

No. 870,687.

PATENTED NOV. 12, 1907.

W. M. RENNE.
BAG HOLDER.

APPLICATION FILED APR. 17, 1907.

Fig. 1.

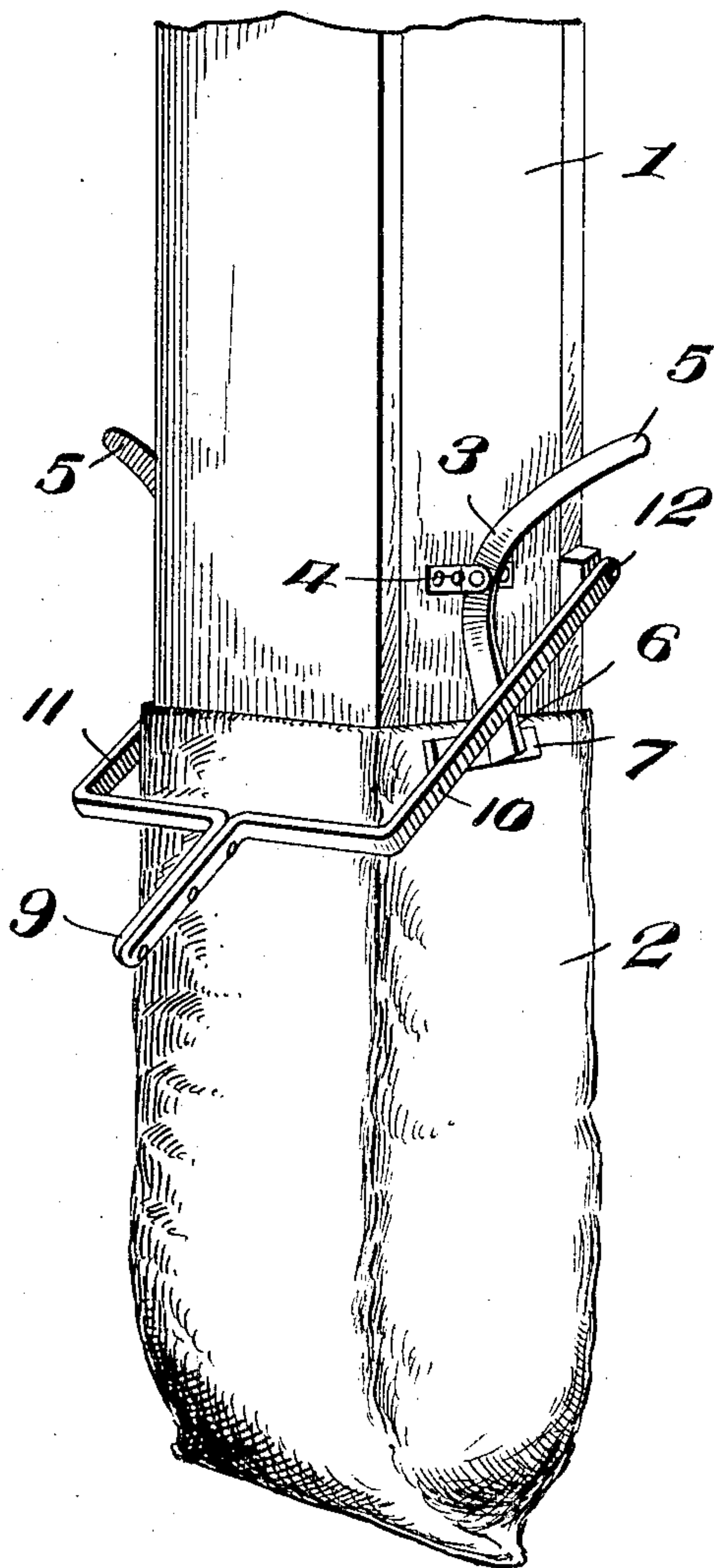


Fig. 2.

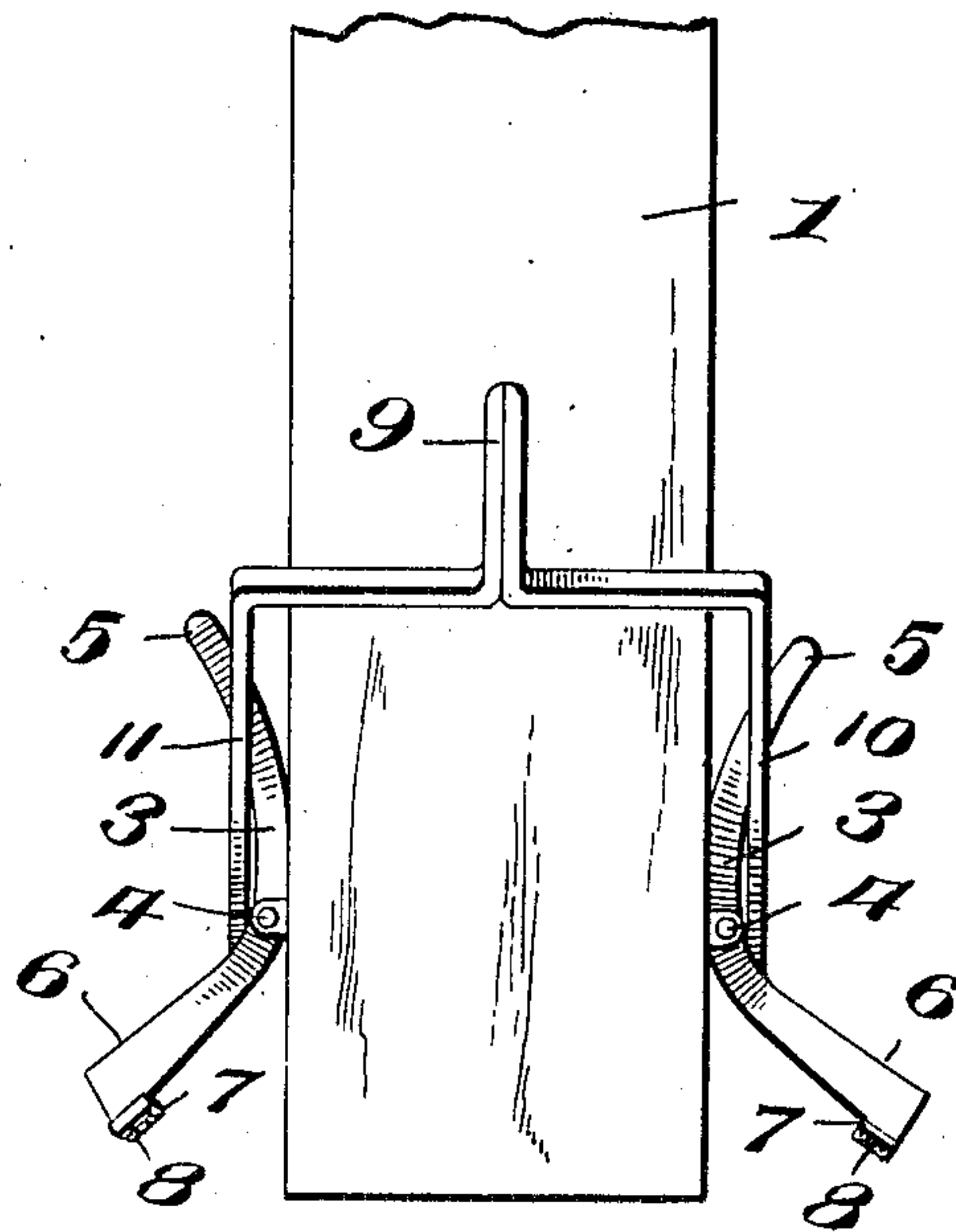
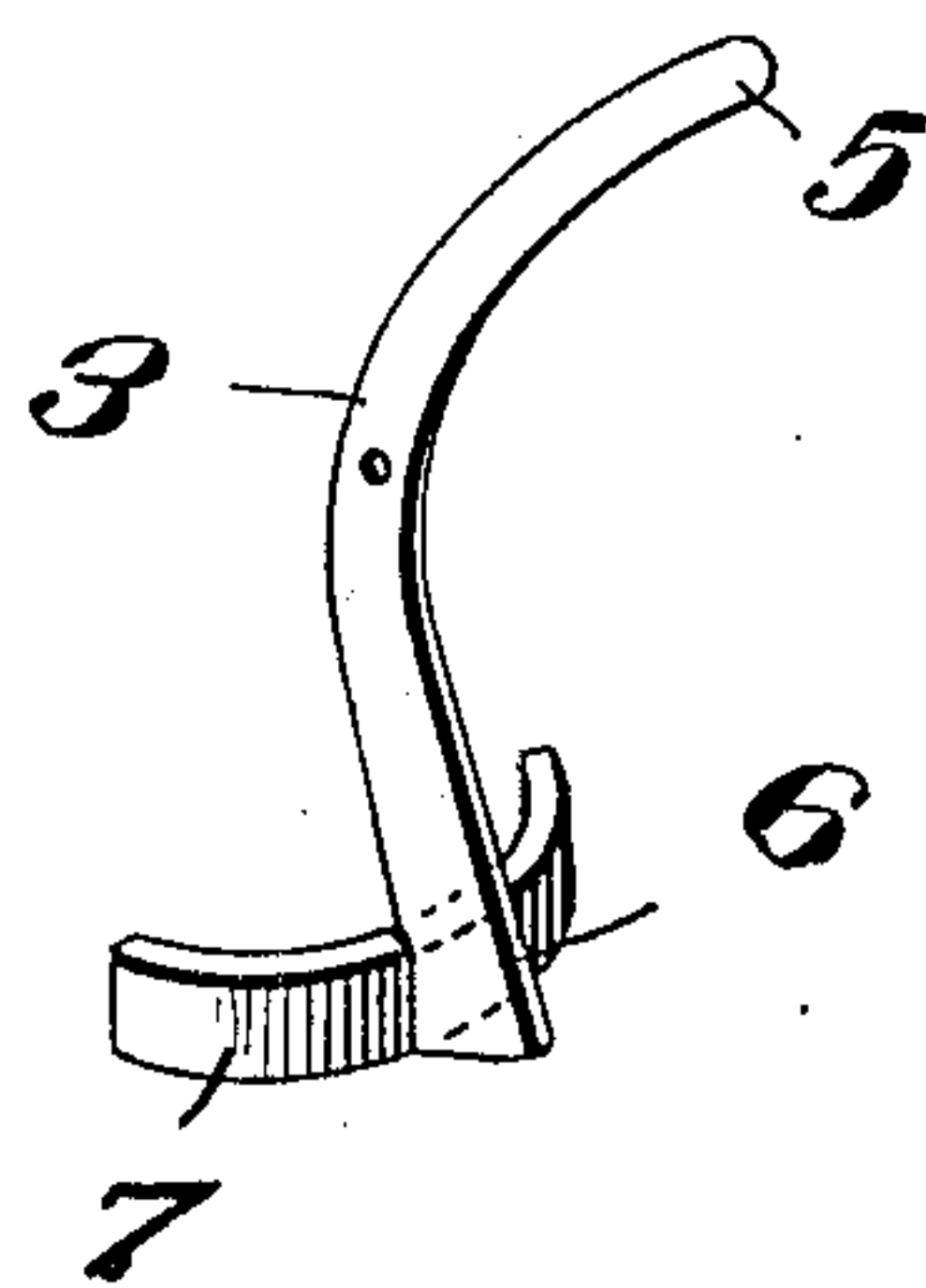


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM M. RENNE, OF BELVIDERE, ILLINOIS.

BAG-HOLDER.

No. 870,687.

Specification of Letters Patent.

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Application filed April 17, 1907. Serial No. 368,663.

To all whom it may concern:

Be it known that I, WILLIAM M. RENNE, a citizen of the United States, residing at Belvidere, in the county of Boone and State of Illinois, have invented certain new and useful Improvements in Bag-Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to new and useful improvements in bag holders, and more particularly to that class adapted to be used in connection with the open end of a chute, and my object is to provide a device of this class whereby a bag will be securely held in position over the lower end of the chute.

A further object is to so construct the parts of the device that the bag may be quickly placed in position over the end of the chute or removed therefrom.

A still further object is to provide means for directing the bag engaging parts of the device into or out of engagement with the bag.

Other objects and advantages will be hereinafter referred to, and more particularly pointed out in the claims.

In the accompanying drawings which are made a part of this application, Figure 1 is a perspective view of the lower end of the chute, showing my improved bag holding mechanism in operation thereon. Fig. 2 is an elevation of the chute showing the position of the parts of the bag holder when the bag is being placed upon or removed from the end of the chute, and, Fig. 3 is a detail perspective view of a slightly modified form of bag holding device.

Referring to the drawing in which similar reference numerals designate corresponding parts, 1 indicates a chute such as is commonly employed in conveying grain, food-stuffs, and the like, to a given point, and in order to catch the contents of the chute as it descends, I place over the lower end of the chute a bag 2 and in order to securely hold the bag in position on the end of the chute while the same is being filled, I provide my improved bag holding means which consists of a pair of arms 3 which are pivotally secured between ears 4 on opposite sides of the chute 1. The upper ends 5 of the arms 3 are curved outwardly from the pivot point of the arms, while the outer edges of the lower ends 6 of the arms are tapered outwardly from their pivotal point to their lower ends to render the same substantially wedge shaped. Secured to the inner edge of the end sections 6 at the extreme lower ends thereof are clamping plates 7, the inner faces of which are roughened to provide points 8, the object of said clamping plates being to engage and hold the bag, the upper end of the

bag being interposed between the clamping plates and the outer faces of the chute, and in order to positively direct the clamping plates into engagement with the bag, I provide a bifurcated lever 9, the bars 10 and 11 of which extend on opposite sides of the chute, and to the rear edge thereof, where they are pivotally secured to the chute by directing pivot pins 12 through the free ends of the bars 10 and 11, and into the chute, said pivot pins being substantially in a horizontal plane with the pivotal points of the arms 3. The bars 10 and 11 are spaced a sufficient distance apart to extend to the outside of the arms 3, so that when the lever 9 is lowered to the position shown in Fig. 1, the bars 10 and 11 will engage the tapered edge of the end sections 6, and force the clamping plates firmly against the faces of the chute, and thereby positively impinge the bag between the chute and the clamping plates, the points 8 preventing any possibility of the bag slipping. When, however, the bag is filled to the proper degree, the lever 9 is elevated to the position shown in Fig. 2, the bars 10 and 11 in their upward movement engaging the curved ends 5 of the arms 3, and moving the ends 6 of the arms outwardly or to the position shown in Fig. 2 thereby releasing the clamping plates from the bag, so that the bag can be readily removed from the lower end of the chute and another bag placed in position thereon, if so desired, when by again lowering the lever 9, the new bag will be positively engaged and held in position on the chute.

In Fig. 3 of the drawings, I have shown a curved form of clamping plate used in connection with a round chute, and in this instance the plate is curved to conform to the contour of the chute, the operation being the same as previously described.

It will now be seen that I have provided a very cheap and economical form of bag holder, and one that can be used in connection with various formed chutes, and it will further be seen that the parts of the holder may be quickly and easily operated to retain or release the bag, and also that when the parts are used for holding the bag, it will be impossible for the bag to casually slip from the chute.

What I claim is:—

1. The combination with a chute; of means to secure a bag thereon comprising a pair of arms, the upper portions of which are curved outwardly and the outer edges of the lower ends thereof tapered to form a wedge, means to pivotally mount said arms on the chute, a plate at the lower end of each of said arms, a bifurcated lever having bars thereon, adapted to engage the tapered edges to secure the bag to the chute, and to engage the curved ends thereof to release the plates from the bag, and means to pivotally mount said lever in operative position on the chute.

2. The combination with a chute; of means to secure a bag to the lower end thereof, comprising a pair of arms,

the upper portions of which are curved outwardly and the lower outer edge thereof tapered to form a wedge, means to pivotally mount said arms upon the chute, a lever having bars thereon adapted to extend to opposite sides of the
5 chute and over said arms, means to pivotally secure the free ends of said bars to the rear edge of the chute, the pivotal point of said arms being substantially in a horizontal plane with the pivotal point of the arms, whereby when said lever is lowered, the bars will engage the tapered edge

of the arms and force the same inwardly, clamping plates 10 on the lower ends of said arms, said plates having a plurality of points on the engaging face thereof.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM M. RENNE.

Witnesses:

E. M. BYERS,

W. A. MILMINE.