July 22, 1952 L. B. ADAMS 2,603,926

COTTON SAMPLE WRAPPING TABLE

Filed March 24, 1947 3 Sheets-Sheet 1

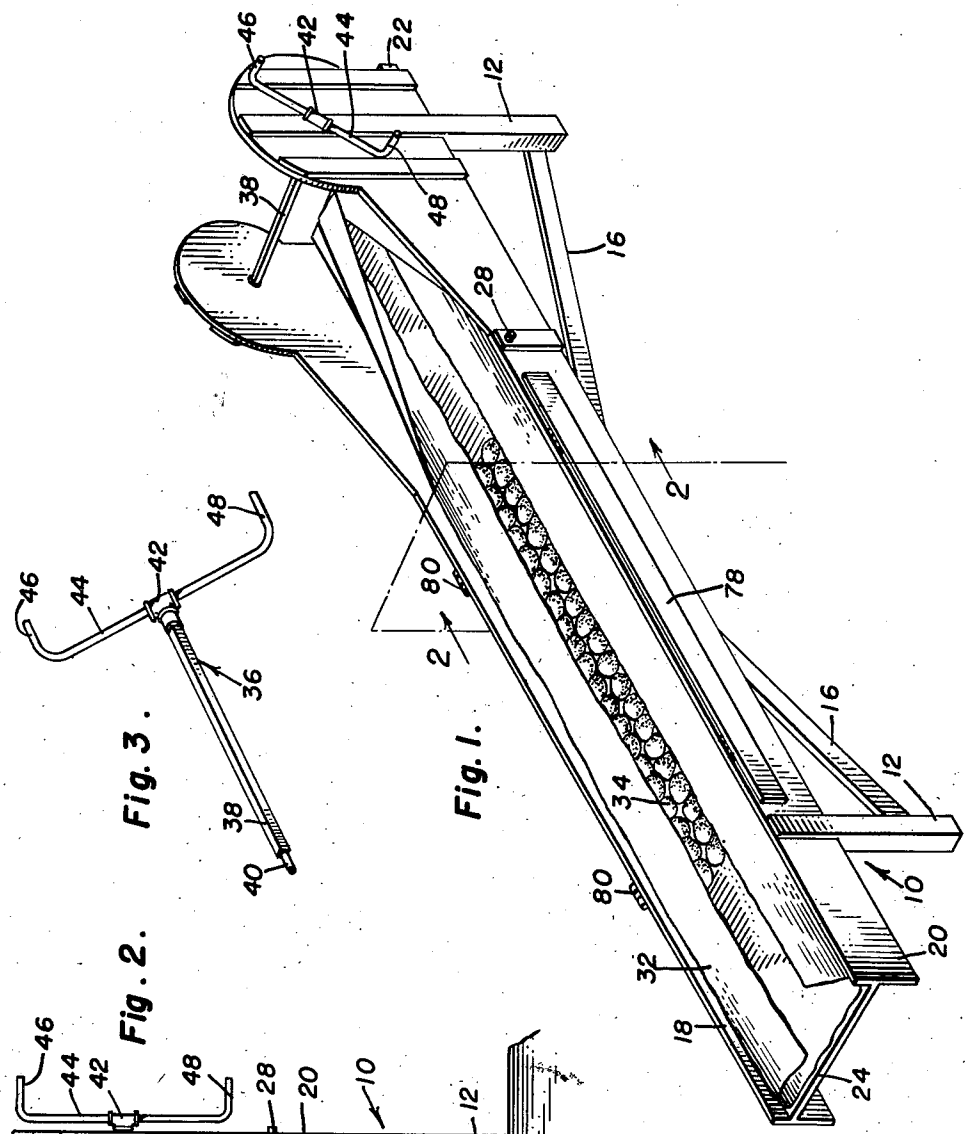


Fig. 1.

Fig. 3.

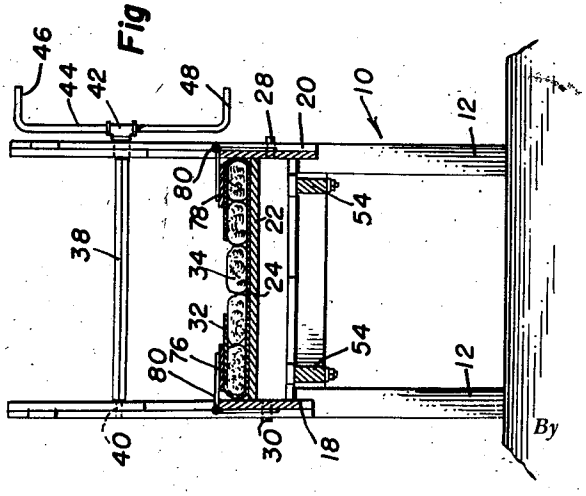


Fig. 2.

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COTTON SAMPLE WRAPPING TABLE

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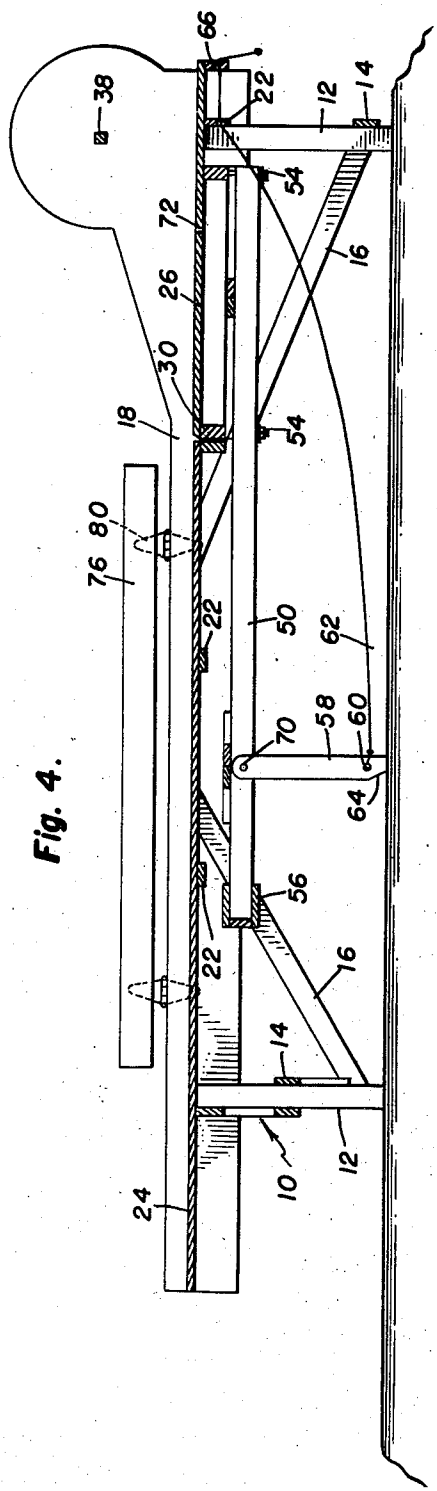


Fig. 4.

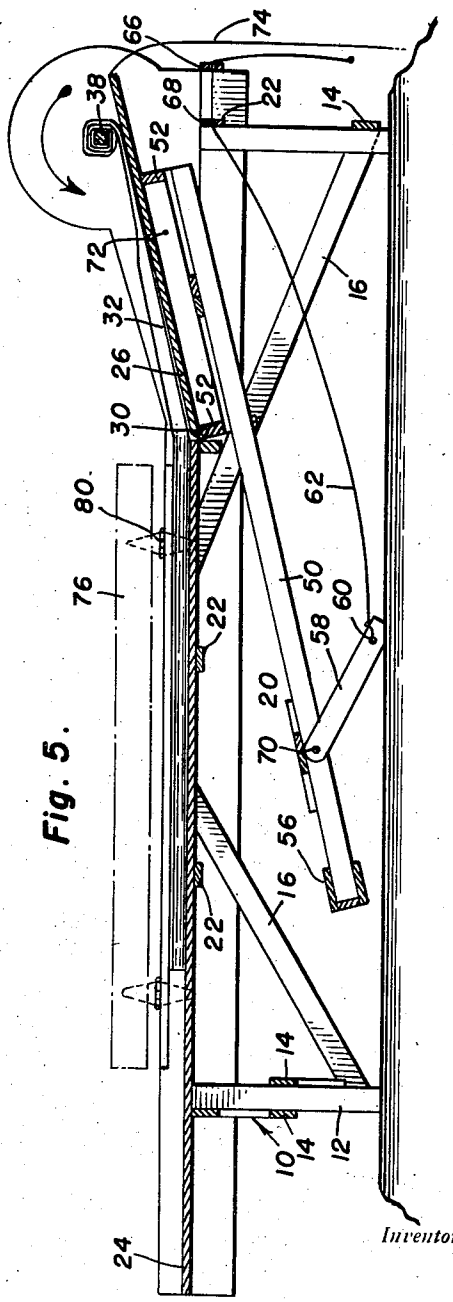


Fig. 5.

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COTTON SAMPLE WRAPPING TABLE

Filed March 24, 1947 3 Sheets-Sheet 3

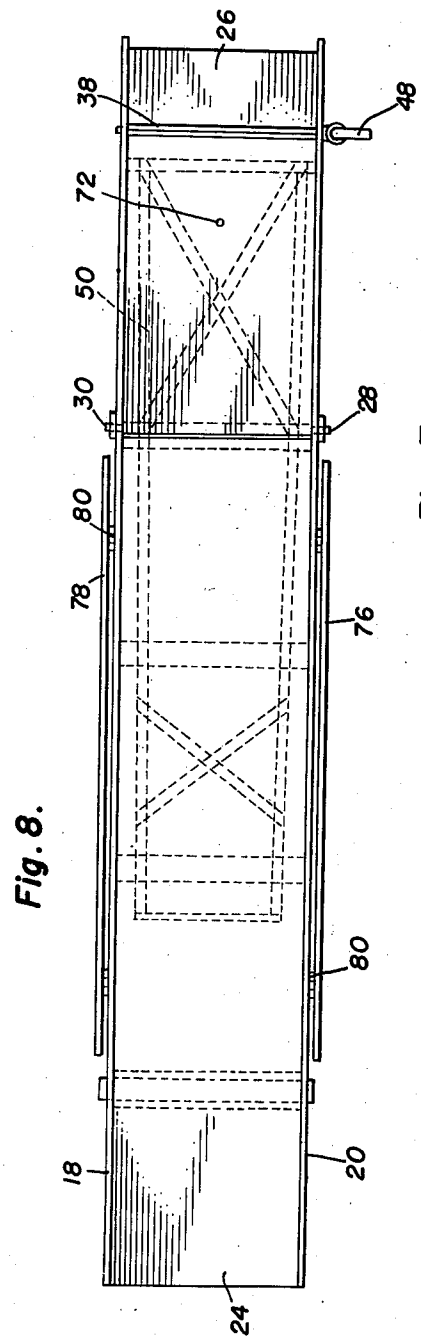


Fig. 8.

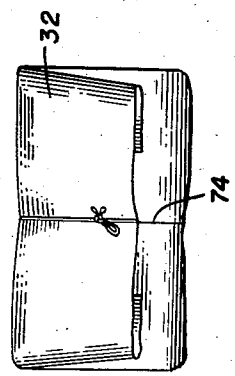


Fig. 7.



Fig. 6.

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UNITED STATES PATENT OFFICE

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COTTON SAMPLE WRAPPING TABLE

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Application March 24, 1947, Serial No. 736,714

5 Claims. (Cl. 53—51)

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This invention appertains to new and useful improvements in wrapping devices especially adapted to wrap samples of cotton or other similar material in a neat, firm package for either shipment or storage.

An object of this invention is to provide a device for neatly wrapping samples in varied selected densities.

Another object of this invention is to provide baffle and resistance producing means for guiding and compressing a sample prior to wrapping.

A further object of this invention is to provide improved winding means therein.

A still further object of this invention resides in the provision of novel string retaining means for use in packaging samples.

A still further object of this invention is to provide a device which is simple in construction, efficient in operation and which is capable of wrapping samples in an improved, smooth cylindrical package.

Ancillary objects as well as those specifically pointed out hereinabove, will become apparent in following the description of the preferred embodiment of the present invention, illustrated in the accompanying drawings, wherein:

Figure 1 is a perspective view of the preferred form of the present invention, showing a conventional sample web containing cotton therein;

Figure 2 is a transverse sectional view of the invention disclosed in Figure 1 and taken substantially on the line 2—2 thereof and in the direction of the arrows;

Figure 3 is a perspective view of a detail of construction illustrating the preferred winding means forming part of the present invention;

Figure 4 is a longitudinal sectional view of the present invention with the sample removed;

Figure 5 is a longitudinal sectional view of the preferred form of the present invention showing a sample partially wrapped;

Figure 6 is an end view of the finished or wrapped package;

Figure 7 is a detail view of the package shown in Figure 6, and

Figure 8 is a plan view of the preferred form of the present invention disclosed in Figure 4.

Referring now in detail to the illustrated preferred embodiment of the present invention, like reference characters are used throughout to indicate similar elements thereof.

The prime purpose of this invention is to wrap samples of cotton or other material neatly and in a firm cylindrical package. This invention has been devised to permit a single person to successfully operate the invention.

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A legged base, generally indicated at 10, is provided as a supporting member for various components of the preferred embodiment of the present invention. The said legged base 10 is composed of a plurality of legs 12 provided with suitable cross members 14, added for strength. Diagonal strengthening members 16 are also provided for this purpose. Longitudinal side members 18 and 20 are provided on said leg base, forming a part thereof. Transverse cross members 22 assist in forming a substantial foundation for the chute 24 which is provided thereon.

An extension 26 is pivoted to the said longitudinal side members 18 and 20 by conventional stub shafts 28 and 30 respectively. The said extension 26 forms a continuation of the said chute 24. It is apparent from an inspection of Figure 5 that the chute cooperating with the extension provide a bed adapted to receive a web member 32 adapted to receive samples of cotton and the like therein. The said web member is composed of a paper or fabric member having inwardly extending marginal folds, which folds are bent over a second time at one end thereof. Received in the space between said marginal folds is a plurality of samples 34 which are to be packaged.

A pair of aligned apertures are provided in said longitudinally extending members 18 and 20 and are adapted to removably journal a winding rod 36 therethrough. The preferable construction of said rod is a simple bar 38 rectangular in cross section and having a reduced shank portion 40 at one end thereof adapted to be used as a bearing. A conventional T-fitting 42 is provided opposite said reduced portion 40 and has a substantially U-shaped actuating rod 44 extending through said T member. The legs 46 and 48 of said U-shaped member are adapted to be used as handles. It is apparent from an inspection of Figure 1, that the double folded end of the said sample bearing webbing is adapted to be received on the rod 38 and further the rod is adapted to be actuated thereby winding said sample bearing member cylindrically thereabout.

As mentioned hereinabove, the said extension 26 is pivoted about the stub shafts 28 and 30. This along with certain associated mechanism forms an important part of the present invention. Accordingly, it shall be described herein now. A truss 50 is rigidly secured to the back surface of said extension 26 through the medium of suitable cross members 52. Conventional screws or other fastening means may be used to secure said truss to said extension. As shown in Figure 2, the preferable securing means are screws 54. A counterweight retaining means or

shelf 56 is provided on said truss opposite the end bearing of said extension. The construction of this counterweight retaining means is simply a plurality of members forming a receptacle or box-like construction. Any suitable ballast may be used in the said counterweight securing means. Adjacent the said means 56 is a pair of legs 58 pivotally mounted on said truss. An aperture 60 is provided adjacent the bottom of said legs and is adapted to receive a draw string 62 in fixed relation therethrough. A bevel edge is provided adjacent said aperture and on the side of the said leg. This edge is indicated at 64 and is adapted to engage the floor surface in certain predetermined positions of the said truss 50. The draw string 62 mentioned hereinabove extends through suitable apertures 66 and 68 provided through cross members 22. It is apparent that upon actuation of said draw string 62, the legs 58 will be pivoted about their associated pivot rod 70.

An aperture 72 is provided in the said extension 26 at about the longitudinal center of said rod 38. A binding string 74 may be mounted at one end thereof, slipped through said aperture 72 and extended beyond said extension. This binding string is adapted to be wound around the packaged item at a predetermined time.

A pair of guides or friction conducive means 76 and 78 respectively are hingedly mounted to the said longitudinal side members 18 and 20. Suitable conventional hinges 80 are used in mounting said longitudinal members.

Operation

The operation of this invention is as follows: the paper guide or weight means 76 and 78 are swung down on the outside of the table. The weighted end of said truss 50 is supported in its highest position through the medium of the legs 58.

The end of a length of bailing cord 74 is mounted and placed through the appropriate aperture 72. The free end of the said cord is then free to hang over the said extension 26.

The webbing or wrapping means 32 is laid on the chute and extension, the marginal edges of said webbing being infolded to retain samples therein. Then the said resistance producing means and baffle means are turned on top of said marginal folds to hold the sample in place. The free end of the webbing is then folded a second time and placed around the rod 38. The draw string 62 is then pulled permitting the truss 50 to fall downward about the pivots 30 and 28. The free end of the said extension 26 is then resting against the webbing which is wound around the rod 38. It is here noted that if so desired, the truss 50 may be actuated before the said webbing is wound around said rod 38 thereby affording a clamp between the extension 26 and the rod 38 for holding said webbing while actually starting or winding it around said rod. The crank handle 44 is then actuated thereby winding the package of samples in a neat and orderly cylindrical roll. As the size of the roll grows larger, the extension is forced down. It is apparent that the pressure of the said extension against the roll tends to keep a tightly wound article in place on said rod 38. It is further apparent that the above mentioned pressure may be varied by adjusting the mass of counterweights used at 56. It is here noted that this invention contemplates use of a single sliding weight adapted to be moved longitudinally of said truss 50 thereby varying the effective moment arm about the pivot 30 which obviously will increase or decrease the pressure mentioned hereinabove. When the roll is completely wrapped, the aperture 72 will be exposed and consequently the string may be removed from said roll and wrapped around the resulting bundle or package in order to bind the same.

To remove the package from the invention, turn the double handled crank 44 in a direction opposite from the binding direction, which causes the webbing to loosen its grip on the square bar 38. Then, the bar 38 may be withdrawn from the center of the packaged product.

The resulting package is both neat in appearance, firmly packed and suitable for either shipment, storage or sales purposes.

While there has been described but a single preferred embodiment of the present invention, it is apparent to those skilled in the art, that various changes including omissions and additions may be made herein without departing from the spirit of the invention.

Consequently, limitation is sought only in accordance with the scope of the following claims.

Having thus described the instant invention what is claimed as novel and improved is as follows:

1. A sample wrapping device comprising a slide having sides and an extension of said slide pivoted to said sides at one end of said slide in close proximity thereto, means rotatively secured to said sides and positioned above said extension for pulling a sample containing wrapper over said slide and said extension and for winding a sample containing wrapper into assembled form, and guides hingedly secured to said sides and swingable to a position over said slide to exert a force on the top of a sample containing wrapper as it is being pulled over said slide.

2. A sample wrapping device comprising a slide having sides and an extension of said slide pivoted to said sides at one end of said slide in close proximity thereto, means rotatively secured to said sides and positioned above said extension for pulling a sample containing wrapper over said slide and said extension and for winding a sample containing wrapper into assembled form, a longitudinal member attached at one end to said extension substantially parallel thereto, a leg pivoted to said member adjacent the opposite end to support said longitudinal member substantially horizontally, and means attached to said leg for pivotally moving said leg and to move said extension to a position of non-parallelism with relation to said slide.

3. A sample wrapping device comprising a slide having sides and an extension of said slide pivoted to said sides at one end of said slide in close proximity thereto, means rotatively secured to said sides and positioned above said extension for pulling a sample containing wrapper over said slide and said extension and for winding a sample containing wrapper into assembled form, a longitudinal member attached at one end to said extension substantially parallel thereto, a leg pivoted to said member adjacent the opposite end to support said longitudinal member substantially horizontally, means attached to said leg for pivotally moving said leg and to move said extension to a position of non-parallelism with relation to said slide, and guides hinged to said sides and swingable to a position over said slide to exert a force on the top of a sample containing wrapper as it is being pulled over said slide.

4. The combination of claim 3 and said extension having an aperture therein to conduct a sample containing wrapper string therethrough.

5. A sample wrapping device comprising a slide, an extension pivoted to said slide and forming a continuation of said slide, means secured to said extension for pivotally adjusting said extension, means mounted on said slide for winding a sample containing wrapper, and said winding means being vertically spaced from said extension, and means pivoted to said slide for guiding a sample containing wrapper while the wrapper winding means is operative.

LEO BRELAND ADAMS.

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