Nov. 3, 1931. N. S. McEWEN 1,830,368

GARMENT BAGGING DEVICE

Filed July 31, 1929

Fig. 1.

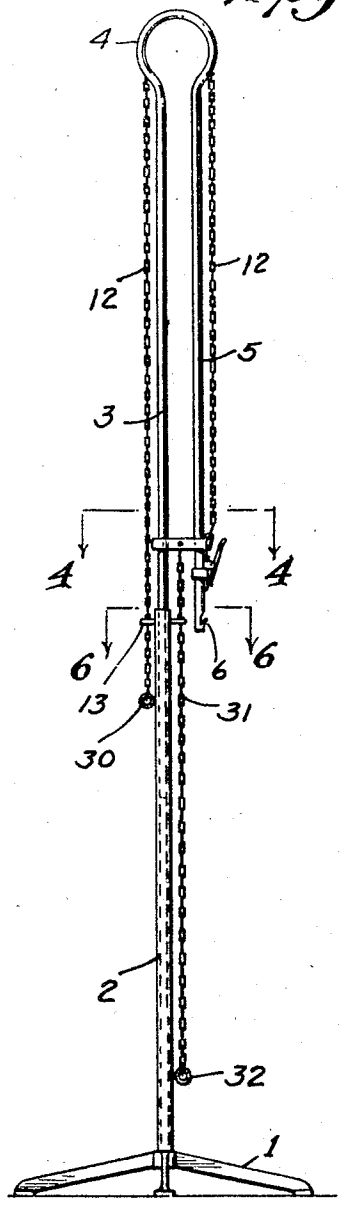


Fig. 2.

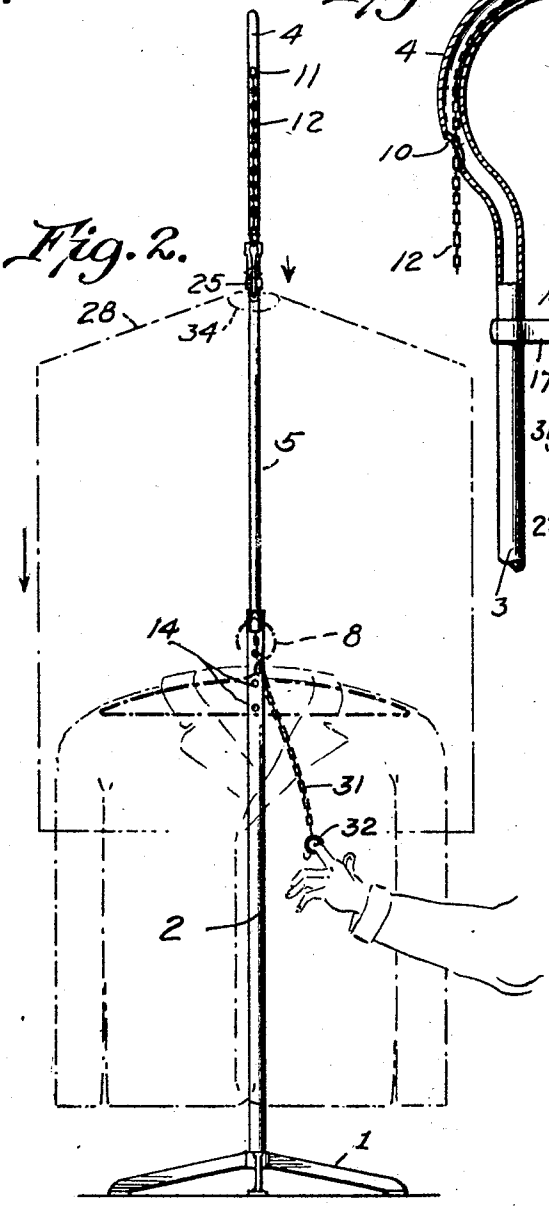
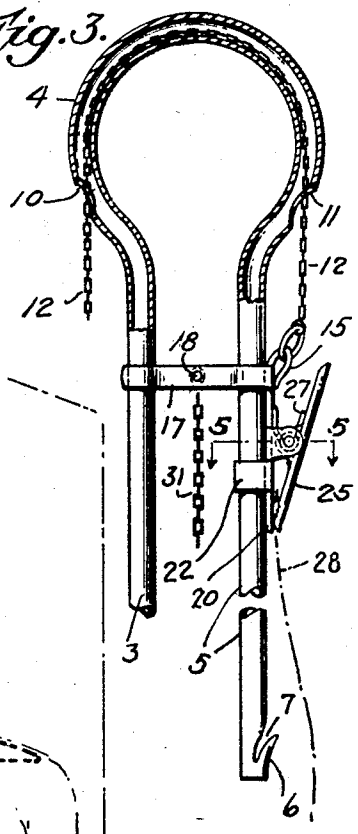


Fig. 3.



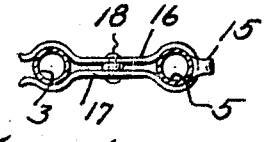


Fig. 4.

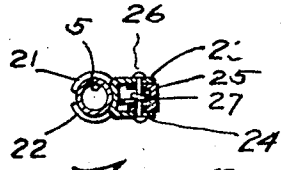


Fig. 5.

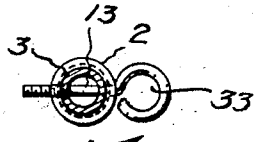


Fig. 6.

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UNITED STATES PATENT OFFICE

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GARMENT BAGGING DEVICE

Application filed July 31, 1929. Serial No. 382,455.

This invention relates to garment bagging machines of particular use in cleaning establishments and the like, and has for its object to provide a device which is more efficient in use and less costly to manufacture than those heretofore proposed.

With these and other objects in view the invention consists in the novel details of construction and combinations of parts as will be more fully hereinafter disclosed and particularly pointed out in the claims.

Referring to the accompanying drawings forming a part of this sepcification in which like numerals designate like parts in all the views;

Fig. 1 is a side elevational view of a machine made in accordance with this invention;

Fig. 2 is a front elevational view of the parts shown in Fig. 1;

Fig. 3 is an enlarged detail view partly in section of the upper portion of the machine;

Fig. 4 is a transverse sectional view taken as on the line 4—4 of Fig. 1 and looking in the direction of the arrows;

Fig. 5 is a horizontal sectional view through the clamping member for holding the bag, said view being taken as on the line 5—5 of Fig. 3 and looking in the direction of the arrows; and

Fig. 6 is a transverse sectional view taken as on the line 6—6 of Fig. 1 and looking in the direction of the arrows to illustrate the means for adjustably securing parts of the machine in various elevation.

In order that this invention may be the better understood it is said that heretofore there have been produced garment bagging machines which have either been of a definite unalterable vertical dimension and therefore in many cases too tall for certain rooms in which they were to be used, or else they were devices to be secured to the ceiling or wall of a room and therefore incapable of movement from one position to another in the establishment. This invention contemplates a device which may be readily moved from place to place in that it is not secured to either the floor, ceiling, or wall of a room, as well as a device which is readily adjustable for use in rooms of various height. Further advantages will appear from the following description.

This machine comprises a base 1 which may have three or more outwardly extending legs to keep the device in an upright position, said base having rigidly secured thereto a vertical pipe 2 the upper end of which is left open to slidingly receive the end of another pipe 3 which is doubled upon itself providing a bend 4 and a portion 5, the latter extending parallel with the other portion of the pipe 3. The portion 5 has at its lower end a hook 6 formed in any convenient manner such as by cutting an oblique slot 7 from the side of the pipe inwardly toward the center, see Fig. 3, the purpose of this hook being to receive a garment hanger 8 indicated in dotted lines in Fig. 2. The bend 4 is provided at its ends with the openings 10 and 11 to permit a chain 12 passing therethrough and interiorly around the bend so that the interior surface of the pipe at the bend will serve as a non-rotative pulley and brake for the chain when the latter is operated.

The pipe 3 is of an external diameter just sufficient to slidingly fit within the pipe 2, the former being retained in the desired adjustable position relative to the latter by a pin 13. That is to say, the pipe 2 is provided with a vertical plurality of diametral drilled openings 14, and the lower end of the pipe 3 is provided with a diametral drilled hole whereby the pin 13 may be passed through said openings and form an adjustable securement well known in the arts.

One end of the chain 12 is secured to a loop or eye 15 rigidly secured to or integrally formed with a combined guide and clamping device which comprises two arms 16 and 17 bent around to slidingly engage the portion 5 of the pipe 3, said arms secured together by a rivet or bolt 18 beyond which said arms are outwardly directed to slidingly engage the other portion of the pipe 3, see Fig. 4. Formed with the arms 16 and 17 is a downwardly extending clamp member 20 near the lower end of which are oppositely disposed tabs 21 and 22 bent around to slidingly en-

gage the portion 5 of the pipe 3, and adjacent these tabs is a pair of substantially parallelly disposed ears 23 and 24 forming a support for an arm 25 adapted for pivotal movement about a rivet 26 passing through said ears, a spring 27 being interposed between the clamp members 20 and 25. It will thus be seen from Figs. 3 and 5 that the parts just described form a spring clamp, the ends of the members 20 and 25 being adapted to grip the upper central portion of the bag 28 which is intended to be placed over the garment.

The other end of the chain 12 is provided with a pull ring 30 by means of which the chain 12 may be moved to slide the clamping device upwardly thus raising the garment bag to the upper extremity of the bagging machine. In this movement the arms 16 and 17 prevent a twisting of the chain about the pipe and insure the bag being properly positioned for application to the garment, the tabs 21 and 22 assisting by preventing a "cocking" of said arms. Carried by the rivet 18 is a second chain or other suitable member 31 provided with a pull ring 32 by means of which the garment bag is lowered. The securing pin 13 may be an ordinary pin or it may be a special pin as desired. In Fig. 6 it is illustrated as being threaded at one end and provided at its other end with an eye 33 serving as a guide for the chain 12.

In operation the garment bag is secured by the spring clamp comprising the members 20 and 25 and then the chain 12 is pulled as by the ring 30 to elevate the bag to the extremity of the machine. The garment to be bagged is then applied to the machine by engaging the garment hanger 8 with the hook 6, after which the bag is brought down by pulling the chain 31, the clamping device sliding freely over the two portions of the pipe 3. When the bag has been thus lowered, it is released from the spring clamp members 20 and 25 and the enveloped garment removed from the machine to the shipping room, after which a new bag is secured by the clamp and raised for subsequent application to another garment. It should be stated that the garment bags now used in trade are entirely open at their bottom but the top is closed with the exception of a small opening indicated at 34 to permit the hook of the garment hanger 8 passing therethrough. In other words, it is customary when delivering a laundered garment to the customer to have the same hung upon a hanger in order to retain the shape of the garment, and to prevent dust and dirt coming in contact with the garment the same is enveloped in a paper bag, and the means for handling the garment so enveloped is the hook of the garment hanger which extends out through the small opening 34 in the top of the bag.

By this invention, it will thus be seen, there is provided a machine employing the bent portion 4 thereof as a motionless pulley for engaging the chain 12 in such manner that said chain in sliding thereover will be subjected to sufficient friction to overcome the weight of the supported garment enveloping bag. In other words, the friction of the chain with the interior rounded surface of the bend 4 is sufficient to create a brake so that positive pressure must be applied as through the rings 30 and 32 to cause movement of the chain 12. It will also be seen that the interior portion of the pipe 3 at the bend 4 is in fact a tunnel through which the chain 12 passes since the pipe is provided with the openings 10 and 11 which constitutes the inlet and outlet of said tongue. In heretofore known constructions of similar devices there have been provided actual pulleys over which rope chains or the like pass, but it has very frequently happened that the rope chain etc. jumps from the pulley and becomes wedged in the pulley frame necessitating considerable trouble in remedying the situation. By this invention on the other hand the interior of the pipe 3 serves the exact same function as the groove of the pulley with the added safety feature, however, of not permitting the chain to become disengaged from the same. In other words, the openings 10 and 11 constitute positive means for insuring engagement of the chain with the groove of the pipe and therefore the correct operation of the device is always insured.

It is obvious that those skilled in the art may vary the details of construction as well as arrangements of parts without departing from the spirit of the invention and it is therefore not desired to be limited to the foregoing except as may be required by the claims.

What is claimed is:—

1. In a device of the character described the combination of a garment support comprising a member doubled upon itself, the bend provided with a tunnel; a garment bag clamp; and means passing around said bend and through said tunnel for moving said clamp.

2. A garment bagging machine comprising a standard, a tubular member adjustable within said standard, and bag elevating means frictionally engaging an interior portion of said member.

3. A garment bagging machine comprising a standard, a tubular member bent to form a U one leg of which constitutes a support for a garment and the other leg of which is adjustable within said standard, and bag elevating means interiorly engaging a portion of said member.

4. A garment bagging machine comprising a standard, a tubular member bent to form a U one leg of which constitutes a support for a garment and the other leg of which is ad-

justable within said standard, and bag elevating means engaging the bend of said member.

5. A garment bagging machine comprising a standard, a tubular member bent to form a U one leg of which constitutes a support for a garment and the other leg of which is adjustable within said standard, and bag elevating means interiorly and substantially coaxially engaging the bend of said member.

6. A garment bagging machine comprising a standard, a pipe bent to form a U one leg of which constitutes a support for a garment and the other leg of which is adjustable within said standard said pipe provided with an opening in the wall thereof on each side of the bend, and bag elevating means passing through said openings and interiorly engaging the bend of said pipe.

In testimony whereof I affix my signature.

NORMAN S. McEWEN.