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R. V. JONES

2,593,762

PAPER HOLDER

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FIG. 1.

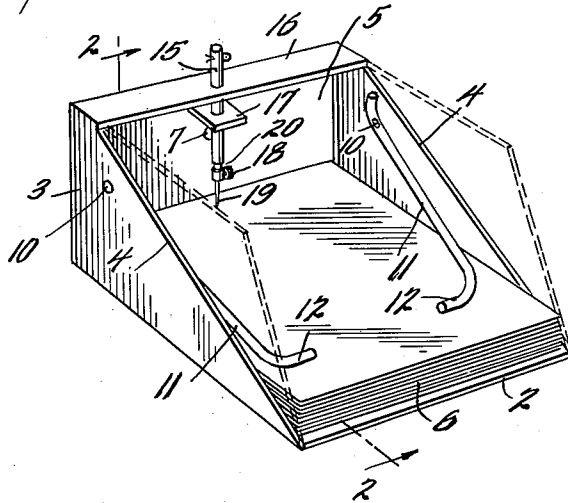


FIG. 2.

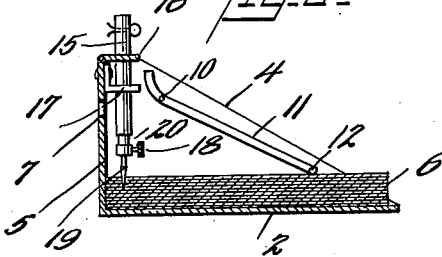


FIG. 3.

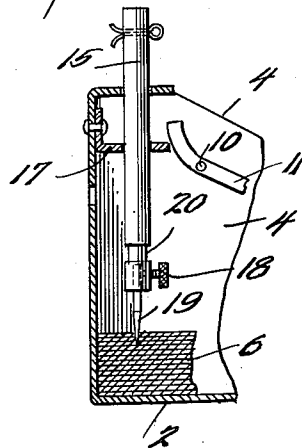


FIG. 4.

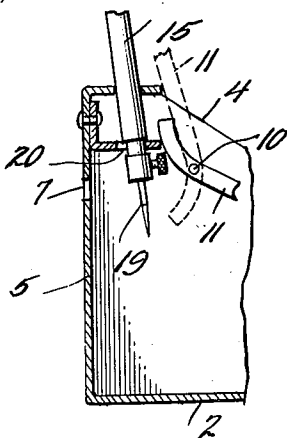
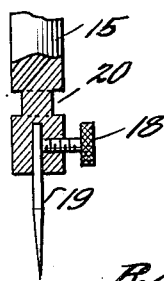


FIG. 5.



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UNITED STATES PATENT OFFICE

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PAPER HOLDER

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2 Claims. (Cl. 206-74)

1

This invention relates to paper holders, and more particularly to a holder for a stack of precut sheets of tissue paper such as are used for wrapping individual pieces of fruits, vegetables, etc. preparatory to packing the same in shipping containers.

The invention resides in the provision of a holder which may be used in the orchard or other field locality where the articles to be wrapped are harvested so that said articles may have the protective paper wrapper applied thereto at the earliest possible time after the articles are plucked.

Therefore an object of the invention is to provide a transportable paper holder which may be moved from place to place as the harvesting proceeds.

Another object of the invention lies in providing a holder with an open top and front for rapid insertion of a stack of precut sheets of paper.

A further object resides in the provision of a gravity actuated needle-like impaler for securing the stack of paper sheets against lateral displacement within the holder, said impaler penetrating at any one time only a very few of the uppermost sheets adjacent the rear edge of the stack, wherefore a minimum of tearing is made possible as the sheets are withdrawn from the stack for use.

A still further object of the invention lies in the provision of a pivoted member serving as a weight and exerting its force on the stack of sheets adjacent the forward edge thereof whereby to maintain the sheets in horizontal position for ready extraction at the time of their use, this being desirable as and when there is a movement of air sufficient to ruffle or raise the upper sheets in the stack.

Other objects and advantages of the invention will be apparent from the following description of the preferred form of holder construction particularly illustrated in the drawings, it being understood that variations of said construction are possible within the scope of the invention.

Referring to the accompanying drawings forming a part of this specification, and in which like numerals designate like parts in all of the views,

Fig. 1 is a perspective view of a holder made in accordance with this invention;

Fig. 2 is a vertical sectional view of the holder, said view being taken as on the line 2-2 of Fig. 1 and looking in the direction of the arrows;

Fig. 3 is an enlarged partial vertical sectional

2

view, similar to Fig. 2, showing to better advantage the slidable mounting of the impaler;

Fig. 4 is a detail sectional view illustrating the impaler held in suspended or raised position as when a stack of paper sheets is to be loaded into the holder; and

Fig. 5 is a detail view, partly in section, illustrating the construction of the lower end of the impaler.

The holder is a box-like receptacle comprising a floor 2, two parallel spaced side walls 3 and 4 rising therefrom, and a rear wall 5 connecting said side walls, leaving entirely open the top and front of the holder. The upper edge of each side wall may be formed as desired, there being shown in Fig. 1 a long oblique formation in full lines, and there being indicated in dotted lines a formation more parallel to the floor with only the front edge portion made oblique. The vertical walls may be of sheet metal or other thin material, and the floor may be of any suitable thickness and material to give the requisite stability to the holder, the general dimensions of the holder being in accordance with the size and quantity of the paper sheets (indicated by the numeral 6) to be stacked therein. The holder may be hung or otherwise supported in any suitable and desired manner, there being illustrated for example only a hole 7 in the upper portion of the rear wall for engagement with a fixed nail or other member upon which the holder may be hung quickly and readily.

In the region of the upper rear corner of each side wall there is provided a pivotal mounting, such as indicated by the numeral 10, for one end of an arm 11 of a length sufficient to extend forwardly to the region of the front edges of the stack of sheets. The forward end such as 12 of each arm is preferably slightly turned as shown and is suitably formed for smooth and relative sliding contact with the uppermost sheet of the stack. These arms are preferably of metal and/or are of sufficient weight to hold down the uppermost sheets of the stack, and thus prevent air currents from ruffling or raising said sheets when the holder is used outdoors. By their pivoted mounting, said arms are capable of automatically maintaining contact with the uppermost sheet of the stack regardless of how many sheets have been previously abstracted.

Suitable means are provided on the rear wall for slidably supporting a vertical impaler generally identified by the numeral 15. One such means is illustrated as comprising a forwardly extending flange 16 formed at the upper portion

3

of the rear wall, and a bracket 17 rigidly secured centrally of said rear wall below said flange. Said flange is apertured to slidably receive the impaler 15. The lower bracket 17 has its forwardly extending flange portion likewise apertured to slidably receive said impaler, both flanges being spaced apart to suitably guide said impaler, the apertures of both flanges being in registration with each other to maintain the impaler vertically.

The impaler comprises preferably a round metallic rod, in the lower end of which is inset (and secured as by the set-screw 18) a needle-like prick 19 the sharpened end of which will readily penetrate (due to the weight of the rod) only the uppermost few of the sheets of the stack, this slight penetration in conjunction with the weight of the arms such as 11 being sufficient to maintain all of the sheets in stack formation. The prick 19 is coaxial with the impaler rod 15. Just above the set-screw 18, said rod is provided with a circumferential groove 20 preferably having square shoulders which (upon canting or tilting said rod) are engageable with the edge of the aperture in the flange of the lower bracket 17, whereby said rod may be supported in elevated position when a stack of paper sheets is inserted or loaded in the holder (see Fig. 4). This impaler thus differs from heretofore known structures which have to be pushed or driven through an entire stack of sheets, in that the prick 19 is of very small diameter and very sharp, and by the weight of the impaler alone will automatically penetrate the few uppermost sheets of tissue paper and thus hold the entire stack in the holder. Also, said prick engages the sheets closely adjacent the rear edges thereof so that the slight forward pull required to abstract the uppermost sheet will cause the minimum of tear of said sheet thereby substantially causing no impairment of the sheet next below.

To aid in keeping the intumed lower and forward end 12 of the arm 11 in flat contact with the uppermost sheet of the stack, the opposite or upper end of the arm may be bent as shown to contactingly engage the inner surface of its associated side wall such as 4, and thereby prevent a lateral rocking movement of said arm about its pivotal support. The arm is pivoted at a point such that, when the arm is raised for insertion of a new stack of sheets, said arm will pass the vertical plane passing through the axis of the pivot and come to rest against the edge of the upper flange 16 (see Fig. 4) and thus be maintained in its raised position so as to leave the hands of the operator free for loading the new stack.

It is obvious that those skilled in the art may

4

vary the details of construction and arrangements of parts without departing from the spirit of this invention wherefore it is desired not to be limited to the exact foregoing disclosure except as may be required by the claims.

What is claimed is,

1. A holder for a stack of paper sheets, comprising a floor for supporting the stack, a wall rising from said floor, said wall adapted to retain the stack of sheets in substantially edgewise superposed alignment with each other, said wall having a flange provided with an aperture, and means responsive solely to the urge of gravity for retaining the stack of sheets in the holder until individually and successively abstracted therefrom, said means comprising an impaler operative only upon the uppermost few sheets of the stack adjacent the rear edge thereof, said impaler slidably supported within the aperture of the flange of said wall, said impaler having a groove formed in the side thereof, said groove being cooperative with the edge of the aperture of said flange for retaining the impaler in elevated position while loading the holder with a stack of sheets.

2. A holder for a stack of paper sheets, comprising a floor for supporting the stack, a wall rising from said floor, said wall adapted to retain the stack of sheets in substantially edgewise superposed alignment with each other, said wall having a flange provided with an aperture, and means responsive solely to the urge of gravity for retaining the stack of sheets in the holder until individually and successively abstracted therefrom, said means comprising an impaler operative only upon the uppermost few sheets of the stack adjacent to the rear edge thereof, said impaler slidably supported within the aperture of the flange of said wall, and interlocking means between the lower end of said rod and the bracket cooperating when the rod is raised a predetermined distance therein to hold said rod in elevated position above said sheets.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
743,609	Young	Nov. 10, 1903
844,339	Ellett et al.	Feb. 19, 1907
929,016	Rensch	July 27, 1909
986,075	Menighan	Mar. 7, 1911
1,908,345	Hamer	May 9, 1933
2,443,520	Schwartz et al.	June 15, 1948