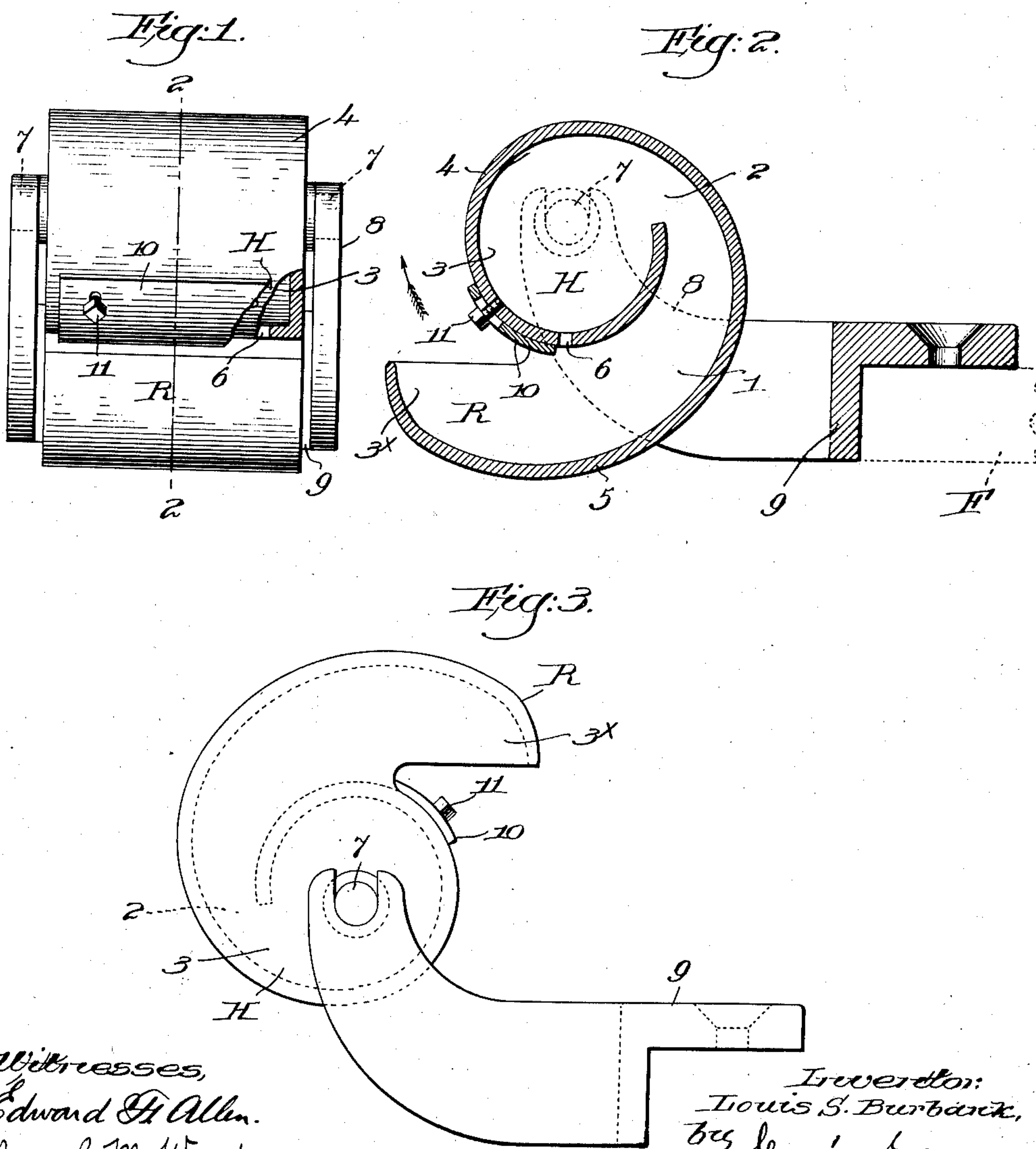


L. S. BURBANK.
 RECEPTACLE FOR TRAVELERS FOR RING SPINNING FRAMES.
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UNITED STATES PATENT OFFICE.

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RECEPTACLE FOR TRAVELERS FOR RING-SPINNING FRAMES.

No. 928,177.

Specification of Letters Patent.

Patented July 13, 1909.

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To all whom it may concern:

Be it known that I, LOUIS S. BURBANK, a citizen of the United States, and resident of Hopedale, county of Worcester, State of Massachusetts, have invented an Improvement in Receptacles for Travelers for Ring-Spinning Frames, of which the following description, in connection with the accompanying drawing, is a specification, like characters on the drawing representing like parts.

This invention has for its object the production of a simple, cheap and efficient receptacle for holding travelers for ring spinning frames in such manner that the travelers will be presented in convenient position and number for use as required, while holding in reserve a supply of such travelers and preserving them from waste or improper handling.

When travelers are supplied in bulk the attendant, whether from carelessness, haste, or inattention will frequently take up several at a time when maybe only one is needed, and will then drop those not used on the floor, to be swept up and lost.

It is desirable to keep a supply of the travelers within easy reach, and in my present invention I have provided for this while at the same time protecting the main supply in such manner that only a few at a time will be held in a suitable open receiver, from which the operator can pick them out one by one as they are required, a slight movement of the receptacle serving to transfer a few of the travelers to the receiver to replenish the latter.

The various novel features of my invention will be fully described in the subjoined specification and particularly pointed out in the following claims.

Figure 1 is a front elevation, partly broken out, of a traveler receptacle embodying my present invention; Fig. 2 is a sectional view thereof on the line 2—2, Fig. 1, showing clearly the internal construction and arrangement of the receptacle and the support on which it is pivotally mounted; Fig. 3 is a side elevation of the device, with the receptacle turned over into position to direct travelers to the holder.

In accordance with my invention the traveler receptacle is made as a casting comprising an interior holder for the supply of travelers in reserve, and an open-top receiver extended beneath an outlet orifice in the

bottom of the holder, to receive therefrom a few travelers and retain them in such position that they may be easily removed by the fingers of the operator. The receptacle is horizontally pivoted on a support fixed to any convenient part of the spinning frame, and as the receiver communicates by a curved, inclosed passage with the holder any surplus travelers in the receiver may be returned to the holder by giving the receptacle a revolution on its pivot. By a similar movement the holder is loaded, and a slight shaking or oscillating movement of the receptacle on its axis will cause one or more travelers to pass through the outlet orifice and into the open receiver beneath it, in readiness for use.

Referring to the drawings, and more particularly Fig. 2, the receptacle comprises an interior holder H and a receiver R, the inner end of the latter communicating by a curved passage 1 with the inlet 2 of the holder. The holder and receiver are formed by parallel ends 3 connected by a substantially spiral wall 4, 5, the part 5 forming the bottom of the receiver, while the part 4 of such wall completes the holder H, substantially cylindrical in shape. A slot-like outlet orifice 6 is made in the part 4 of the wall at the bottom of the holder, extending transversely thereof, and beneath said orifice the open-top receiver R extends, the upturned sides 3^x of the receiver being suitably shaped extensions of the end walls 3. The receptacle is made as a unitary casting, and the ends 3 thereof are provided with lateral journals 7, Fig. 1, which are arranged to fit in bearings in the upturned sides 8 of a bifurcated support 9 which is fixedly secured to any convenient part of the spinning frame. By means of an adjustable plate 10, held in place by set-screws 11, the width of the outlet orifice 6 may be varied to suit travelers of different sizes. The journals 7 are arranged above the center of gravity of the receptacle so that under normal conditions it maintains the position shown in the drawing, Figs. 1 and 2, with the receiver in convenient position for use.

To load or fill the receptacle a quantity of travelers in bulk are emptied into the receiver, and the receptacle is then turned completely over in the direction of the arrow, Fig. 2, into the position shown in Fig. 3, the travelers sliding through the passage 1 and

the inlet 2 into the holder H, being retained therein by the cylindrical portion 4 of the side wall when the receptacle resumes its normal position. By shaking or oscillating the receptacle on its journals, when in normal position one or more travelers will be detached from the mass in the holder and will pass through the orifice 6 and drop into the receiver R, from which they are removed as wanted by the fingers of the operator. Should too many travelers accumulate in the receiver they can be returned to the holder by turning it clear over, as in loading the holder. The latter protects the reserve supply of travelers from dirt and from careless handling, and delivers them in small quantities to the receiver, so that waste is prevented and the travelers are held in a convenient manner for use.

In Fig. 2 F represents in dotted lines a portion of the frame to which the support for the receptacle is attached.

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

1. A receptacle for travelers, having closed ends and a connecting, substantially spiral wall, to constitute an interior holder having an orifice in the bottom thereof when the receptacle is in normal position, the outer end of the wall forming with adjacent portions of the ends an open receiver for travelers extended beneath the orifice, and a support on which said receptacle is pivotally mounted.

2. In a device of the class described, a support, and a receptacle horizontally pivoted thereon comprising an interior holder having an outlet orifice and an external, open receiver extended beneath the orifice of the

holder and communicating with the latter by a curved, inclosed passage.

3. In a device of the class described, an inclosed, substantially cylindrical holder having an outlet orifice in its bottom and an enlarged inlet in its side wall, an attached open receiver communicating by a curved passage with the inlet of said holder, and a support on which said holder and receiver is horizontally pivoted to normally maintain the receiver extended beneath the outlet orifice.

4. The combination, with a bifurcated support, of a traveler receptacle pivotally mounted between the arms thereof and comprising a holder having closed ends and a connecting side wall extended in spiral form beneath the holder to form an open-topped receiver, the holder having an adjustable outlet above said receiver and an inlet communicating by a curved, inclosed passage with the inner end of the receiver.

5. A traveler receptacle comprising a cylindrical holder having a slot-like outlet and an integral, open-top receiver extended beneath it and communicating at its inner end with the holder, the curved bottom of the receiver continuing in substantially a spiral and merging with the cylindrical wall of the holder, and means to pivotally support the receptacle on a horizontal axis.

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

LOUIS S. BURBANK.

Witnesses:

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