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F. B. MILLER

1,971,322

ARTICLE CARRIER

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Fig. 1.

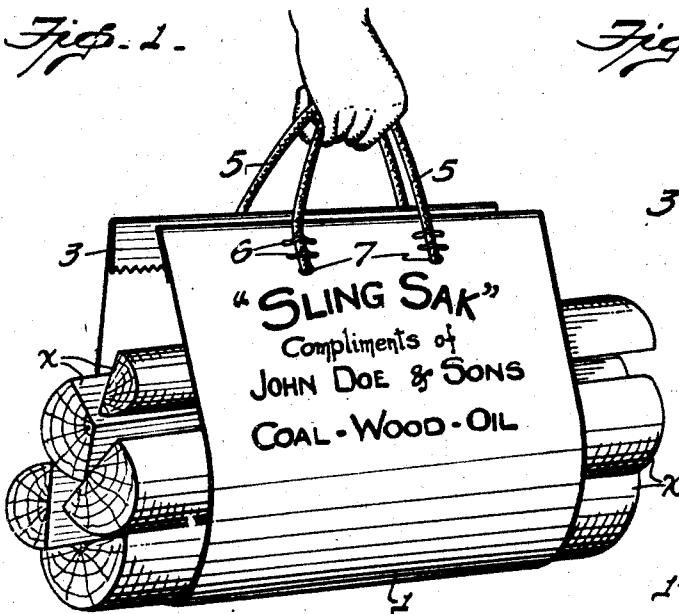


Fig. 2.

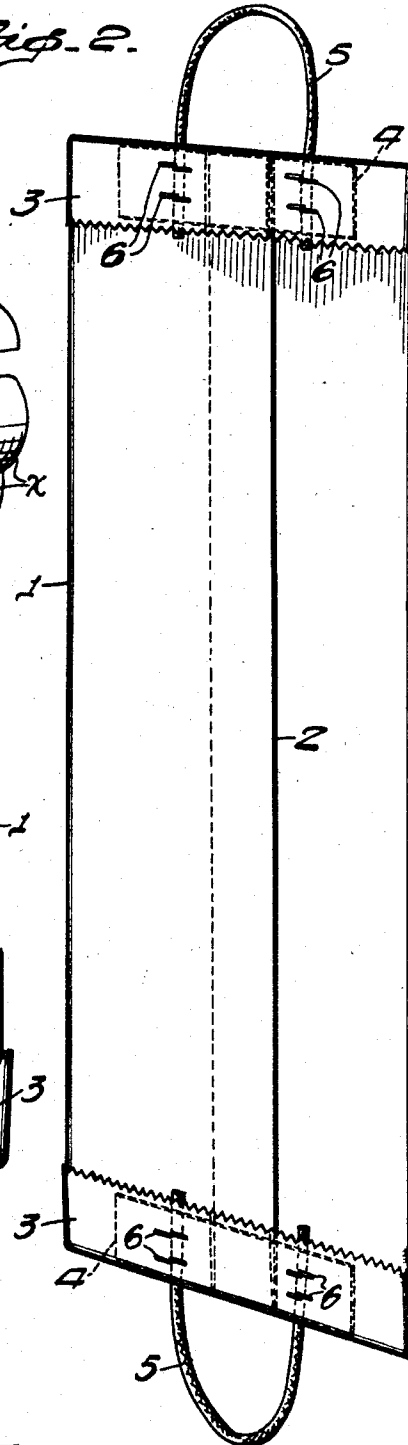


Fig. 3.

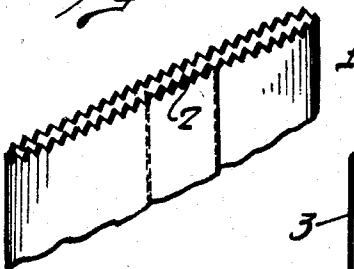


Fig. 4.

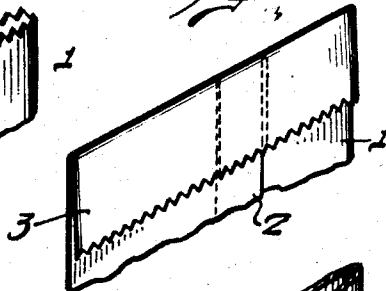
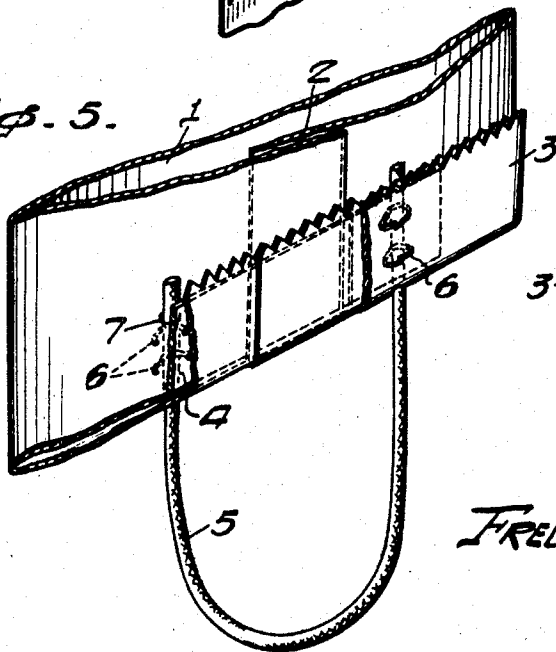


Fig. 5.



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ARTICLE CARRIER

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Application October 23, 1933, Serial No. 694,867

6 Claims. (Cl. 224-49)

The present invention relates to an article carrier, and more especially to a carrier for pieces or small logs of fire wood and the like, and the primary object of the invention is to provide a novel and improved carrier of this character which can be made at small cost from inexpensive material, preferably from paper, so that it may be furnished to users without cost, as an advertising medium, but which possesses ample strength to provide a durable carrier for relatively heavy material or articles and which may be handled with facility by the user.

In the accompanying drawing:—

Fig. 1 is a perspective view of an article carrier embodying the present invention, it being shown in use as a fire wood carrier;

Fig. 2 is a perspective view of the carrier in its straight or unfolded form;

Fig. 3 is a detail perspective view of one end of the tube from which the carrier is made;

Fig. 4 is a detail perspective view of one end of the tube of the carrier after being folded; and

Fig. 5 is a detail perspective view, partly in section, of an end of the carrier, illustrating the construction thereof and the manner of fastening the respective handle thereto.

Similar parts are designated by the same reference characters in the several figures.

The article carrier, according to the present invention, comprises a flattened tube 1, composed of flexible material, preferably paper of suitable strength or toughness, such as strong and tough fiber paper commonly used in making paper bags, and this tube may be manufactured inexpensively and with facility on an ordinary bag making machine in the same manner in which the ordinary bag tube is formed on such machine, and cut off into sections of appropriate length by the cut-off device commonly used in such machines. Preferably, the tube is made of a strip of paper of a width which, when folded longitudinally, will overlap at its longitudinal edges which are pasted to form a longitudinal seam 2 at one side of the tube, the other side of the tube being free from seams so that any desired advertising or other matter may be effectively printed thereon by ordinary bag printing means, either before the sheet is formed into the tube or after the tube has been formed.

The flat tube is folded over transversely at each end to form folded end flaps 3, a strip of cardboard or other relatively tough and stiff material 4 is inserted between each folded end flap and the body of the tube, and a handle 5, composed preferably of flexible material such as cord, is

firmly secured to each end of the carrier preferably by wire staples 6 which extend through the respective folded flap 3, reinforcing strip 4 and the body of the tube and embrace and firmly clamp the ends of the respective handle. Preferably, perforations 7 are punched or otherwise formed through the body of the tube adjacent to its ends, and the ends of each handle are inserted through these perforations from the outer or unseamed side of the tube and into positions between the inner or seamed side of the tube and the respective reinforcing strip 4, so that the extremities of the handles will be concealed at the inner side of the carrier, mainly beneath the respective folded flaps 3, and the outer side of the carrier will present a neat appearance.

The completed carrier comprises the tube of appropriate length having the handles projecting from its opposite ends and stapled or otherwise firmly secured to the folded ends thereof. To further increase the strength of the ends of the carrier and the security of the fastening of the handles thereto and thus increase the carrying capacity of the carrier, each cardboard or other suitable reinforcing strip 4 is preferably pasted between the respective folded flap 3 and the adjacent body portion of the tube, this being readily accomplished by applying paste to these cardboard or reinforcing strips before they are inserted beneath the folded end flaps, such strong attachment of the reinforcing strips to the carrier and the stapling of the ends of the respective handle thereto effectively preventing detachment or pulling out of the handle ends under heavy loads in the carrier.

The carriers while in straight form, as shown in Figure 2, may be stacked compactly for storage or shipment. The carrier is used by placing it in extended form on any suitable support with its seamed side uppermost, then placing the articles to be carried, such as pieces or small logs of fire wood x upon the carrier near the center of its length, and then grasping the handles 5 and lifting them upwardly, the carrier then bending into the form of a sling around the articles or pieces to be carried so that the latter may be carried by the hand of the user, grasping the handles as shown in Figure 1, the pressure of the sides of the carrier against the articles therein holding them frictionally from sliding out of the carrier.

By making the carrier of paper it may be manufactured very inexpensively and hence may be used very effectively as an advertising medium, the outer unseamed side of the carrier providing a smooth continuous surface upon which any

desired advertising or other matter may be printed, as shown in Figure 1. By making the carrier from a flat tube of paper, it may not only be manufactured inexpensively and with facility on an ordinary bag making machine, but the double thickness thus obtained affords greatly increased tensile strength for the carrier and the longitudinal folds along the edges of the tube afford greatly increased resistance against tearing, as compared with a strip or sheet of single thickness. The body of the carrier thus possesses ample strength for the carrying of heavy articles or material and the requisite durability for repeated use, and the secure fastening of the handles to the folded and reinforced ends of the carrier effectively prevents pulling out or detachment of the handles therefrom when carrying heavy loads.

I claim as my invention:—

20 1. A carrier of the class described comprising a flattened paper tube having folds along its longitudinal edges, and handles attached to its opposite ends.

25 2. A carrier of the class described comprising a flattened tube of flexible material having folds along its longitudinal edges and having its ends folded upon its body portion, and handles secured to the folded ends of the tube.

30 3. A carrier of the class described comprising a flattened paper tube having folds along its longitudinal edges and having its ends folded upon its body portion, reinforcing pieces between said

folded portions and the body portion of the tube, and handles secured to the folded and reinforced ends of the tube.

4. A carrier of the class described comprising a flattened paper tube having its ends folded upon its body portion, reinforcing pieces pasted between said folded portions and the body portions of the tube, and handles stapled to the folded ends and to both sides of the adjacent portions of the body of the tube and to the respective reinforcing pieces. 80 85

5. A carrier of the class described comprising a flattened paper tube having its ends folded upon its body portion, reinforcing pieces between the folded portions of said ends and the body portion of the tube, cord handles each having its ends inserted between the body portion and the respective reinforcing piece, and staples passing through both sides of the body portion and the respective folded portions and reinforcing and securing the respective handles to the tube. 90 95

6. A carrier of the class described comprising a flat flexible paper tube bendable into the form of a sling and composed of a body folded along its longitudinal edges and having a longitudinal seam at one side thereof, the other side of the body being seamless, each end of said body being folded, a reinforcing piece under each of said end folds, and a flexible handle stapled to each end fold and reinforcing piece and to both sides of the adjacent portion of the body of the tube. 100 105

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