June 13, 1933. F. HALL 1,914,254

WRAPPING MACHINE

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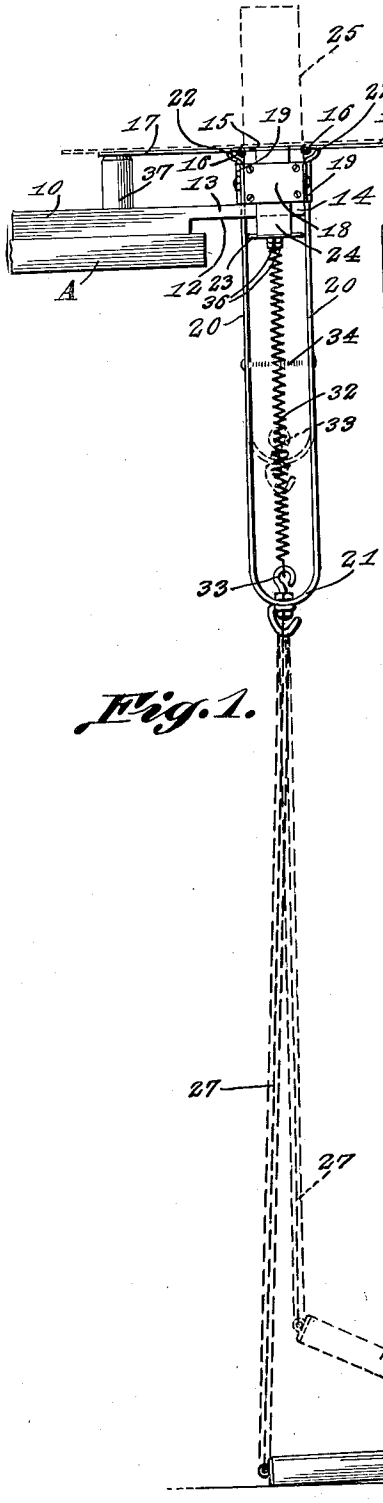


Fig. 1.

Fig. 5.

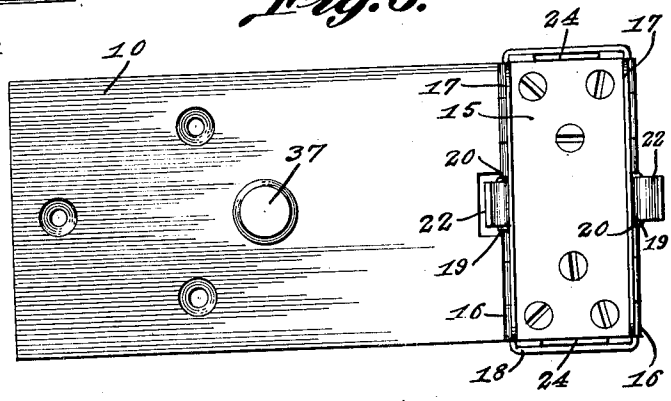
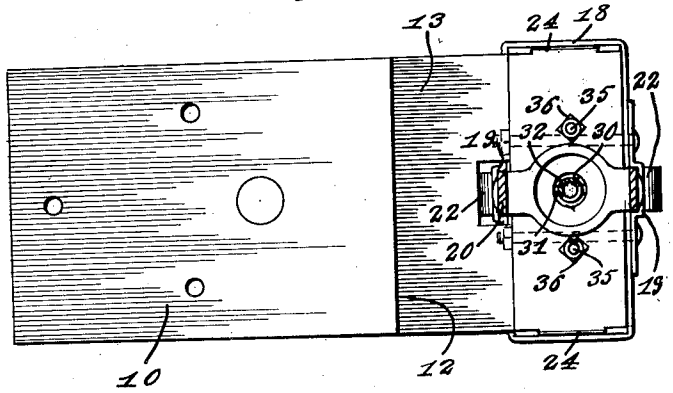


Fig. 6.



Fletcher Hall, INVENTOR

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Fig. 2.

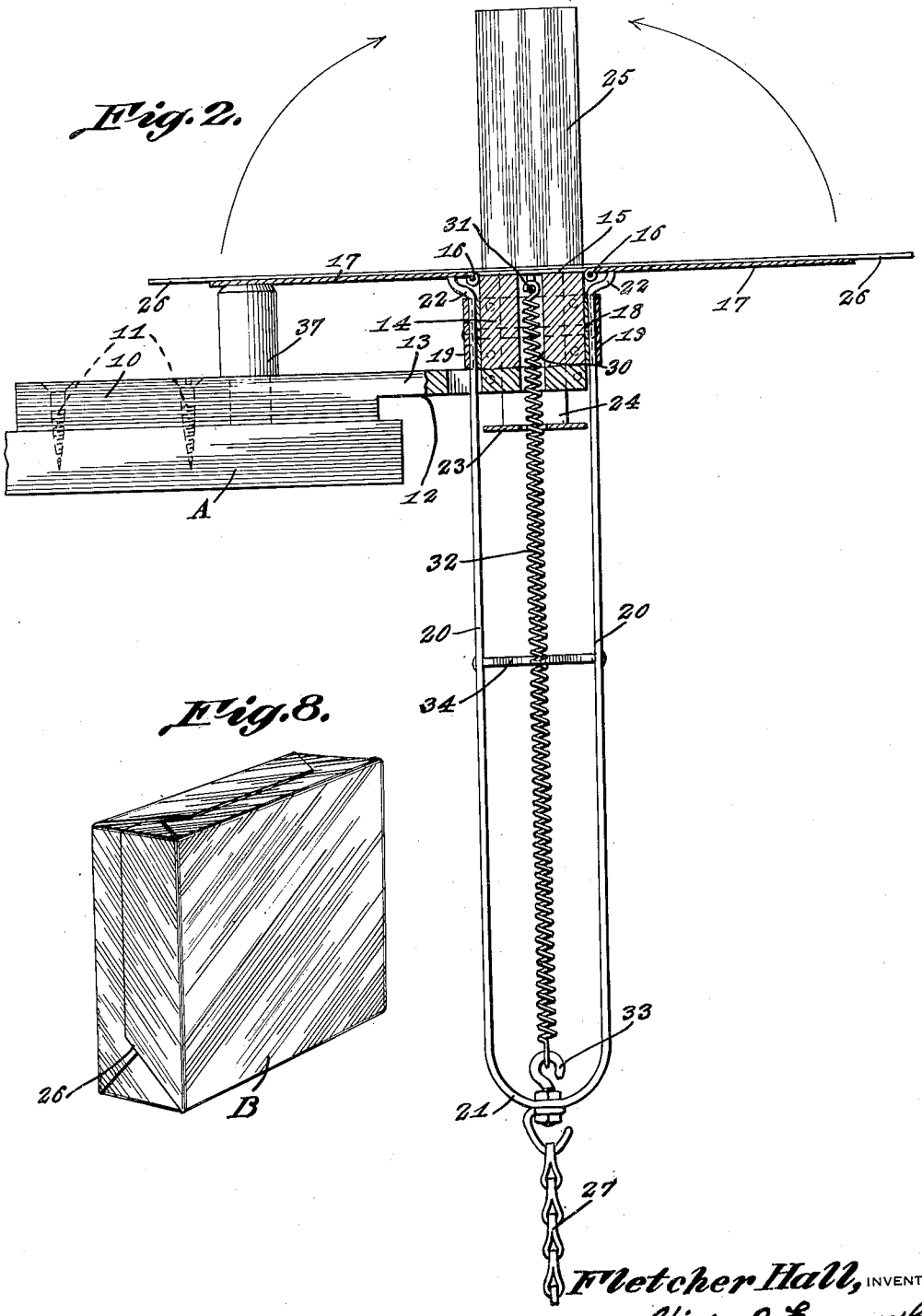


Fig. 8.

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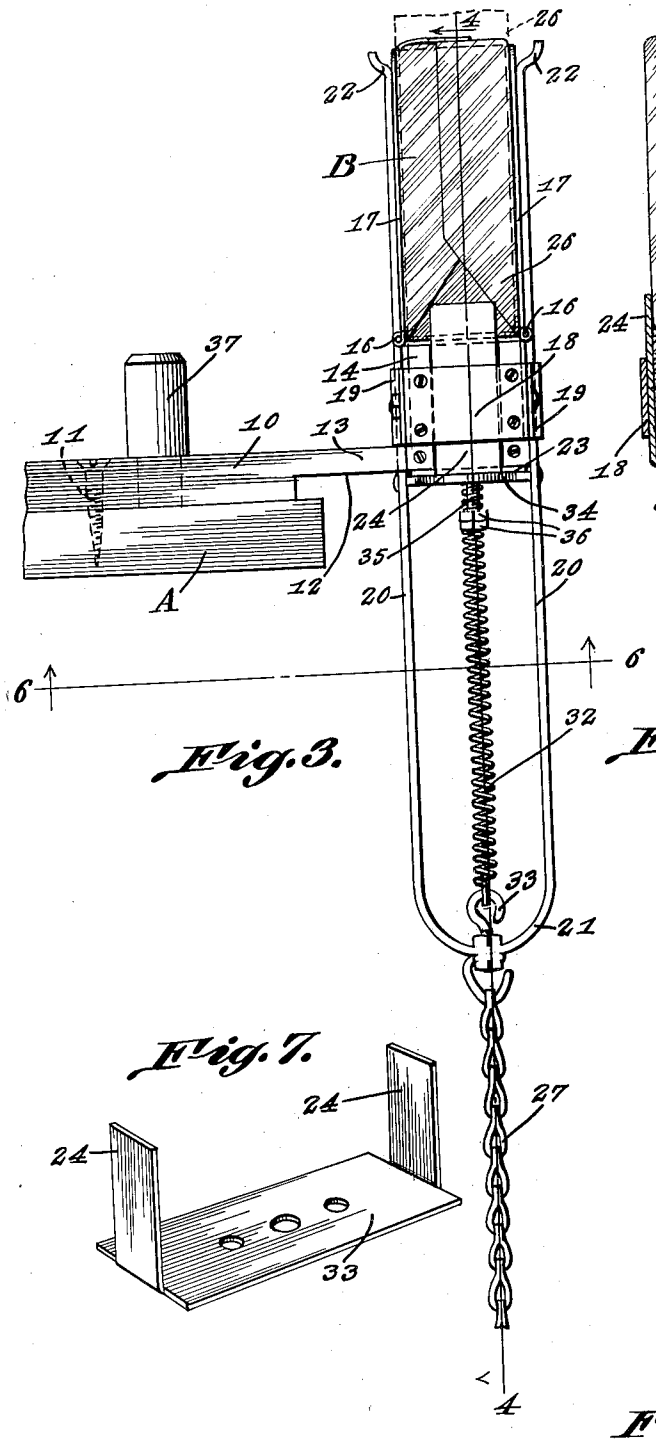


Fig. 3.

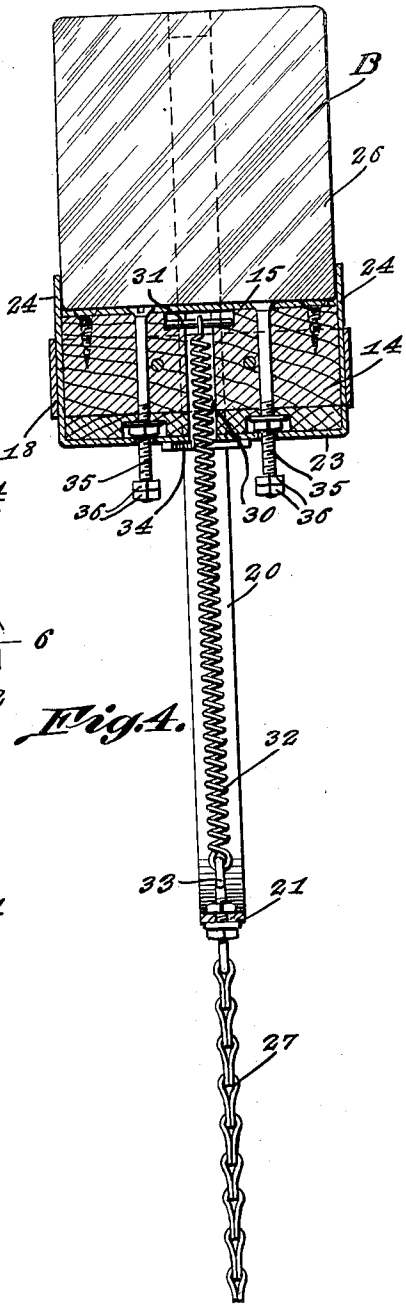


Fig. 4.

Fig. 7.

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Patented June 13, 1933

1,914,254

UNITED STATES PATENT OFFICE

FLETCHER HALL, OF YERINGTON, NEVADA

WRAPPING MACHINE

Application filed August 5, 1932. Serial No. 627,647.

The invention relates to a wrapping machine and more particularly to a honeycomb wrapping machine.

The primary object of the invention is the provision of a machine of this character, wherein sheets of cellophane may be so placed relative to the honeycomb, whereby the latter can be successfully wrapped, as the wrapper of the kind stated can be folded about the honeycomb and the wrapping closed thereon without requiring manual labor for this purpose, thus enabling the packaging with dispatch.

Another object of the invention is the provision of a machine of this character, wherein the construction thereof is novel in form and is susceptible of easy operation for the wrapping of honeycomb with flat sheets of paper, preferably cellophane wrappers, and the honeycomb when enveloped will be completely closed so that it may be handled for shipment or distribution or for storage thereof.

A further object of the invention is the provision of a machine of this character, wherein the same is operated from a treadle or foot pedal and will successfully wrap honeycombs in a neat and compact manner, the machine in its entirety being of novel construction.

A still further object of the invention is the provision of a machine of this character which is simple in construction, thoroughly reliable and efficient in its purpose, strong, durable, readily and easily operated, and inexpensive to manufacture and install.

With these and other objects in view, the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described in detail, illustrated in the accompanying drawings, which disclose the preferred embodiment of the invention, and pointed out in the claims hereunto appended.

In the accompanying drawings:—

Figure 1 is a side elevation of a machine constructed in accordance with the invention showing by full lines the open position of the machine and by dotted lines the closed position thereof.

Figure 2 is an enlarged side elevation partly in section with the machine in open position and the honeycomb located therein for the wrapping of the same.

Figure 3 is a view similar to Figure 2 showing the honeycomb wrapped.

Figure 4 is a sectional view on the line 4—4 of Figure 3 looking in the direction of the arrows.

Figure 5 is a top plan view.

Figure 6 is a sectional view on the line 6—6 of Figure 3 looking in the direction of the arrows.

Figure 7 is a perspective view of an adjunct of the machine.

Figure 8 is a perspective view of the wrapped honeycomb.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings in detail, the machine constituting the present invention is adapted for mounting upon a horizontal support A such as a table top or other rest or foundation and said machine includes a bed 10 bolted, screwed or otherwise fastened to the support A, in this instance it being shown attached by screws 11. The bed 10 protrudes beyond the edge of the support A and the underside of this bed is cut away at 12. The protruded undercut portion 13 of the bed 10 carries at its upper side a work holder including a base block 14 having a top plate 15.

The top plate 15 at opposite longer edges thereof has connected through the medium of hinges 16 vertically swinging folding sections or wings 17, these being moved in a manner presently described.

Engaged about the base block 14 is a frame 18 having medially at opposite sides of said block the guides 19 for the limbs 20 of a substantially U-shaped actuator yoke 21, the limbs 20 being trained through the guides 19 and have at their free ends outwardly and upwardly curled tips 22, these being adapted to operate upon the sections or wings 17 on movement of the yoke to swing the said sections or wings upwardly or to permit the same to gravitate downwardly.

Mounted in the yoke 21 between the limbs

20 thereof is a bail 23 having the upstanding ends 24 which operate to project above the ends of the block 14 or become lowered from the upper face of the plate 15 upon the block and these members 24 function to fold the ends of a wrapper or sheet for the packaging of a honeycomb 25 when placed in the machine, the wrapper or sheet 26 being laid flat upon the plate 15 and overlying the sections or wings 17 when the latter are in lowered position in the same plane with the plate 15. On the upward movement of the sections or wings 17 the sheet of paper is folded about the honeycomb 25 and the members 24 likewise fold the end edges of the sheet for the packaging of the honeycomb as exhibited at B in Figure 8 of the drawings.

The yoke 21 has connected thereto a chain 27 which is connected with a foot pedal or treadle 28 hinged at 29 below the support A as shown in Figure 1 of the drawings and this treadle or pedal 28 is foot operated and upon depressing the same the yoke 21 will be lowered to permit the sections or wings 17 to swing downwardly to the position shown in Figures 1 and 2 of the drawings and in this position the paper sheet is laid thereon and the honeycomb 25 superimposed upon the sheet 26 as exhibited in Figure 2 of the drawings.

Formed in the block 14 centrally thereof is a passageway 30 and straddling this passageway is an anchoring pin 31 for the connection therewith of the upper end of a coiled retractile spring 32, the same at its lower end being connected by a hook 33 to the closed lower end of the yoke 21 and thus said yoke will be urged upwardly by the contraction of the spring 32.

The bail 23 is connected with the yoke or operated upon thereby through the medium of a saddle 34 secured in the limb 20 of the yoke and this bail 23 rests upon said saddle 34, the bail being guided through the medium of guide members or bolts 35 having adjustable stop nuts 36 thereon which limit the downward movement of the bail 23 on the lowering of the yoke 21 in the operation thereof.

The bed 10 has fitted therein a rest lug 37 for one section or wing 17 adjacent thereto so that such section or wing will come to rest upon this lug 37 as shown in Figures 1 and 2 of the drawings and in this position the sheets of paper for the wrapping of the honeycomb can be delivered to the machine for the subsequent wrapping of the honeycomb in the operation of said machine.

What is claimed is:—

1. A machine of the kind described comprising a bed for mounting upon a horizontal support to protrude beyond the latter and having a cutaway portion in the underside of its protruded length, a base block superimposed upon the protruded portion of the bed, a frame about the base block, a substantially U-shaped actuator yoke slidably fitted in opposite sides of the frame, a tensioning spring connected with the block and said yoke for urging the yoke upwardly, outwardly and upwardly curled tips at the free ends of the yoke, wings hinged at opposite sides of the yoke and having sliding contact of the tips therewith, a bail interfitted with the yoke and having upstanding ends which operate to project above the ends of the block, and means on the yoke to move the bail from normal lowered position to a raised position relative to the block.

2. A machine of the kind described comprising a bed for mounting upon a horizontal support to protrude beyond the latter and having a cutaway portion in the underside of its protruded length, a base block superimposed upon the protruded portion of the bed, a frame about the base block, a substantially U-shaped actuator yoke slidably fitted in opposite sides of the frame, a tensioning spring connected with the block and said yoke for urging the yoke upwardly, outwardly and upwardly curled tips at the free ends of the yoke, wings hinged at opposite sides of the yoke and having sliding contact of the tips therewith, a bail interfitted with the yoke and having upstanding ends which operate to project above the ends of the block, means on the yoke to move the bail from normal lowered position to a raised position relative to the block, and adjustable stops depending from the bed for limiting the raising and lowering movement of the bail.

In testimony whereof I affix my signature.

FLETCHER HALL.