

Sept. 5, 1950

J. R. ZALOUDEK
GARMENT BAGGING MACHINE

2,521,197

Filed March 17, 1949

2 Sheets-Sheet 1

Fig. 1.

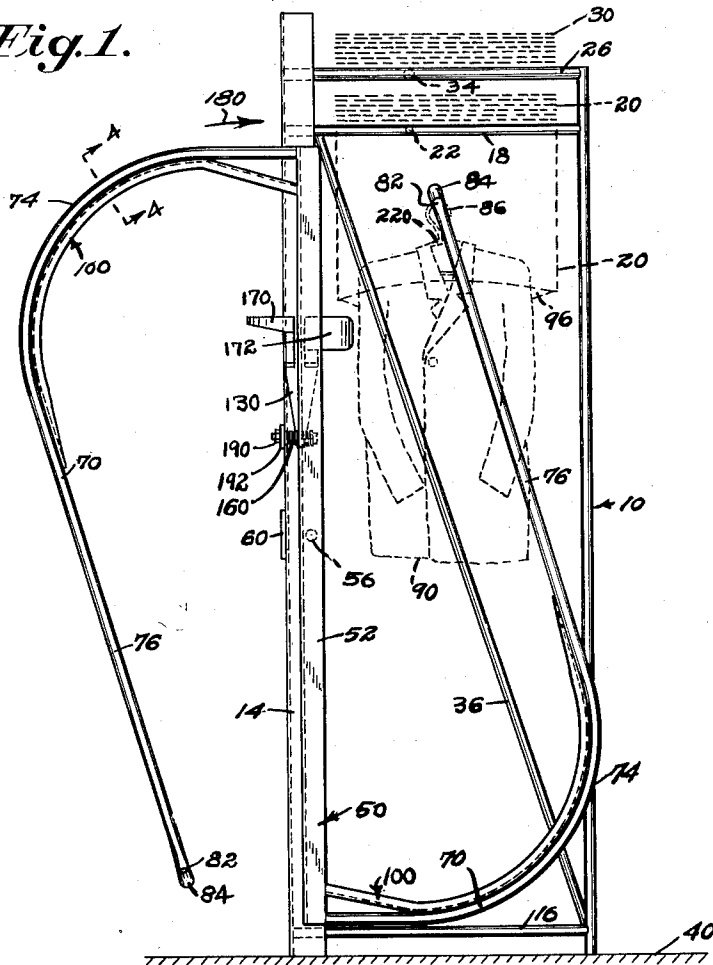
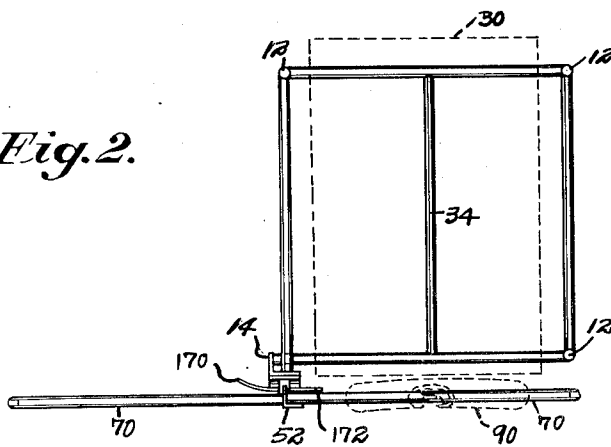


Fig. 2.



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Fig. 3.

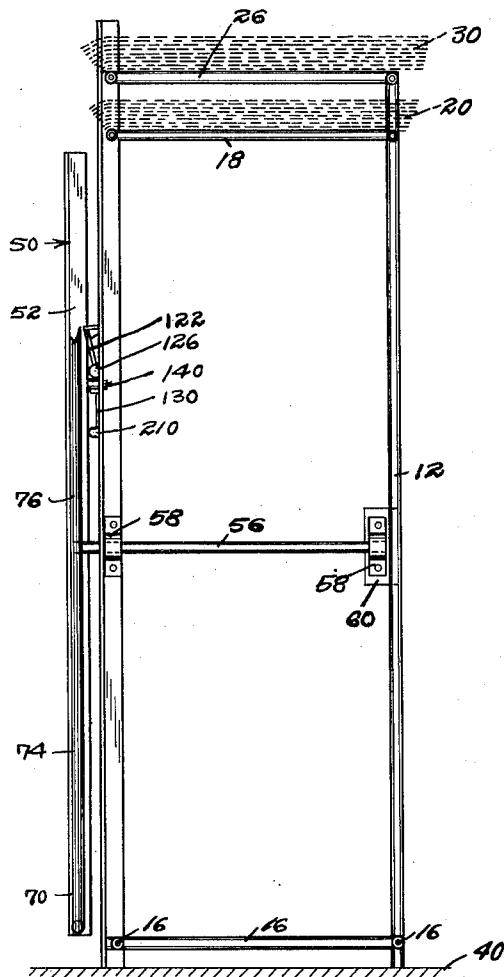


Fig. 4.

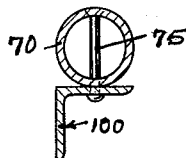


Fig. 5.

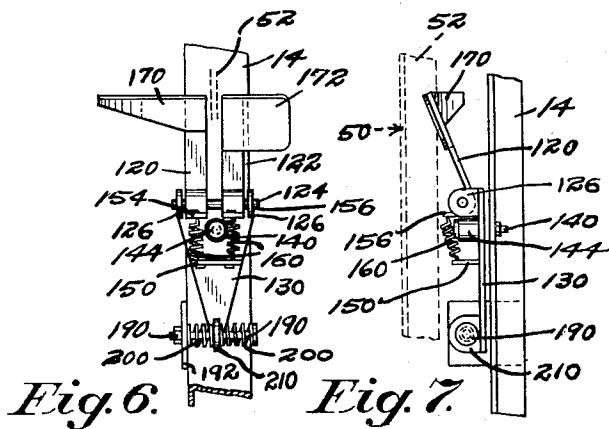
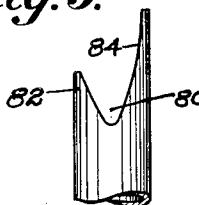


Fig. 6.

Fig. 7.

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GARMENT BAGGING MACHINE

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3 Claims. (Cl. 226—18)

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This invention relates to the handling of clothing and more particularly it is an object of the invention to provide a machine for facilitating the placing of protective bags on garments.

Another object of the invention is to provide a machine as described which is adapted to support large quantities of garment bags in convenient positions from which they can be pulled downwardly over a supported garment.

Another object of the invention resides in the provision of a machine as described which is adapted to uphold an overcoat or the like in a position of sufficient height for preventing its coming in contact with the floor, permitting the garment to swing downwardly, while yet supported, to a position such that the operator can easily remove the garment from its support.

A further object of the invention is to provide a garment bagging machine having two garment supports, one of which is adapted to swing into position for receiving a garment to be bagged at the time when the other is swinging into position for delivering a bagged garment.

A particular object of the invention is to provide a novel latching mechanism for catching a swinging garment support and releasably holding the same in a position for bagging.

Still a further object of the invention resides in the provision of a notch in the end of a garment supporting member of the invention, the notch being shaped in a manner for facilitating the placing of a garment therein and the removal of a garment therefrom.

Another object of the invention is to provide a device for the purpose described which is sturdy and durable in construction, reliable and efficient in operation, and relatively simple and inexpensive to manufacture, assemble and utilize.

Other and still further objects and advantages of the invention will become apparent from the following detailed description of a preferred embodiment thereof.

In the drawings:

Figure 1 is a frontal elevation of the garment bagging machine of this invention shown with a garment in bagging position thereon, and with a garment bag partially drawn over the top of the garment, the garment and the bag being shown in dotted lines.

Figure 2 is a top plan view of the machine shown in Figure 1.

Figure 3 is a side elevation of the machine as seen from the right-hand side in Figure 1.

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Figure 4 is a view-in-section taken along the line 4—4 of Figure 1.

Figure 5 is a detailed view of an end portion of one of the garment supporting members of the invention.

Figure 6 is a frontal elevation of the latching mechanism of the invention, together with a broken away portion of the adjacent frame, an edge of a garment supporting member being indicated in dotted lines between the two latches thereof.

Figure 7 is a side elevation of the parts shown in Figure 6, the said portion of the garment supporting member also showing in dotted lines.

The garment bagging machine of this invention comprises a frame generally indicated at 10.

The frame 10 preferably has three upright members 12 formed of pipe or the like, and a fourth upright member 14, preferably formed of angle iron.

The uprights 12 and 14 are disposed in the opposite corners of a rectangle, and the frame further includes horizontal members 16 disposed around the bottom of the rectangle and interconnecting the members 12 and 14; other horizontal members 18 disposed upwardly from the members 16 and horizontally arranged in a rectangle for supporting garment bags indicated in dotted lines at 20.

Two opposite ones of the members 18 are connected by a cross member 22 for further supporting the bags 20.

Upwardly spaced from the members 18 are a second group of horizontally disposed frame members 26 arranged in a rectangular configuration for supporting a second group of garment bags 30. Two of the frame members 26 are further connected by means of a cross member 34, which latter serves to further support the garment bags 30.

The frame thus formed may be diagonally braced by means of members 36, if desired, and the frame is arranged having the lower end of the various upright members disposed in horizontal plane for resting upon the floor 40 of the building.

This invention further includes garment supporting means, including a member 50 having a preferably straight elongated center section 52 formed of angle iron.

The section 52 is pivotally mounted on the frame 10 at its center and by means of an axle shaft 56, which latter is rotatably disposed in bearing blocks 58. One of the latter is secured to the upright 14, the other is secured to that

upright 12 which is directly rearwardly disposed from the upright 14, and is secured to the said upright 12 by means of a mounting plate 60.

The garment supporting means further includes two sections 70 which extend in opposite directions outwardly from opposite ends of the straight portion 52 and at preferably a right angle with respect to the straight portion 52.

The sections 70 have arcuate portions 74 connecting elongated garment bag receiving portions 76 to the straight section 52.

The garment bag receiving portions 76 are each preferably straight and are provided on their outer end with notches 80 having side walls 82 and 84. The side wall 84 preferably extends outwardly from the end of the garment supporting rod a greater distance for catching coat-hanger hooks to guide the latter into the notches 80.

The longer walls 84 are disposed on the frame sides of the notches 80. The shorter wall 82 serves to permit the free removal of a hanger hook 86 holding a garment 90, as indicated in dotted lines in Figure 1.

The elongated garment receiving portions 76 of each of the members 70 are disposed each in a position with respect to the straight section 52 such that at times when the section 52 is vertically disposed, the tip end of one of the portions 76 will be disposed under the middle of the open ends 96 of the garment bag 20.

It is preferable that the garment supporting members, as thus described, be reinforced by means of angle irons 100. The latter are each disposed on the inside of the curved portions 74 and are secured thereto by pins 75. Adjacent the sections 22, however, the reinforcing irons are spaced apart from the sections 70 and join and are secured to the sections 52 at points spaced inwardly from the sections 70.

As thus described, it will be seen that those parts of the garment supporting member 50 which are disposed on opposite sides of the pivot shaft 56 counter-balance each other and are preferably of identical shape.

This invention further includes latch means for arresting pivoting movements of the garment supporting member 50. Such means includes two latch members 120 and 122. The latter are each elongated and are each pivotally mounted on a bearing pin 124, which latter is secured in ears 126 of a mounting member 130.

The mounting member 130 is disposed in parallelism with the forward side of the upright member 14 and is pivotally secured thereto by means of a bolt 140 and washer 144.

The mounting member 130 is further provided with a transversely disposed forwardly extending nib 150 which is disposed spaced apart from the undersides of the latch members 120 and 122.

The latch members 120 and 122 are each provided with an outwardly extending lug 154 and 156 respectively. Two springs 160 are provided disposed each connecting one of the lugs 156 to the nib 150. The disposition of the lugs 154 and 156 is such that the springs 160 will urge the latch arms 120 away from and forwardly from the supporting member 14.

The latch arms 120 and 122 are each provided with a transversely disposed arm 170 and 172, respectively.

The arm 170 of the left-hand latch member 120 preferably functions as a guide and is curved rearwardly at its outer end for catching the rearward edge of the section 52 of the garment supporting member 50 at times when the latter

is rotating in the direction of the arrow 180, as shown in Figure 1.

The arm or guide 170 will cause its latch 120 to be deflected rearwardly for permitting the rearward edge of the section 52 to pass.

The other latch arm 122 will prevent the further movement of the section 52 in the direction of the arrow 180, except at times when the operator pushes rearwardly upon the arm 172 to release the latch 122, as later described.

Shock absorbing means are provided by the invention for gradually resisting the impact of the garment supporting member 50 upon the latch member 120. Such means includes the mounting member 130, previously described, and further includes a mounting bolt 190, which latter is disposed through a horizontal bracket 192, which latter extends forwardly from the upright 14. The bolt 190 is held in a horizontal position transversely of the support 14, in parallelism with the front thereof and in parallelism with the plane of rotation of the mounting member 130.

Two springs 200 are disposed on the bolt 190 on opposite sides of a forwardly extending tab 210, which latter is secured to the lower end of the member 130. The tab 210 is provided with an aperture therethrough for receiving the bolt 190, the aperture being of such size as to permit considerable movement of the mounting 130 along the bolt 190.

As thus described, the springs 200 will resist pivoting movements of the mounting 130 in both directions.

In operation, it will be seen that the garment supporting member 50 will be disposed in the position shown in Figure 1, with a garment 90 thereon at the time of bagging. The supporting member 50 will be held in this position by the latch members 120 and 122.

One of the garment bags 20 may then be pulled downwardly over the upper end of the elongated end portion 96, over the suit 90 and the hanger 220.

When the bag is in position over the garment 90, the operator may push rearwardly on the arm 172 releasing the garment supporting member 50. The latter will be caused to rotate by gravity in the direction of the arrow 180, since the weight of the garment 90 will over-balance the other half portion of the supporting member 50. When the garment has reached a convenient position within reach of an operator, the garment 90 may be held while the garment supporting member 50 continues rotation. The member 50 will then pass outwardly from the garment bag, leaving the garment in bagged condition in the hands of the operator.

The garment supporting member 50 will continue its rotation until such time as the opposite end 76 of the support 50 is in the position shown in Figure 1. Just prior to reaching this position, the straight portion 52 will bump the guide 170, deflecting the same rearwardly against the urge of the spring 160 until the portion 52 has passed the latch member 120. At this time it will abut and be stopped by the latch member 122 and will be locked in bagging position.

It will be seen that this invention has provided a garment bagging machine which is adapted to facilitate the convenient placing of bags on garments, to support large quantities of garment bags in convenient positions, to remove itself by gravity from a bagged garment, to rotate without the application of power under the weight of

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garments placed thereon, to automatically and securely lock in a desired bagging position, to be conveniently releasable for movement from a bagging position to delivery position; and has provided a bagging machine so constructed as to be shock absorbing.

From the foregoing description it is thought to be obvious that a garment bagging device constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof, and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as claimed.

I claim:

1. A garment bagging machine comprising: a frame; means on said frame for supporting garment bags; a garment supporting member having two elongated end portions for the reception of garment bags thereover, said end portions being disposed extending in opposite directions, said member being pivotally secured to said frame at a point on said member between said end portions for pivoting in a normally vertical plane, the tips of said end portions being provided with notches, one side wall of each notch being disposed extending further outwardly than the other side wall; two releasable latches pivotally secured to said frame in a manner for engaging opposite sides of said garment supporting member to hold said member in a garment receiving position, one of said latches being provided with an inclined guide portion for engaging said member at times to depress said one latch for permitting the passage of said member; and resilient means for urging said latches toward positions for engaging said garment supporting member.

2. A garment bagging machine comprising: a frame; means on said frame for supporting garment bags; a garment supporting member having

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an elongated end portion for the reception of a garment bag thereover; means pivotally mounting said member on said frame for permitting the swinging of said end of said member from a normally upper garment receiving position to a normally lower garment delivering position; a mounting member pivotally secured to said frame for pivoting in a plane in parallelism with the plane of pivoting of said supporting member; shock absorbing means engaging said mounting member and secured to said frame for resisting movements of said mounting member from a rest position; two releasable latches pivotally secured to said mounting member in a manner for engaging opposite sides of said garment supporting member to hold said member in a garment receiving position; releasable latch means for holding said member in a garment receiving position; and springs secured to said latches and to said mounting member for urging said latches toward positions for engaging and supporting said garment supporting member.

3. A garment bagging machine comprising: a frame; means on said frame for supporting garment bags; a garment supporting member having two elongated end portions for the reception of garment bags thereover, said end portions being disposed extending in opposite directions, said member being pivotally secured to said frame at a point on said member between said end portions for pivoting in a normally vertical plane; and releasable means for holding said member in a garment receiving position.

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REFERENCES CITED

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

UNITED STATES PATENTS

Number	Name	Date
1,517,814	Wolsiffer	Dec. 2, 1924
2,041,224	Brown	May 19, 1936
2,385,996	Kohl	Oct. 2, 1945