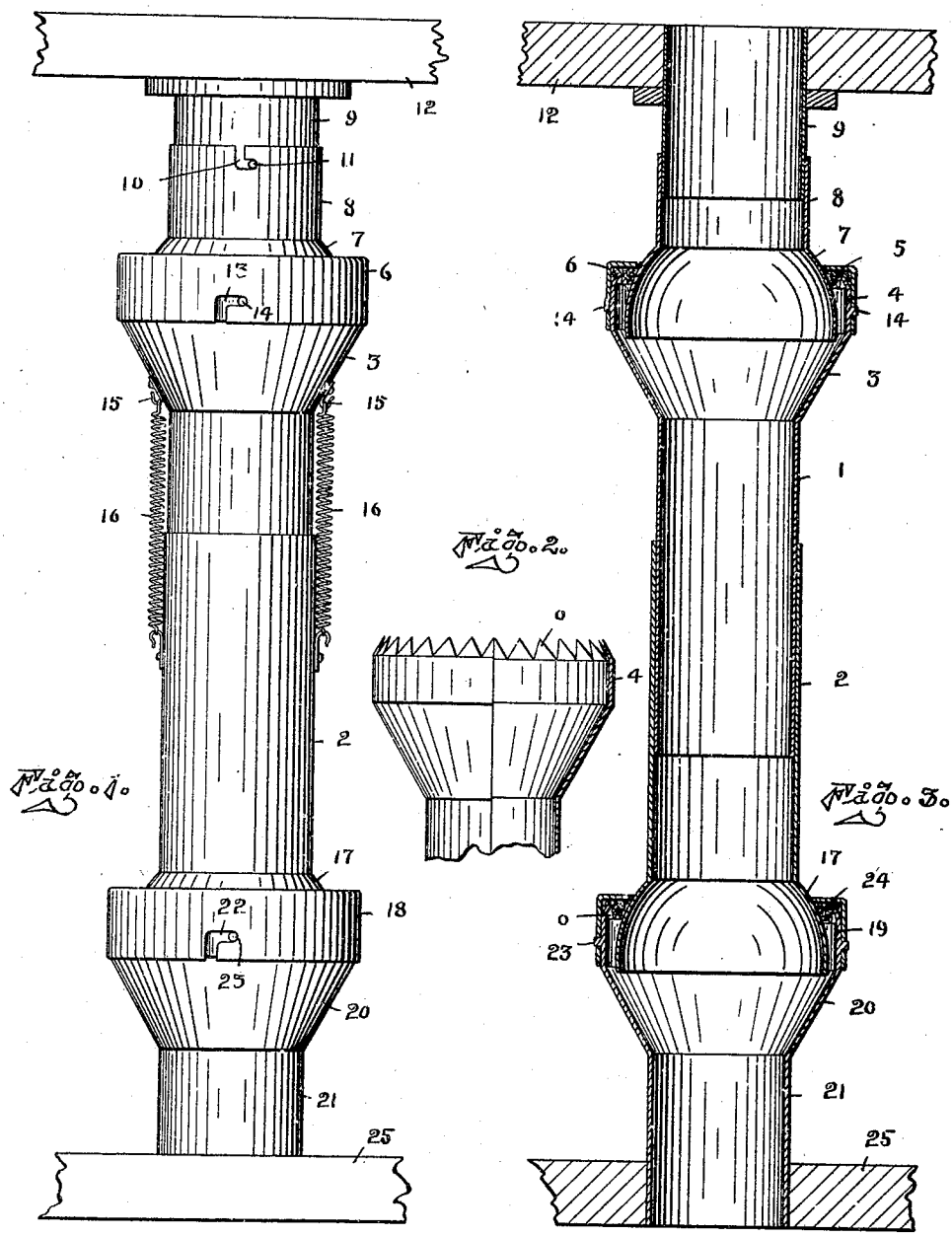
Dec. 26, 1922. 1,439,714

L. T. SEVERSON.
SIFTER SOCK.
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WITNESSES:
M. E. Fay.
L. C. Browson.

INVENTOR
Louis T. Severson.
BY Geo. Stevens.
ATTORNEY

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UNITED STATES PATENT OFFICE.

LOUIS T. SEVERSON, OF DULUTH, MINNESOTA.

SIFTER SOCK.

Application filed April 12, 1920. Serial No. 373,075.

To all whom it may concern:

Be it known that I, LOUIS T. SEVERSON, a citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Sifter Socks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to telescopic spouts for use in connection with sifting mills, which are designed especially to take the place of the common cloth stocking used for conveying granular material such as flour or the like from the vibrating portion of a sifting mill to a stationary or other receptacle.

The principal object of the invention is to provide a simple and durable spout of the character described and one that will answer every purpose of the cloth stocking.

Other objects and advantages will appear in the further description of the invention.

Referring to the accompanying drawings forming part of this application and in which like reference characters indicate like parts:

Fig. 1 is a side elevation of one of my improved spouts.

Fig. 2 is an end elevation partly in section of one of the serrated ends of the telescopic sections of the spout.

Fig. 3 is a vertical central section of Fig. 1.

The main body portion of the spout comprises the internal section 1 and the external section 2, the former being flared outwardly at its upper end as at 3 and terminating in an annular band-like portion 4, the upper edge of which is serrated or toothed as at 0, said serrations being bent slightly inwardly as distinctly shown in Fig. 2 for the purpose of impinging and holding securely in place the annular felt washer indicated at 5, the felt washer having previously been placed in the ring cap 6, which latter has a central circular opening therein for the reception of the approximately semi-spherical end 7 of the sleeve 8 to which it is securely fixed. The sleeve 8 is removably attached to the nipple 9 by suitable bayonet slots 10 and pins 11 as shown in Fig. 1, or any other convenient means desired, and the nipple 9 is secured to the vibrating portion 12 of the mechanism to which the spout is attached.

The diameter of the sleeve 8 is somewhat less than the opening in the top of the cap 6 so that a portion of the ball-shaped end appears above the cap 6 when suspended therefrom, thus forming a joint somewhat similar to a ball and socket joint.

The cap 6 holds suspended therefrom all that portion of the spout therebelow, by means of the bayonet slots 13 in which the pins 14 in the band 4 register, and such connection is easily severed by the reverse turning of the cooperative parts, as is obvious.

On the diametrically opposed outer walls of the flaring portion 3 are fixed suitable hooks 15 from which are suspended contractile spiral springs 16, the lower ends of which are engaged in hooks similar to the hooks 15, fastened to the opposite sides of the telescopic sleeve 2, and this latter has formed upon the lower end thereof a substantially semi-spherical member 17 similar to the member 7, which is surrounded by a cap 18 similar to the cap 6, which is attached to the upper termination 19 of the flaring end 20 of the sleeve 21 by bayonet slots 22 and pins 23, in all respects similar to the uppermost connection of the tube just described.

There is a felt washer 24 carried within the cap 19 which engages the outer surface of the ball 17, the same being held in place by means of the serrated upper edge of the termination 19 of the depending sleeve 21 which is attached to the fixed portion 25 of the stationary receiving receptacle whatever it may be.

From the foregoing it is evident that I have provided a flexible tubular connection between a reciprocable member and a stationary member said connection being composed of a plurality of rigid portions the centermost ones of which are vertically yieldable to accommodate varying distances intermediate of the reciprocable and stationary members.

In putting my invention into practice it is intended to make the balls 7 and 17 of a hard smoothly surfaced metal so that frictional resistance with the felt or other like washers is as little as possible and still form a tight readily yieldable joint and by provid-

ing convenient means for separating the parts of the device either or both of the washers 5 and 24 may be easily renewed when worn.

I am aware that somewhat similar devices have been employed in the art but believe that the specifically disclosed features in my invention which are particularly set forth in the appended claims are a material improvement over that previously known.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A resilient tube of the character described comprising in combination separable tubular connections, a ball and socket joint in one of the connections, a cap member surrounding the ball of the joint and carrying a resilient washer therein for engagement with the ball, a tube extending within the cap having its uppermost edge serrated for holding engagement against the washer.

2. A resilient tube of the character described comprising in combination separable tubular connections, a ball and socket joint in one of the connections, a cap member surrounding the ball of the joint and carrying a resilient washer therein for engagement with the ball, a tube extending within the cap having inwardly protruding means for engagement with the washer.

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

LOUIS T. SEVERSON.

Witnesses:
ELLEN THEORIN,
S. GEO. STEVENS.