J. C. MARTIN.

DEVICE FOR SHIPPING ROLLS OF PAPER.

APPLICATION FILED JAN. 7, 1913.

1,068,066.

Patented July 22, 1913.

2 SHEETS—SHEET 1.

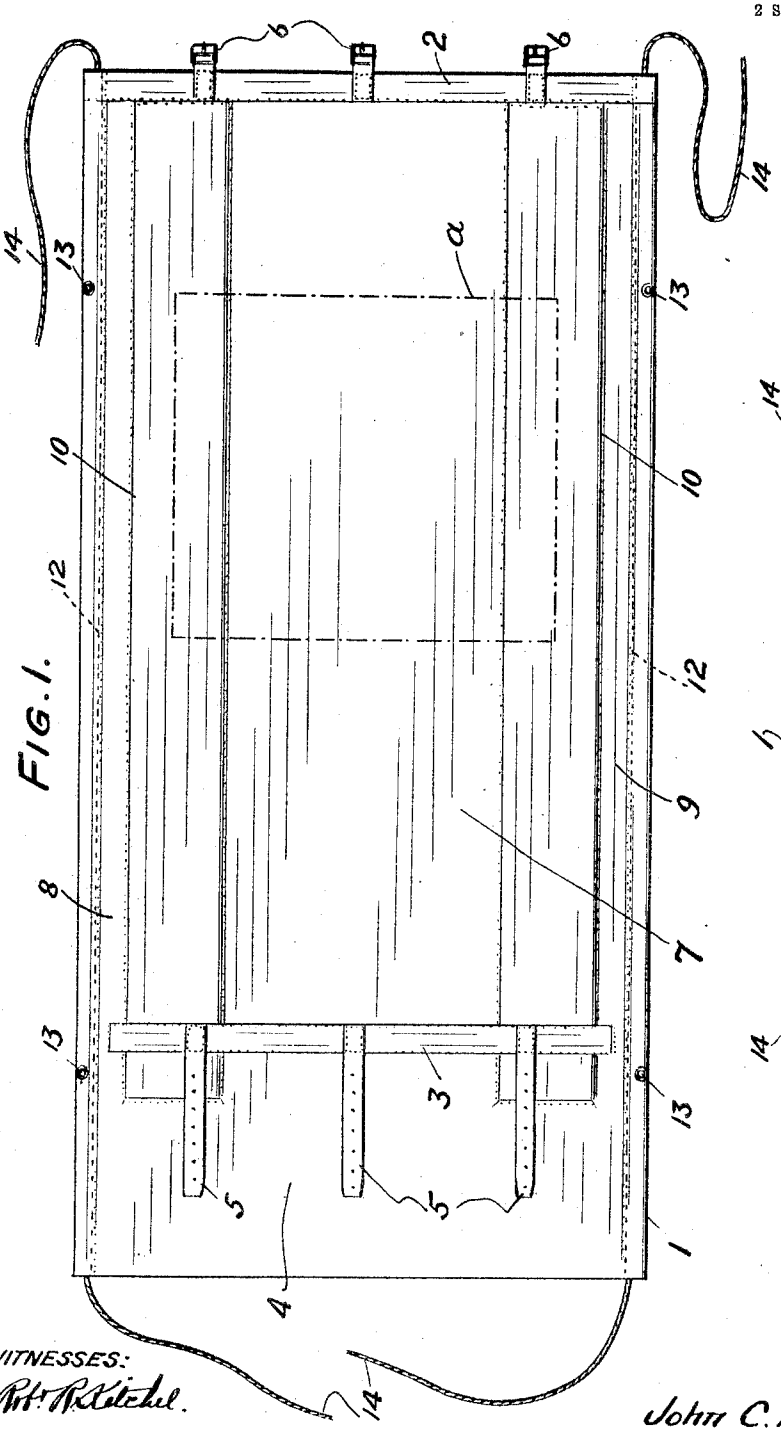


FIG. 1.

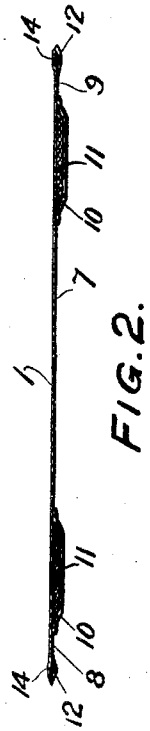


FIG. 2.

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2 SHEETS—SHEET 2.

FIG. 3.

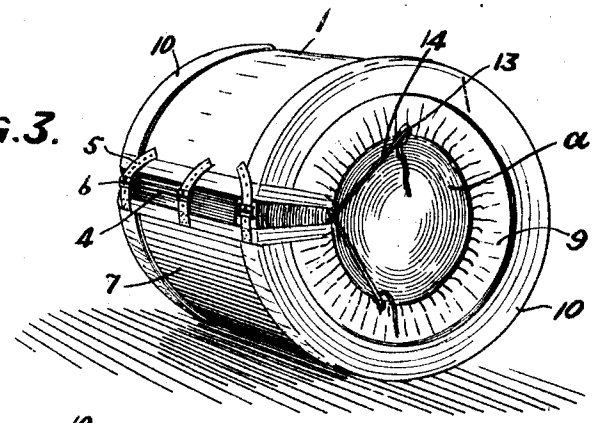


FIG. 4.

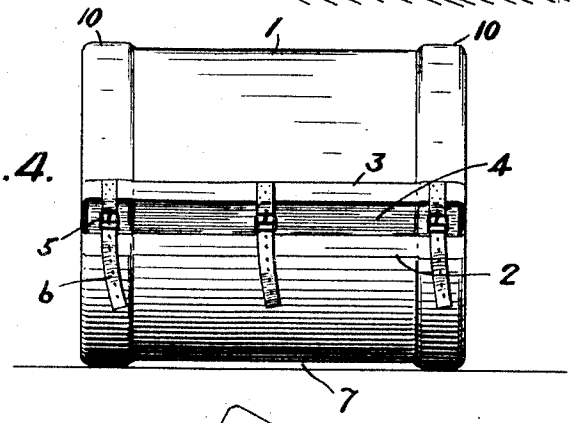
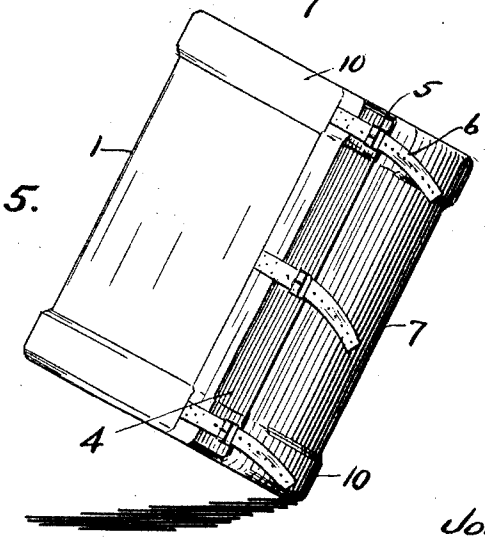


FIG. 5.



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JOHN C. MARTIN, OF WYNCOTE, PENNSYLVANIA, ASSIGNOR TO THE CURTIS PUBLISHING COMPANY, A CORPORATION OF PENNSYLVANIA.

DEVICE FOR SHIPPING ROLLS OF PAPER.

1,068,066. Specification of Letters Patent. Patented July 22, 1913.

Application filed January 7, 1913. Serial No. 740,589.

To all whom it may concern:

Be it known that I, JOHN C. MARTIN, a citizen of the United States, residing at Wyncote, Montgomery county, Pennsylvania, have invented a new and useful Device for Shipping Rolls of Paper, of which the following is a specification.

Paper is usually shipped from the paper mills to the publishers in large rolls and these are usually covered with a paper wrapper. This practice entails waste and loss both in transit and in handling at destination and is therefore expensive and wasteful. The paper with which the rolls are wrapped is expensive and when the rolls are opened is salable only as waste and at a considerable loss. In transit and in handling, if a roll of paper is dropped or otherwise jarred, either sidewise or endwise, the layers of the roll split from the edges toward the center of the sheet of paper and this is true more especially of the outside layers. In consequence of this and of the accuracy and refinement of modern printing and feeding machinery the paper has to be unwound from the roll so as to take off the part having split edges and this part is wasted. Moreover, when a roll of paper having the usual paper cover is rolled along the floor it feathers at its edges, that is, the paper especially at the outer turns or layers, slips a little endwise of the roll thus making the edges of the turns out of alinement or feathered, and before the paper can be fed to modern printing and feeding machinery the roll has to be unwound until the feathered edges are removed, and the paper so unwound is wasted.

The principal object of the present invention is to obviate these losses and to provide for shipping and handling rolls of paper in such a way that the outside paper covers are dispensed with and splitting and feathering of the paper at the ends of the roll are avoided even though the roll be subjected to such shocks and jars as are incidental to shipping and handling. According to the present invention these objects are attained by means of a canvas or like cover which may be capable of repeated re-use and which is provided with pads that cover the adjacent cylindrical and end surface parts of the roll and which constitute spaced projecting ribs.

The invention will be claimed at the end hereof but will be first described in connection with the embodiment of it chosen for illustration in the accompanying drawings in which—

Figure 1, is a top or plan view of the outside of a wrapper embodying features of the invention and showing in dotted lines the position of the roll of paper. Fig. 2, is a transverse sectional view of the wrapper shown in Fig. 1, taken at or near the middle thereof. Fig. 3, is a perspective view showing the wrapper applied to a roll of paper. Fig. 4, is a view illustrating the same and showing how the roll may travel or be rolled on the spaced projecting ribs, and Fig. 5, is a view showing how the pads which constitute the ribs cushion the roll and prevent splitting of the paper.

In the drawings 1, is a cover as of textile material, such as canvas.

2, is a reinforcement or reinforcing strip applied at one end of the cover, and 3, is a reinforcement or reinforcing strip applied near the other end of the cover so as to provide a flap 4, which may overlap when the cover is placed around a roll of paper. There are fastening devices 5 and 6, applied to the strips 2 and 3, and as shown, they comprise straps and buckles. They are arranged or spaced inward from the edges of the cover so as to provide a body portion 7, and flaps 8 and 9, for covering the ends of the roll.

10, are pockets applied to the cover and spaced inward from the edges thereof and extending between the strips 2 and 3, or the fastening devices. In these pockets 10, are pads 11, as of felt. The pockets themselves may be made of stronger material than the rest of the wrapper and they can be removed by ripping out their stitches or fastenings and replaced as by sewing on new ones when worn.

12, are marginal hems or pockets, and 13, are marginal gromets or eyes, and 14, are ropes or cords which run through these hems and can be secured or made fast to the gromets or eyes.

In use the described cover is put on outside of the roll of paper *a*. If desired, the latter may be inclosed in a very light or single sheet paper wrapping although this is unnecessary and is principally useful when the rolls are to be taken out of the covers and stored. The fastening devices

5 and 6, are properly connected with the flap 4, overlapping. The cords 14, are drawn tight and secured through the gromets. The result of this is that the pads overlie the corners of the roll and cover a part of the end surface and the adjacent part of the cylindrical surface. If the roll of paper thus inclosed in the described cover is dropped or subjected to shocks or jars these are cushioned by the pads and the paper of the roll is not split or damaged. If the roll of paper in the cover is to be rolled about, it travels on the spaced projecting pads and the edges of the roll are not feathered or disturbed. The cover itself can be applied to the roll at the paper mill and taken off at the destination and returned to the mill so that it can be repeatedly re-used.

It will be obvious to those skilled in the art to which the invention relates that modifications can be made in details of construction, arrangement and choice of materials, hence I do not limit myself in these matters in any way further than the state of the art may require, but

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

1. A wrapper for rolls of paper comprising the combination of a cover adapted to inclose the cylindrical and end parts of the roll, and projecting pads spaced apart and adapted only to cover the meeting faces of the cylindrical and end surfaces of the roll and to constitute a pair of projecting spaced ribs upon which the roll may travel.

2. A wrapper for rolls of paper comprising the combination of a canvas cover adapted to inclose the cylindrical and end parts of the roll, and projecting canvas covered pads spaced apart and adapted only to cover the meeting faces of the cylindrical and end surfaces of the roll and to constitute a pair of projecting spaced ribs upon which the roll may travel.

3. A wrapper for rolls of paper comprising the combination of a cover adapted to inclose the cylindrical and end parts of the roll, fastening devices for the ends of the cover, means for gathering the sides of the cover over the ends of the roll, and projecting pads spaced apart and adapted only to cover the corners of the roll and to constitute a pair of projecting spaced ribs upon which the roll may travel.

4. A wrapper for rolls of paper comprising the combination of a rectangular fabric having marginal pockets or hems and gromets or eyes, fastening devices applied at one end and spaced from the other end and margins to form an overlapping body portion and end flaps, cords in said pockets or hems for drawing the marginal flaps over the ends of the roll and for attachment to the gromets, and spaced pads at the unions of the body portion and marginal flaps and constituting projecting ribs.

5. A wrapper for rolls of paper comprising the combination of a rectangular cover, removable pockets spaced apart and inside of the edges of the cover, and pads in the pockets, substantially as described.

6. A wrapper for rolls of paper comprising the combination of a generally oblong rectangular textile cover, crosswise reinforcing strips applied at one end and near the other end of the cover to provide an overlapping end flap, fastening devices applied to said strips, removable pad pockets applied to said cover and spaced from the edges thereof and from each other and extending between said strips, pads in the pockets forming projecting ribs, marginal hems and gromets on the cover, and cords for coöperation with the hems and gromets, substantially as described.

In testimony whereof I have hereunto signed my name.

JOHN C. MARTIN.

Witnesses:
CLIFFORD K. CASSEL,
FRANK E. FRENCH.

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