B. E. WHITE.

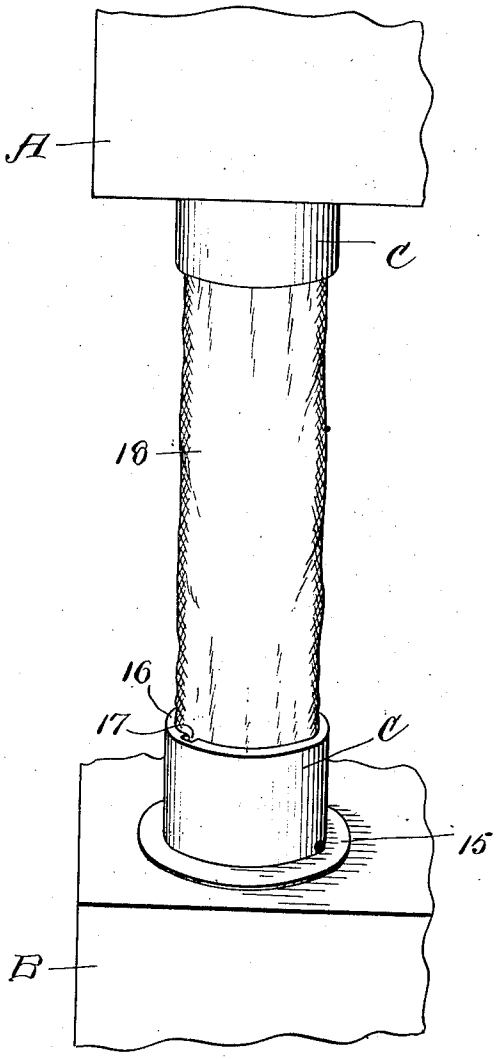
SIFTER AND BOLTER.

APPLICATION FILED DEC. 20, 1913.

1,099,833.

Patented June 9, 1914.

Fig. 1.



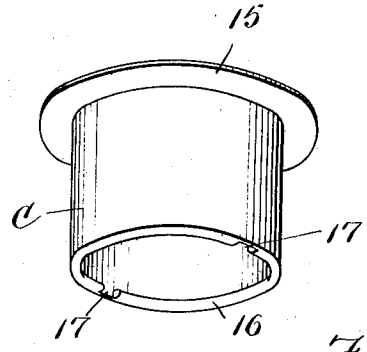


Fig. 2.

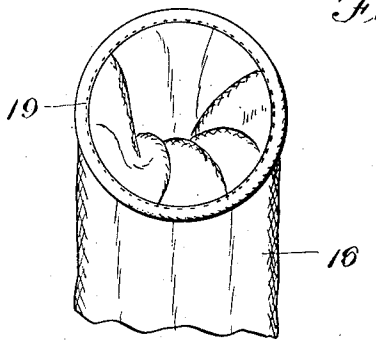


Fig. 3.

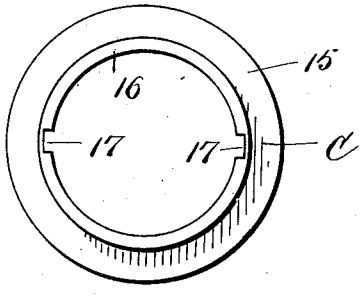
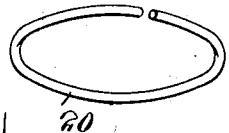


Fig. 4.



Witnesses

E. R. Ruppert.

Wm. Dagger.

Inventor

B. E. White

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UNITED STATES PATENT OFFICE.

BURTON E. WHITE, OF THREE BRIDGES, NEW JERSEY, ASSIGNOR TO THE WOLF COMPANY, OF CHAMBERSBURG, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

SIFTER AND BOLTER.

1,099,833. Specification of Letters Patent. **Patented June 9, 1914.**

Application filed December 20, 1913. Serial No. 807,993.

To all whom it may concern:

Be it known that I, BURTON E. WHITE, a citizen of the United States, residing at Three Bridges, in the county of Hunterdon and State of New Jersey, have invented new and useful Improvements in Sifters and Bolters, of which the following is a specification.

This invention relates to sifters and bolters, and it has particular reference to sifters and bolters of the reciprocatory and gyratory types wherein flexible tubes known as stocking legs are utilized for the purpose of transferring material from the upper sieve boxes to subjacent receptacles or parts of the machine.

The present invention has for its object to produce simple and improved means for connecting the stocking legs with the sieve boxes or receptacles in such a manner as to reduce the liability of the parts becoming accidentally separated.

A further object of the invention is to produce a simple and improved construction which will enable the stocking legs to be very readily applied and removed when necessary for any reason.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawing has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

In the drawing,—Figure 1 is a perspective view illustrating the two thimbles connected by a stocking leg constructed in accordance with my invention. Fig. 2 is a perspective view of one of the thimbles showing also one end of the stocking leg separated therefrom and ready to be assembled therewith. Fig. 3 is a plan view of one of the thimbles. Fig. 4 is a perspective view of the resilient hoop which forms a part of the device.

Corresponding parts in the several figures are denoted by like characters of reference.

The upper and lower receptacles, parts of which have been shown at A, B are each provided with thimbles or spouts C, said thimbles consisting of cylindrical bands made of sheet metal and provided at one end with an outwardly extending flange 15 for attaching to the receptacle and at its other end with a narrow inwardly extending flange 16, which latter is provided at diametrically opposite sides with notches 17.

The stocking leg 18 is a flexible tubular duct of textile or other suitable material, said duct being provided at each end with a hem 19 in which a split hoop 20 is inserted, said hoop and stocking leg being of such diameter as to fit snugly within the thimble C.

In assembling the stocking leg with the thimbles C, the split hoop contained in the hem at the end thereof is presented edgewise to the outer end of the thimble and is inserted through the notches 17, after which the projecting end of the stocking leg is placed under tension, thus turning the hoop to a position approximately in the plane of the flange 16 wherein it will be securely supported. The two ends of the stocking leg being similarly connected with two opposed thimbles, it follows that the connection between the receptacles A and B will be properly established. Should it at any time be desired to remove the stocking leg, this may be quickly and easily accomplished by reversing the operation.

It will be seen that I have provided a device of very simple and inexpensive construction which will enable stocking legs to be connected with parts of bolting machines in an absolutely secure manner, making it impossible for the ducts formed by the stocking legs to become detached or disengaged from the moving parts when in operation. At the same time, the construction is of such a nature as to enable the parts to be very quickly and conveniently disassembled when desired.

Having thus described the invention, what is claimed as new, is:—

1. The combination with a thimble having a narrow flange provided with diametrically opposite notches, of a flexible tubular

duct having a hem, and a hoop in said hem adapted to pass through the notches and to be supported on the flange of the thimble.

2. A thimble having a narrow interior annular flange provided with diametrically opposed notches, in combination with a flexible tubular duct having a hoop adapted to pass through the notches and to maintain the duct in expanded condition within the thimble.

3. In a device of the class described, a thimble having an interior flange provided with diametrically opposite notches, in combination with a flexible duct having a hem, and a split expansion hoop contained in said hem, said hoop being adapted to pass edgewise through the notches and to be supported on the flange within the thimble, thereby maintaining the duct in expanded condition.

4. In a device of the class described, upper and lower receptacles provided with opposed thimbles, each of said thimbles having an interior flange provided with diametrically opposed notches, in combination with a flexible duct having at each end a hem and expanding hoops in said hems adapted to pass edgewise through the notches in the flanges of the opposed thimbles and to be supported on said flanges, thereby maintaining the duct in expanded condition to establish communication between the upper and lower receptacles.

In testimony whereof I affix my signature in presence of two witnesses.

BURTON E. WHITE.

Witnesses:

JOHN L. CONNET,

A. C. HULSIZER.