates to improvements in shipping cases, cartons, etc., especially such as are made of pasteboard, corrugated paper board or other material which possesses a considerable degree of rigidity, but which may be folded at will.

More particularly it relates to cases which cannot be advantageously formed from a single blank. It is customary in these cases to provide heads, top and bottom, one or both, between which a detachable body is placed, the ends of the body part resting telescopingly inside of the heads, the heads being otherwise independent of the body part, and my invention relates particularly to the formation of the heads aforesaid. It is designed to provide heads which shall be strong and durable having means for supporting the flanges, means for resisting the tendency of the tie cord to cut through the head into the box and injure the contents thereof, and means for adjusting the flanges so as to admit of the nesting of the heads.

In the accompanying drawings, Figure 1 is a plan view of a blank suitable for forming up a head; Fig. 2 is an elevation partly in section showing one embodiment of my invention; Fig. 3 is an enlarged fragmentary vertical section of the head; and Fig. 4 is a perspective interior view of a corner of the head.

Same reference characters indicate like parts in the several figures.

The blank which may be of pasteboard or corrugated board, has a central area A and flanges B at each edge thereof formed by removing portions C at the corners. The flanges B are designed to form the walls or rim of the head, and in forming up the head the flanges are bent upwardly on line D, then folded downwardly and inwardly on dotted line E substantially at the middle thereof. When thus folded down, the edges F will rest upon the bottom of the main part of the blank, or the central line of division may be positioned so that the edge F

will project slightly below the part A into a recess or groove G formed therefor in the bottom of the head. The edges of the turned down portions of the flanges resting upon the part A or upon the bottom of recess B formed therein serves greatly to strengthen the flange of the head, offering great resistance to the pressure tending to collapse it inwardly. The two parts of the flanges of the head are secured together at a point somewhat above the bottom of the head by any desirable fastenings, as stitches H or other suitable means.

It is sometimes desirable to have the heads flare outwardly slightly to facilitate nesting for economy of transportation and storage. To provide for this, cloth corner stays I are folded lengthwise so as to double upon themselves laterally, as indicated by dotted lines J, Fig. 4, so that the flanges can be moved outwardly slightly, the cloth unfolding, the flaring movement being just sufficient to allow one head to be placed inside another. It will be evident that when in use the tie cord M will bring the flanges back to a vertical position against the sides of the body N.

To prevent the tie cord from cutting through the material, I bind the edge F of the flange with a tough material K, cloth for example, and I may also place a reinforcing strip of thin wood or other suitable material L loosely between the folded portions of the flange below the fastenings H, the width of the strip being substantially equal to the distance from the fastenings to the bottom of the head, the fastening stitches holding the strip against upward movement, enabling it to resist the tendency of the tie cord to cut through the edge of the head.

The advantages of my improved head are cheapness, durability, resistance to cutting action of tie cord and economy in transportation and storage.

Having thus described my invention and its use, I claim:

1. A head for shipping cases having flanges formed by turning the edges of the blank upwardly and then inwardly and downwardly, the edges of the inner folds resting upon the bottom of the head, and means for staying the corners comprising a piece of flexible material folded longitudinally to double upon itself laterally and adapted to be secured to the corners of the flanges on the inside and outside, whereby

the flanges are free to flare outwardly a limited distance only.

2. A head for shipping cases having flanges formed by turning the edges of the
5 blank upwardly and then inwardly and downwardly, the bottom of the head being provided with depressions countersunk therein near the edges, the edges of the inner folds projecting downwardly into and
10 being supported in said depressions.

3. A head for shipping cases having flanges formed by turning the edges of the

blank upwardly and then inwardly and downwardly, the edges of the inner folds resting upon the bottom of the head, and 15 means for fastening the two parts of the flange together intermediate the top and bottom and a strip of relatively hard material inserted between the two parts of the flange below said fastening means.

JOHN O. NOBLE.

Witnesses:

ELGIN C. VERRILL.

MARY C. PAGE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
