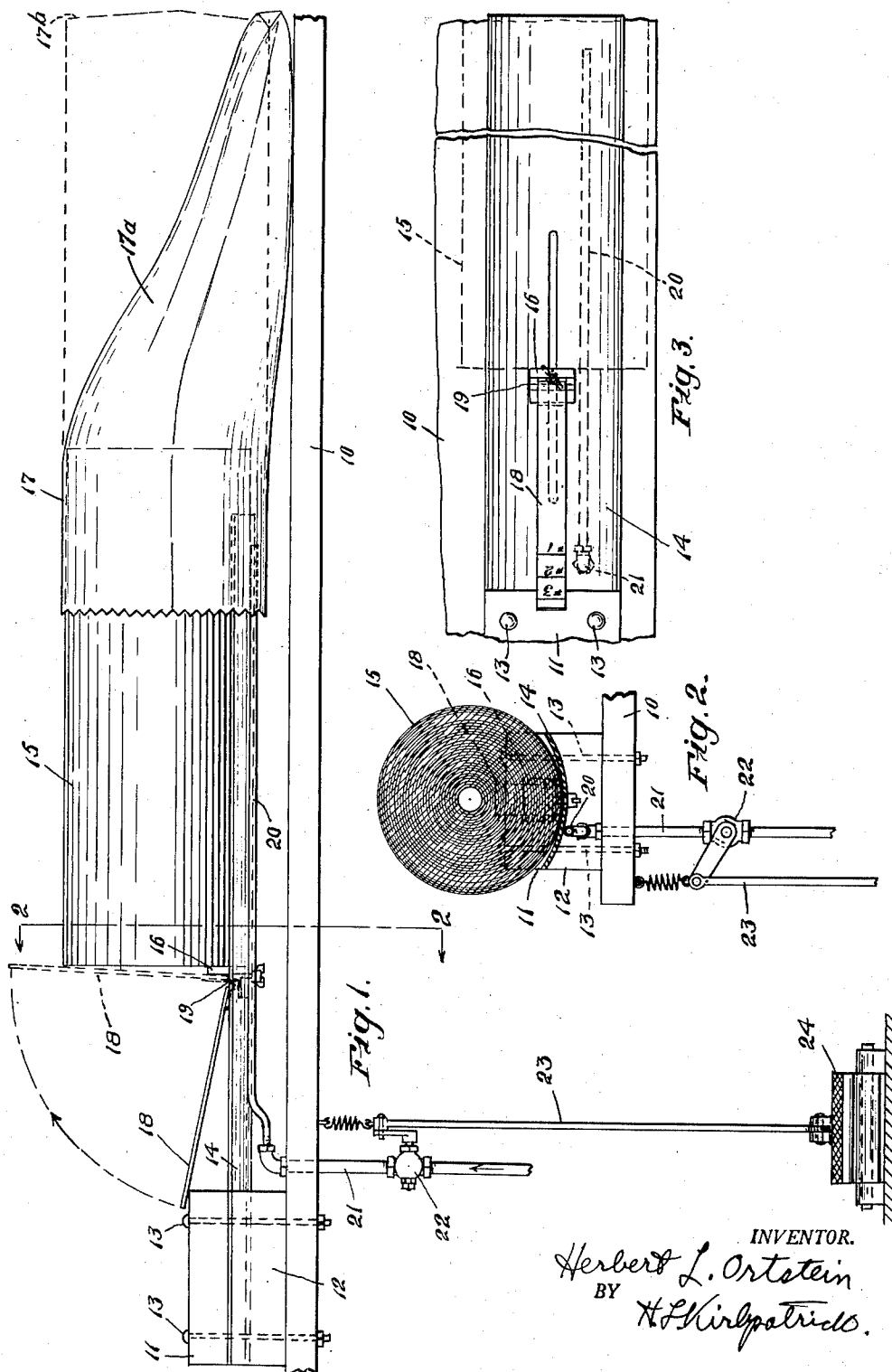


Sept. 18, 1951

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APPARATUS AND PROCESS FOR INCASING CYLINDRICAL  
ARTICLES IN PAPER BAGS  
Filed May 6, 1946

**2,568,593**



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## UNITED STATES PATENT OFFICE

2,568,593

APPARATUS AND PROCESS FOR INCASING  
CYLINDRICAL ARTICLES IN PAPER BAGSHerbert L. Ortstein, Andover, Mass., assignor to  
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Application May 6, 1946, Serial No. 667,539

5 Claims. (Cl. 226-18)

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This invention relates to an apparatus and process for encasing cloth rolls or bolts or other similar cylindrical articles in paper bags.

One object of this invention is to provide an efficient and compact apparatus by the use of which cloth rolls or bolts may be encased in bags, preferably of paper. Another object is to produce around a cloth bolt a sturdy cylindrical wrapping of a neat and compact appearance. The bags are preferably made of two thicknesses of paper, such as Kraft paper, thereby forming a stout wrapper not easily damaged or torn either while the bolt is being encased in the bag or by subsequent handling.

Among the features of this invention are a support or table, a platform, having preferably a concave upper surface, and securely fastened at one end to said table and extending clear of said table horizontally forward to support the bolt while it is being covered at least in part by the bag, an adjustable stop for positioning the bolt on the platform, a graduated bar to determine the diameter of the bolt and thereby the size of bag required, and a supply of compressed air conducted by a pipe to inflate the bag after its mouth has been drawn over the end of the bolt so that the rest of the bolt may easily be encased in the bag.

In the drawings:

Fig. 1 is a side view in elevation of the apparatus;

Fig. 2 is a front-end view in elevation of the apparatus on line 2-2 of Fig. 1 viewed in the direction of the arrows, and

Fig. 3 is a top view.

To the support or table 10 is secured by blocks 11, 12 and bolts 13 one end of a platform 14 made of a curved piece of thin metal to provide a concave upper surface. The platform extends forward horizontally above the table a distance sufficient to support a cloth bolt 15, which is engaged by the concavity of the platform surface and thus held from lateral displacement. A stop 16, adjustably mounted lengthwise on the platform by a wing nut in a slot in the bottom of the platform, positions the cloth bolt on the platform and prevents the bolt from moving rearwardly when a bag 17 is drawn over it. A graduated bar 18 is secured to the rear side of stop 16 by a hinge 19 and may be raised to measure the diameter of the bolt to determine the size of the bag to be selected.

To the under-surface of platform 14 is secured an air line or pipe 20 connected to a compressed air supply line 21 and leading therefrom under

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the platform to a point adjacent to its forward end. Line 21 is provided with a valve 22 connected by a rod 23 to a treadle 24.

In practice the cylindrical cloth bolt, suitably taped to secure its loose edge, is placed on the concave upper surface of platform 14 with its rear end against the stop 16. Bar 18, placed against the end of the bolt, measures the diameter of the bolt so that the operator may select the proper size of bag. The mouth of bag 17 is then manually drawn over the outer end of the bolt, over the end of the platform 14 and over the end of the pipe 20. The end of the bolt provides an approximate closure of the remainder of the bag thereby forming a chamber 17a in the remainder of the bag. The operator depresses treadle 24 to open valve 22 to permit a blast of compressed air to pass through air line 21 and the pipe 20, the end of which is inside the mouth of the bag. The air enters the chamber 17a under sufficient pressure, such as 75 pounds per square inch, to inflate the remainder of the bag while the bolt prevents the air from escaping unduly from the mouth of the bag so that there is sufficient air pressure within the chamber to overcome the stiffness of the paper of the bag and form it into a cylinder 17b. The operator may then easily draw the bag completely over the cloth bolt, or the cloth bolt may be pushed by him into the opened bag. The bagged bolt may be removed endwise beyond the platform, preferably onto that part of the table which extends beyond the end of the platform, and the mouth of the bag may be closed and fastened by any suitable means.

This invention may be used to encase any cylindrical articles, other than cloth bolts, in bags made of paper or other suitable material.

Having described my invention, I claim:

1. An apparatus for encasing a cylindrical article in a bag comprising a support, an uncovered platform secured at one end to said support and extending clear of said support and adapted to support said article thereupon with an end portion of the article uncovered, a source of compressed air, a pipe connected thereto and having an opening adjacent to the end of said platform supporting said article, and means to control the supply of compressed air from said source to inflate said bag when the mouth thereof has been drawn over the uncovered end portion of said article, said opening and the end of said platform adjacent to said opening.

2. An apparatus for encasing a cylindrical article in a bag comprising a support, an uncovered

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platform secured at one end to said support and extending clear of said support and having a laterally concave upper surface adapted to support said article thereupon with an end portion of the article uncovered, a source of compressed air, a pipe connected thereto and secured to said platform and having an opening adjacent to the end of said platform supporting said article, means on the upper surface of said platform to position said article lengthwise thereon, and means to control the supply of compressed air from said source to inflate said bag when the mouth thereof has been drawn over the uncovered end portion of said article, said opening and the end of said platform adjacent to said opening.

3. An apparatus for encasing a cylindrical article in a bag comprising a support, an uncovered platform secured at one end to said support and extending clear of said support and having a laterally concave upper surface to retain said article on said platform, a stop on said platform longitudinally adjustable thereon and adapted to position said article on said platform, a source of compressed air, a pipe connected thereto and secured to said platform and having an opening adjacent to the end of said platform supporting said article, a valve to control said source and means to actuate said valve to inflate said bag when the mouth thereof has been drawn over an end portion of said article, said opening and the end of said platform adjacent to said opening.

4. The process of enclosing a cylindrical article in a paper which comprises supporting said arti-

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cle with an upper end portion thereof uncovered, covering said end portion of said article with the mouth of the bag to provide a substantially closed chamber in the remainder of the bag, inflating said remainder of the bag by introducing air under pressure into said chamber and introducing the remainder of said article into said bag.

5. The process of enclosing a cylindrical article in a paper bag which comprises supporting said article with an upper end portion thereof uncovered, covering said end portion of said article with the mouth of the bag to provide a substantially closed chamber in the remainder of the bag, inflating said remainder of the bag by introducing air under pressure into said chamber to form said bag into a cylinder and introducing the remainder of said article into the inflated cylindrical bag.

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