No. 649,315. Patented May 8, 1900.

A. KLESSE & E. BÖHM.

APPARATUS FOR HOLDING OPEN MOUTHS OF SACKS.

(Application filed May 24, 1898.)

(No Model.)

Fig. 1.

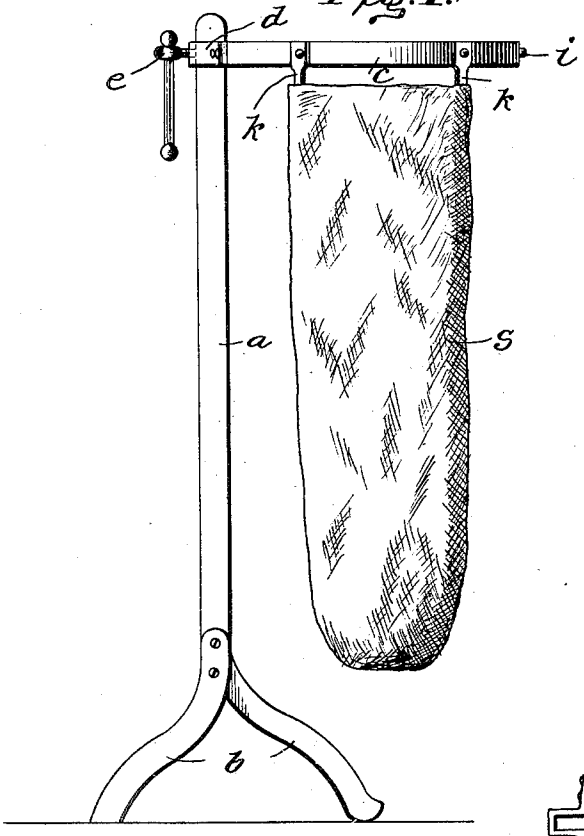


Fig. 3.

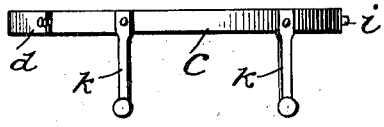


Fig. 4.

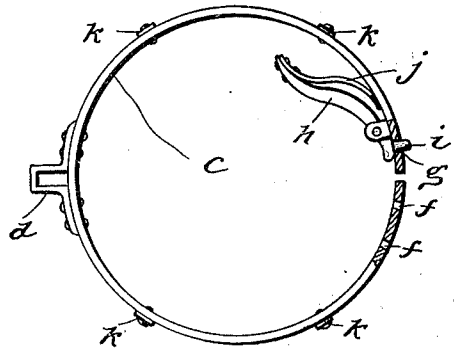
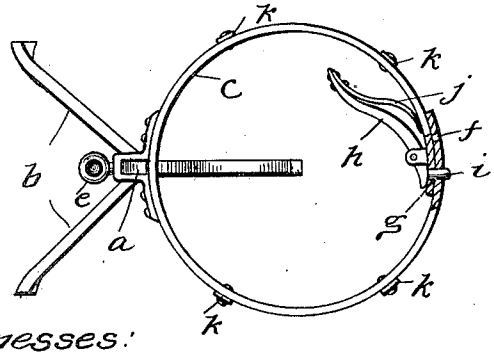


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

AUGUST KLESSE, OF ECKERSDORF, AND ERNST BÖHM, OF KLEIN MÖHLTEN, GERMANY.

APPARATUS FOR HOLDING OPEN MOUTHS OF SACKS.

SPECIFICATION forming part of Letters Patent No. 649,315, dated May 8, 1900.

Application filed May 24, 1898. Serial No. 681,579. (No model.)

To all whom it may concern:

Be it known that we, AUGUST KLESSE, residing at Eckersdorf, and ERNST BÖHM, residing at Klein Möhlten, in the Kingdom of Prussia, Germany, subjects of the King of Prussia, have invented certain new and useful Improvements in Apparatus for Holding Open the Mouths of Sacks, (for which we have applied for patents in England, dated April 25, 1898, No. 9,479; in France, dated April 27, 1898, and in Belgium, dated April 27, 1898,) of which the following is a specification.

This invention relates to a device for holding open the mouth ends of sacks while the latter are being filled; and it consists of a column or stand provided with a foot or feet upon which the column or stand is adjustably mounted, an expansible bag-supporting split ring having a series of depending pins or arms which are arranged to enter the mouth end of the bag to hold the latter open, and in means for holding the said expansible split ring in a contracted condition to reduce the size or diameter thereof, whereby the bag may be more readily placed about the ring and the arms which depend therefrom.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of our complete device, showing a bag supported thereby. Fig. 2 is a top plan view of the bag-supporting ring, shown as contracted ready to receive a bag. Fig. 3 is a side elevation of the same, and Fig. 4 is a top plan view of the split ring in its expanded position.

Referring now to the drawings, the reference-letter *a* designates a suitable stand or column of any preferred cross-sectional shape and provided at its lower end with feet *b*. In order to support the bag and hold the mouth end thereof open, we provide an expansible split ring *c*, which is provided with an eye or loop *d*, through which the column or stand *a* freely passes and upon which said ring may be supported at any desired elevation, the same being firmly held to the said column in its adjusted position by means of a suitable clamping-screw *e*. One end of the split ring is provided with two or more openings *f*, and the opposite end is provided with a single opening *g*, which latter opening may be caused to register with either of the other openings when the two ends of the ring are brought together and overlapped. To the inner side of the ring, at the end having the single opening, is pivoted a hand-lever *h*, the short end of which carries a lug or projection *i*, adapted to pass through the said single opening *g* in one end of the split ring and enter either one of the openings *f* in the opposite end of the ring to hold the said ring in a contracted condition when the ends are overlapped, as clearly shown in Fig. 2 of the drawings. A spring *j* acts by pressure to normally hold the lug or projection *i* in engagement with the single opening *g*. Supposing that the expansible split ring *c* is in its contracted condition, as shown in Fig. 2, it will be seen that by pressing the long end of the lever *h* toward the ring the lug or projection *i* will be drawn from its opening *f* in the overlapping end of the ring, and the two ends of the latter being thus freed the ring will immediately expand, whereby the diameter thereof will be increased, as clearly shown in Fig. 4.

The ring is provided around its circumference with a plurality of depending arms or pins *k*, which are caused to freely enter the open mouth of the bag when the ring is contracted, and when the said ring is allowed to expand, as above described, it will be seen that the said depending arms will immediately spread or spring outward into contact with the bag and support the latter from within with its mouth wide open ready for filling.

What we claim, and desire to secure by Letters Patent, is—

A device for holding open the mouth end of a sack, consisting of an expansible split ring the ends of which may be brought together and overlapped, one of such ends being provided with a single opening and the other end with a plurality of openings, bag-supporting arms depending from said ring, and a spring-actuated lever pivotally mount-

ed on the inner face of the ring adjacent to the single opening therein and provided at one end with a projection adapted to pass through the said single opening in one end of the ring and enter one of the openings in the other end of the ring when the two ends of the latter are overlapped to hold the ring in a contracted position, substantially as described.

In testimony whereof we have hereunto set our hands in the presence of two witnesses.

AUGUST KLESSE.
ERNST BÖHM.

Witnesses:
HEINRICH BÖHM,
HERMANN BARTSCH.