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PAPER BAG HOLDER

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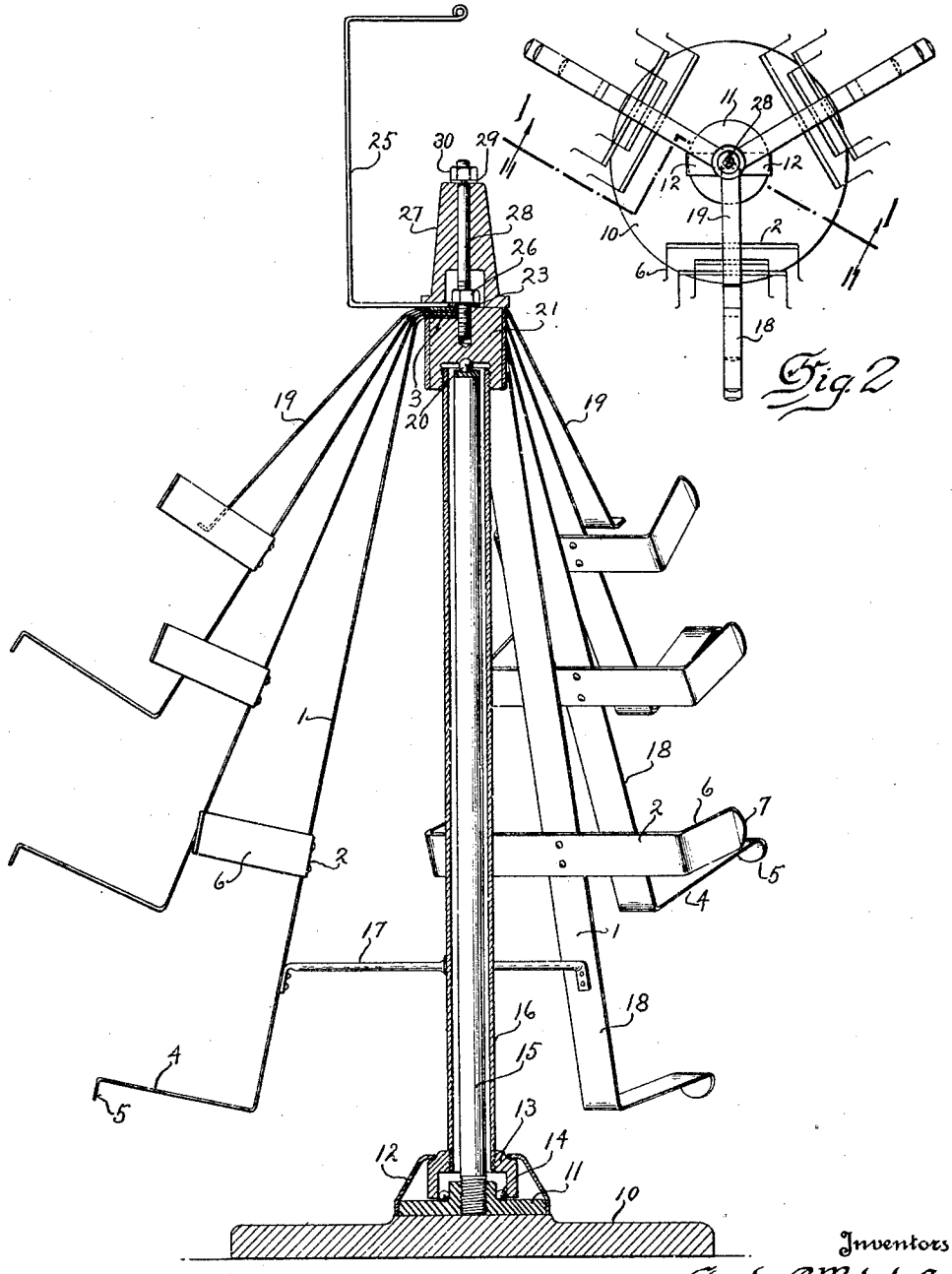


Fig. 1

Fig. 2

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PAPER-BAG HOLDER.

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This invention relates to paper bag and twine holders and more specifically to a combination paper bag and twine holder for use in all varieties of mercantile establishments where paper bags are used as containers for general merchandise and twine is used to secure the wrappings of packages.

Among the objects of the invention is a paper bag holder that is compact and sturdy in design and constructed such that the individual holders for each size of bag are built in tiers.

Another object is a holder in which the bags in any of the individual holders are held firmly in place by the combined weight of the bags and spring in the steel of the holder above, or in case of the top holder by the spring in the steel of the clip.

Another object is a paper bag holder made up in tiers, such that the bottom holder in each tier contains the largest size bags, each holder decreasing in size as the vertical or upward progression continues, the number of holders in each tier varying with the number of different sizes of bags required.

Another object is a paper bag holder rotatable about a vertical axis with the individual bag holders suspended in tiers from the top of the contrivance and the whole occupying a minimum of space.

Another object is a bag holder that will hold a sufficient number of bags, and will release one or more bags at the will of the operator in one operation at the minimum exertion without tearing or otherwise mutilating the bags.

Still another object is a bag holder having a twine holder attached to the top thereof and revolving therewith and of simple construction and ease of operation.

Other objects will readily occur to those skilled in the art upon reference to the following description and drawing in which;

Fig. 1 is a vertical section through the holder on line 1—1 of Fig. 2 with parts shown in elevation.

Fig. 2 is a top view on a somewhat smaller scale.

As indicated in the drawings, the holder consists of a base 10 upon which is rigidly fastened, preferably by screws, a metal base and inner race 11 for ball bearings. A rigid supporting shaft 15, preferably an iron rod cupped at the top and threaded at the bottom as illustrated, is screwed into the metal base 11. Preferably a ball bearing 20 is used as a pivot between the supporting shaft 15 and a cap 21. This ball 20 is supported by the shaft 15 in its concave or cupped end and in turn supports the cap 21 by fitting into a socket. Cap 21 revolves horizontally on the ball 20 and is maintained in position by being screwed upon a hollow cylindrical shaft 16 enclosing the supporting shaft 15 and having a hub, or housing 13, forming the outer race for ball bearings 14 which hub is securely fastened to the bottom of the hollow cylindrical shaft 16. The cap 21, the casing 16 and the hub or housing 13 are held in place by a spring clip 12 which is secured to the base 10 and metal base 11. The cap 21 consists of a metal block drilled and tapped and provided with a socket on one end for shaft 16. The top end is fitted with four tapped holes, the hole at the center being tapped for the bolt 28 while the remaining three holes are spaced about the center each preferably tapped to receive a locating peg (not shown).

The bag holders 18 each consists of two thin strips 1 and 2 of a spring material, preferably steel, bent, crossed and fastened together as by riveting in such manner as to hold a quantity of paper bags. The strip 1 is made in various lengths depending on the length of the bags and is bent on one end as at 3 where it is punched to fit over the locating peg in the cap 21. The bottom end is bent and shaped as at 4 and 5, the length 4 depending on the quantity of bags to be held. The dimension of 5 depending upon the size of numbering desired to show the size of the bags in each particular holder. The cross strip 2 is bent at both ends forming sides 6, the distance between them depending on the width of the bags. The bent ends 7 are for the purpose of preventing the bags from being mutilated while being placed into or removed from holders. The length of the bent ends 6 depends on the quantity of bags, and its position on strip 1 depends on the length of the bags. In other words, strip 1 holds the bags and strip 2 acts as a guide and prevents side movement of the bags.

The top clip 19 is likewise a thin strip of spring material, preferably steel, and is used to keep the bags in each top holder of each tier compactly in place. This clip is bent slightly a short distance from one end and

provided with a hole to slip over the locating peg the other end being rolled to prevent tearing of the bags.

The individual bag holders 18 are grouped in tiers, the smaller sizes being uppermost in the series and arranged upon cap 21 so that the total weight of tiers of bags is evenly distributed around the supporting shaft 15. The individual bag holders 18 and clip 19 are suspended from the cap 21 by being dropped over the locating pegs and are clamped securely in place by the washer 23 and nut 26 on bolt 28. The bolt 28 as illustrated is screwed into the top of cap 21.

The brace 17 may be fastened securely to the bottom bag holder of each tier and securely clamped to the cylindrical shaft or casing 16 in any suitable manner.

The twine guide 25 is preferably a metal rod bent and looped at both ends and is held in place by the bolt 28 passing through bottom loop under nut 26. The top loop is used as a means of guiding the twine.

The cone 27 passes over bolt 28 and is held securely in place by lock washer 29 and nut 30.

The bag holder constructed as indicated when filled with paper bags resembles in appearance a pyramid having as many sides as there are tiers of bags. In the construction shown and described three tiers are indicated but it should be understood that a greater or less number could readily be used with minor modification of the rest of the device.

Having now described the invention and the preferred form of embodiment thereof, it is to be understood that said invention is not limited to the precise details shown and described but only by the scope of the claims which follow.

We claim:—

1. In a combined bag and twine holder, a vertical shaft fixed to a base member, a cap rotatable thereon, and means on said cap for securing thereto a plurality of holders for bags said means forming a support for twine.

2. In a combined bag and twine holder, a vertical shaft fixed to a base member, a cap rotatable thereon, a hollow shaft secured to said cap and enclosing said vertical shaft to prevent lateral displacement of the cap, means to prevent vertical displacement of said cap and hollow shaft, and means on said cap for securing thereto a plurality of holders for bags and formed to constitute a support for twine.

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