March 4, 1941. J. J. BRITTON 2,233,730

DEVICE FOR HOLDING PAPER

Filed May 22, 1940 4 Sheets-Sheet 1

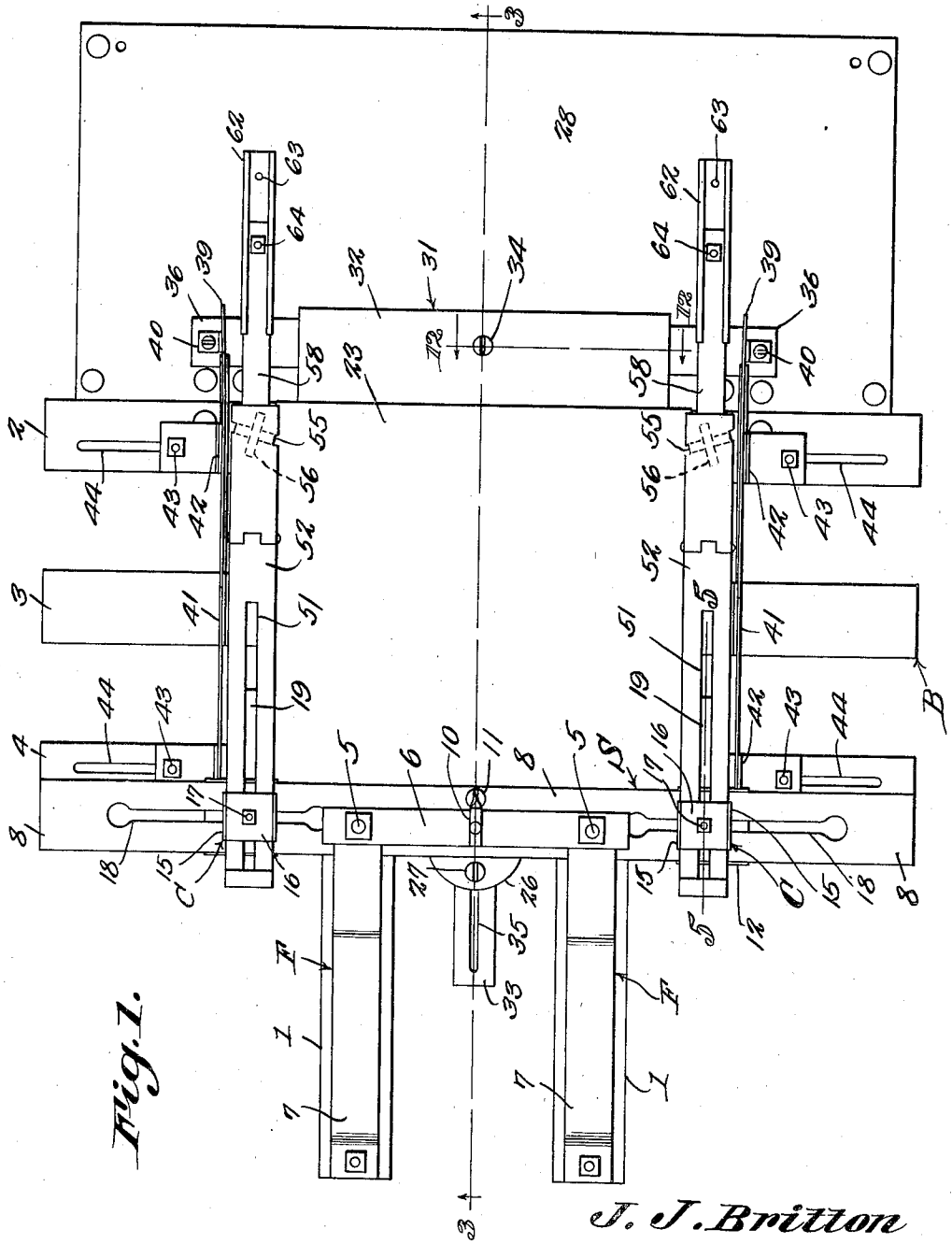


Fig. 1.

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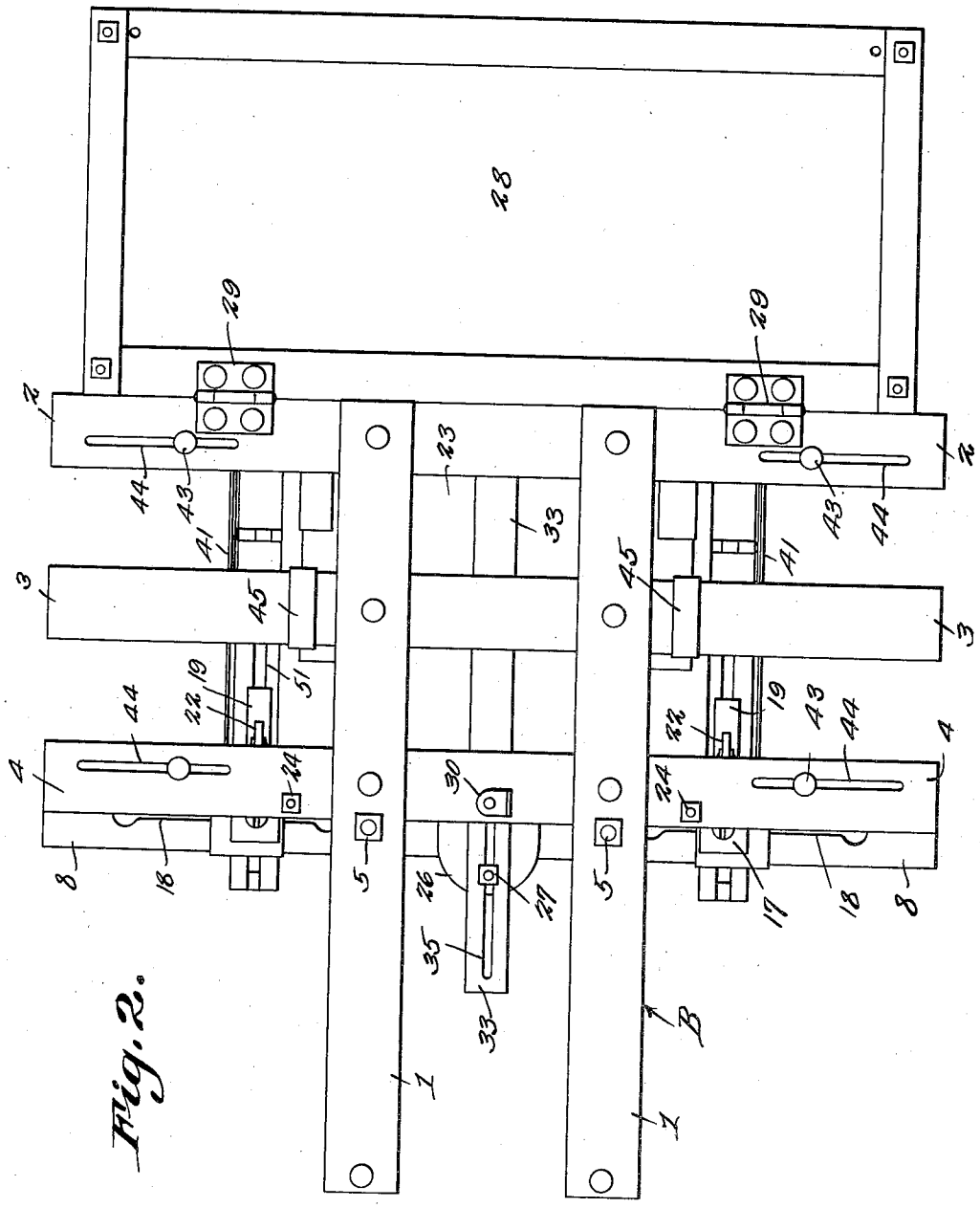


Fig. 2.

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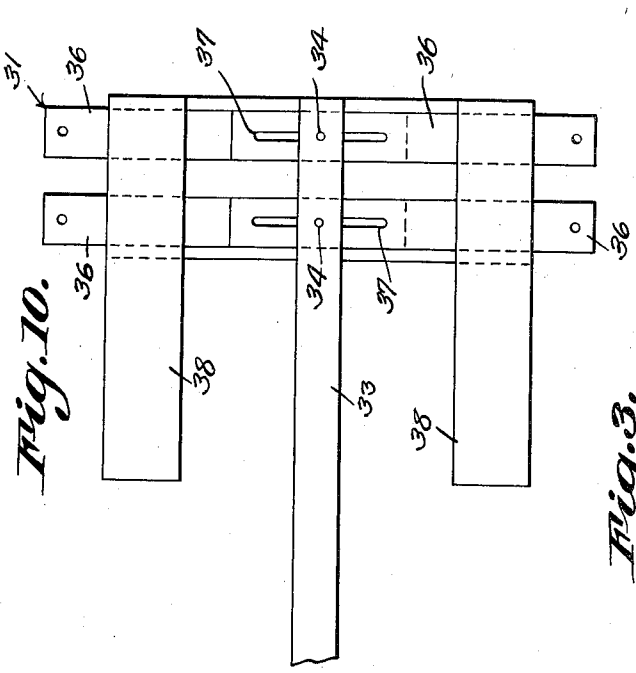


Fig. 10.

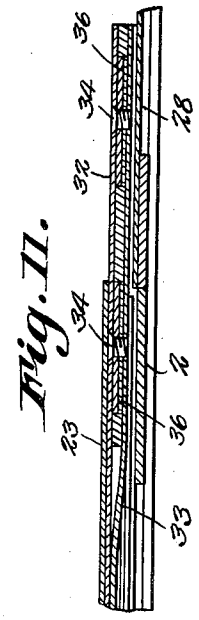


Fig. 11.

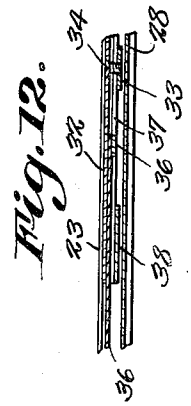


Fig. 12.

Fig. 3.

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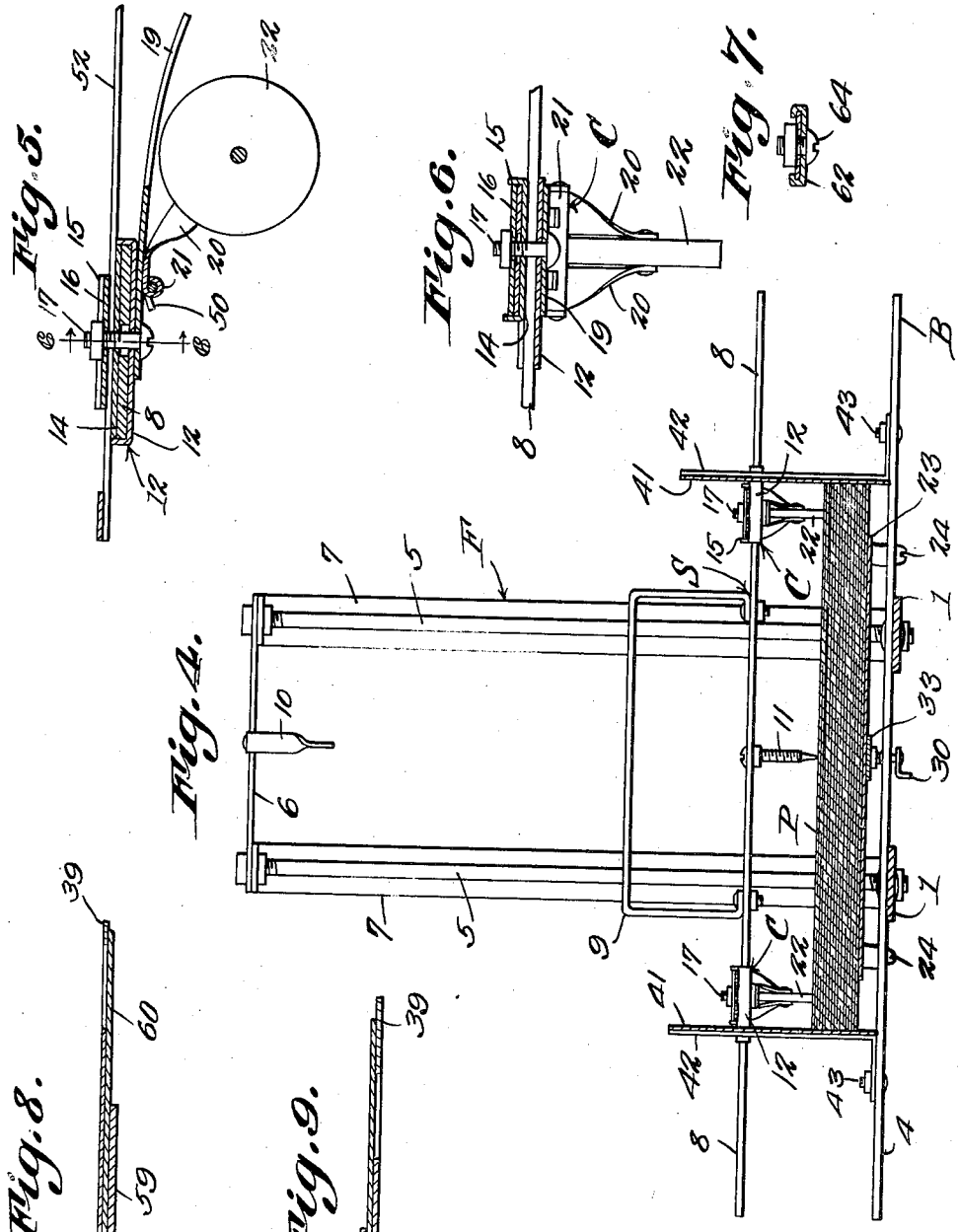
BY Albert & Co.

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DEVICE FOR HOLDING PAPER

Filed May 22, 1940 4 Sheets-Sheet 4



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Patented Mar. 4, 1941

2,233,730

UNITED STATES PATENT OFFICE

2,233,730

DEVICE FOR HOLDING PAPER

James J. Britton, Fort Myers, Fla., assignor of one-fourth to I. A. Carroll, Lakeland, Fla.

Application May 22, 1940, Serial No. 336,630

5 Claims. (Cl. 271—61)

This invention aims to provide a novel means for retaining a stack of paper of the kind in which fruit is wrapped, it being possible to advance sheet after sheet of the paper, as it is needed for wrapping purposes. Another object of the invention is so to house and hold down the paper that it will not be blown about, the paper always being flat and ready for use. Another object of the invention is so to construct the machine that it will handle wrapping paper of different widths and lengths.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:

Fig. 1 shows in top plan, a device constructed in accordance with the invention;

Fig. 2 is a bottom plan;

Fig. 3 is a section on the line 3—3 of Fig. 1;

Fig. 4 is a section on the line 4—4 of Fig. 3;

Fig. 5 is a section on the line 5—5 of Fig. 1;

Fig. 6 is a section on the line 6—6 of Fig. 5;

Fig. 7 is a section on the line 7—7 of Fig. 3;

Fig. 8 is a section on the line 8—8 of Fig. 3;

Fig. 9 is a section on the line 9—9 of Fig. 3;

Fig. 10 is a bottom plan of the auxiliary table, parts being broken away;

Fig. 11 is a detailed sectional view enlarged from Fig. 3;

Fig. 12 is a section on the line 12—12 of Fig. 1.

In carrying out the invention, there is provided a base B, best shown in Fig. 2, and comprising longitudinal strips 1, a front cross strip 2, an intermediate cross strip 3, and a rear cross strip 4, the strips 1 being connected to the strips 2, 3 and 4, at their places of crossing.

An upright frame F is provided, and includes vertical posts 5, having their lower ends anchored in the longitudinal strips 1 of the base B, as indicated in Fig. 3. At their upper ends the posts 5 of the frame F are connected by a cross bar 6, shown in Fig. 4.

Inclined braces 7 (Fig. 3) extend between the upper ends of the posts 5 and the longitudinal strips 1 of the base B. A paper-retaining slide S, shown in Fig. 4, is supplied, and includes a cross piece 8, provided with an upstanding, bail-shaped handle and keeper 9, both the cross piece and the handle being mounted for vertical sliding adjustment on the posts 5 of the frame F.

The part 9 is called a handle because an operator can use it to raise the paper-retaining slide S to an inoperative position, and the part 9 is called a keeper, because it is adapted to be engaged by a latch 10, on the cross bar 6, to hold the slide S elevated. As depicted in Fig. 4, the cross piece 8 of the slide S carries a vertically adjustable needle 11, adapted to hold the uppermost sheet of wrapping paper P on a table 23 appearing in plan in Fig. 1.

Referring to Figs. 4 and 2, it will be noted that the rear part of the table 23 is connected to the cross strip 4 of the base B by securing devices 24. On its rear edge (Fig. 2) the table 23 has a rearwardly projecting flange 26, wherein a clamp bolt 27 is mounted.

A supplemental table 28 (Figs. 2 and 3) is supplied, and is connected to the front cross strip 2 of the base B by hinges 29, for downward and backward swinging movement at the will of an operator. The supplemental table 28 is disposed in the horizontal position shown in the drawings when the wrapping paper P is of maximum length. When the supplemental table 28 is not in use, it is turned back on the hinges 29 and is held in place by a retaining device 30, mounted on the rear cross strip 4 of the base B, and shown in Figs. 4 and 2.

Under ordinary conditions, the paper P on the fixed table 23 is pulled forward on an auxiliary table 31, detailed in Fig. 10. The auxiliary table 31 includes a plate 32, to which a rearwardly prolonged tongue 33 is connected by clamping devices 34. The tongue 33 extends backwardly beneath the fixed table 23, and, at its rear end, is provided with an elongated slot 35 (Fig. 1) receiving the clamp bolt 27 in the flange 26 of the table 23, the construction being such that the auxiliary table 31 can be adjusted backwardly or forwardly, with respect to the forward edge of the fixed table 23, to accommodate paper of different lengths.

It appears in Fig. 10 that cross rails 36 are disposed beneath the plate 32 and have their inner ends overlapped, the inner portions of the cross rails being supplied with elongated slots 37, through which the clamping devices 34 in the plate 32 and in the tongue 33 pass. The cross rails 36 can be adjusted in and out, transversely

of the table 31, owing to the provision of the slots 37 and the clamping devices 34.

Rearwardly extended arms 38 are secured to the plate 32 of the auxiliary table 31, and are mounted for sliding movement, beneath the fixed table 23.

Upright forward wind guards 39 are attached at 40 to the ends of the laterally adjustable cross rails 36 of the auxiliary table 31. The construction is such that when the auxiliary table 31 is expanded or contracted transversely, to accommodate paper of different widths, the forward wind guards 39 will be correspondingly adjusted.

The forward wind guards 39 cooperate with rear wind guards 41, secured to angle member posts 42 (Fig. 4), the feet of the posts 42 being equipped with clamping bolts 43, mounted for in and out adjustment, transversely of the machine, in elongated slots 44, formed in the rear cross strip 4 of the base, and in the forward cross strip 2 thereof. It appears in Fig. 3, that the rear wind guards 41 have forwardly extended fingers 60, which overlap the inner surfaces of the forward wind guards 39, to study and sustain them.

Owing to the provision of the slots 44 and associated parts, the rear wind guards 41 can be adjusted in and out, transversely of the machine, to accommodate paper of different widths, when the forward wind guards 39 are correspondingly adjusted. The wrapping paper P is thin, and it is in order to prevent the paper from blowing about or becoming rumpled on the stack, that the wind guards 39 and 41 are supplied. In connection with Figs. 3 and 2, it will be observed that the forward portions of the wind guards 41 carry upright strips 59, having eyes 45 (Fig. 2) receiving the intermediate strip 3 of the base B and aiding in sustaining the wind guards 41 in a vertical position, for in and out movement.

Carriages C (Fig. 1) are mounted on the cross piece 8 of the paper holding slide S, for adjustment transversely of the machine, one of the carriages being detailed in Figs. 5 and 6. Each carriage C includes a trough-shaped base 12, between the upstanding flanges of which, the cross piece 8 is closely received. Disposed on top of the cross piece 8, and fitting between the upstanding flanges of the base 12 is a trough-shaped guide 14, having upstanding flanges 15. A rectangular washer 16 is held against rotation between the flanges 15 of the guide 14.

A clamp bolt 17 passes through the base 12, the cross piece 8, the bottom of the guide 14 and the washer 16. The clamp bolts 17 pass through forwardly presented guards 19, which overhang wheels 22, adapted to rest on the stack of paper P. The wheels 22 turn on hangers 20, hinged at 21 to the guards 19, and supplied with rearwardly extended fingers 50, which, engaging the rear portions of the guards 19, limit the downward swinging movement of the hangers 20 and the wheels 22.

The bolts 17 pass through elongated slots 18 (Fig. 1) formed in the cross piece 8 of the paper holding slide S, and located near to the outer ends of the cross piece. The bolts 17 pass through elongated slots 51 (Fig. 1) formed in forwardly presented and approximately horizontal arms 52 (Fig. 3), the arms 52 (Fig. 5) being received between the upstanding flanges 15 of the guide 14, and between the bottom of the guide and the washer 16. Reverting to Fig. 1, it will be clear that the arms 52 can be adjusted lengthwise of the machine, as the length of the paper may demand.

Angle brackets 53 (Fig. 3) are hinged at 54 to the forward ends of the arms 52, for up and down swinging movement. Near to their forward ends, the brackets 53 are supplied with depending hangers 55, whereon wheels 56 are mounted to turn. The wheels 56 are adapted to ride on the stack of paper P, and in order to keep the paper in better condition, as it is drawn forward, sheet by sheet, the wheels have an inclination toward the longitudinal center of the machine, as will be manifest when Fig. 1 of the drawings is noted.

Vertically movable paper holders are provided, and include members 58 (Figs. 1 and 3), hinged at 61 to the forward ends of the brackets 53. Extensions 62 (Figs. 1, 3 and 7) are mounted for reciprocatory adjustment on the members 58. The extensions 62 may be held in adjusted positions, since they are supplied with any desired number of longitudinally spaced openings 63, adapted to receive securing elements 64, mounted in the forward parts of the members 58.

As to adjustments to accommodate paper of different widths, it will be noted that the rear wind guards 41 may be adjusted in or out, and the forward wind guards 39 can be adjusted in and out, along with the cross pieces 36 of the auxiliary table 31 shown in Fig. 10. The carriages C of Figs. 5 and 6 can be adjusted in or out on the cross piece 8 of the paper retaining slide S, as can be seen in Fig. 4. The paper engaging wheels 22 and 56 are adjusted accordingly.

As to the length of the paper, the auxiliary table 31 can be adjusted in and out. The arms 52 can be adjusted from front to back, owing to the provision of the slots 51, to position the wheels 22 and 56 with respect to the paper, considered longitudinally thereof.

The supplemental table 28 can be released from the securing device 30, and be swung upwardly and forwardly into the horizontal position shown in Fig. 3, should occasion demand. The paper holders including the parts 58 and 62 press on and hold down a sheet of paper which has been withdrawn from the stack on the fixed table 23. Owing to the adjustment provided at 51 in Fig. 1, the paper holding devices 58—62 will cooperate properly with the paper, regardless of whether the machine is set for paper of a maximum length or for paper of a shorter length.

The paper is stacked upon the table 23, as shown in Fig. 3, and is retained by the needle 11 on the paper holding slide S, the wheels 22 and 56 aiding in retaining the paper. The paper, sheet after sheet, is pulled forwardly and used to wrap a piece of fruit. The construction of the machine is such, owing to the provision of the wind guards 41 and 39, that the paper will not be blown about. The paper, having been advanced, can be plucked out readily, from beneath the paper holding parts 58—62.

In order to recharge the machine, the paper holding slide S and all parts associated with it are raised, the handle 9 of the slide S being engaged with the latch 10 of Fig. 3.

The general construction of the device is such that the operation of wrapping fruit may go forward rapidly. The paper is retained flat and in perfect condition, it being possible to advance sheet after sheet, for wrapping, as occasion may require.

Having thus described the invention, what is claimed is:

1. In a machine for handling wrapping paper,

a frame including a fixed, paper-holding table, an upright carried by the frame, a slide mounted to move vertically on the upright, a paper-engaging element carried by the slide, carriages adjustable on the slide, transversely of the machine, forwardly presented arms adjustable on the carriages longitudinally of the machine, and members hinged to the arms for vertical swinging movement and provided with means for engaging a stack of paper on the table.

2. In a machine for handling wrapping paper, a frame including a fixed, paper-holding table, an upright carried by the frame, a slide mounted to move vertically on the upright, an auxiliary table located at the forward end of the fixed table, means for mounting the auxiliary table for in and out movement with respect to the fixed table, longitudinally of the machine, a supplemental table hinged to the frame for folding movement to an inoperative position and extended forwardly beyond the auxiliary table, mechanism for engaging a stack of paper on the fixed table, and means for connecting said mechanism to the slide for adjustment longitudinally of the machine.

3. In a machine for handling wrapping paper, a frame including a fixed paper-holding table, an upright carried by the frame, a slide mounted to move vertically on the upright, an auxiliary table located at the forward end of the fixed table, means for mounting the auxiliary table for in and out movement with respect to the fixed table, longitudinally of the machine, a supplemental table hinged to the frame for folding movement to an inoperative position and extended forwardly beyond the auxiliary table, mechanism for engaging a stack of paper on the fixed table, and means for connecting said mechanism to the slide for adjustment longitudinally of the machine, thereby to enable said mechanism to bear upon a stack of paper on any of the tables.

4. In a machine for handling wrapping paper, a frame, a fixed table on the frame, an auxiliary table located at the forward end of the fixed table, means for mounting the auxiliary table for in and out movement with respect to the fixed table, the auxiliary table comprising laterally adjustable parts, forward wind guards carried by said parts of the auxiliary table, rear wind guards, means for mounting the rear wind guards on the frame for in and out adjustment, and paper-holding means associated with the frame and operating above the tables and between the wind guards.

5. In a machine for handling wrapping paper, a frame, a fixed table carried by the frame, rear wind guards located at the sides of the table, means for mounting the rear wind guards for in and out movement transversely of the frame, a table extension movably associated with the frame, forward wind guards associated with the extension for in and out movement transversely of the frame, to accommodate paper of different widths, an upright carried by the frame, a slide mounted to reciprocate vertically on the upright, a paper-holding means disposed above the table, and mechanism for assembling the paper-holding means with the slide for adjustment longitudinally of the machine, to accommodate paper of different lengths.

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