

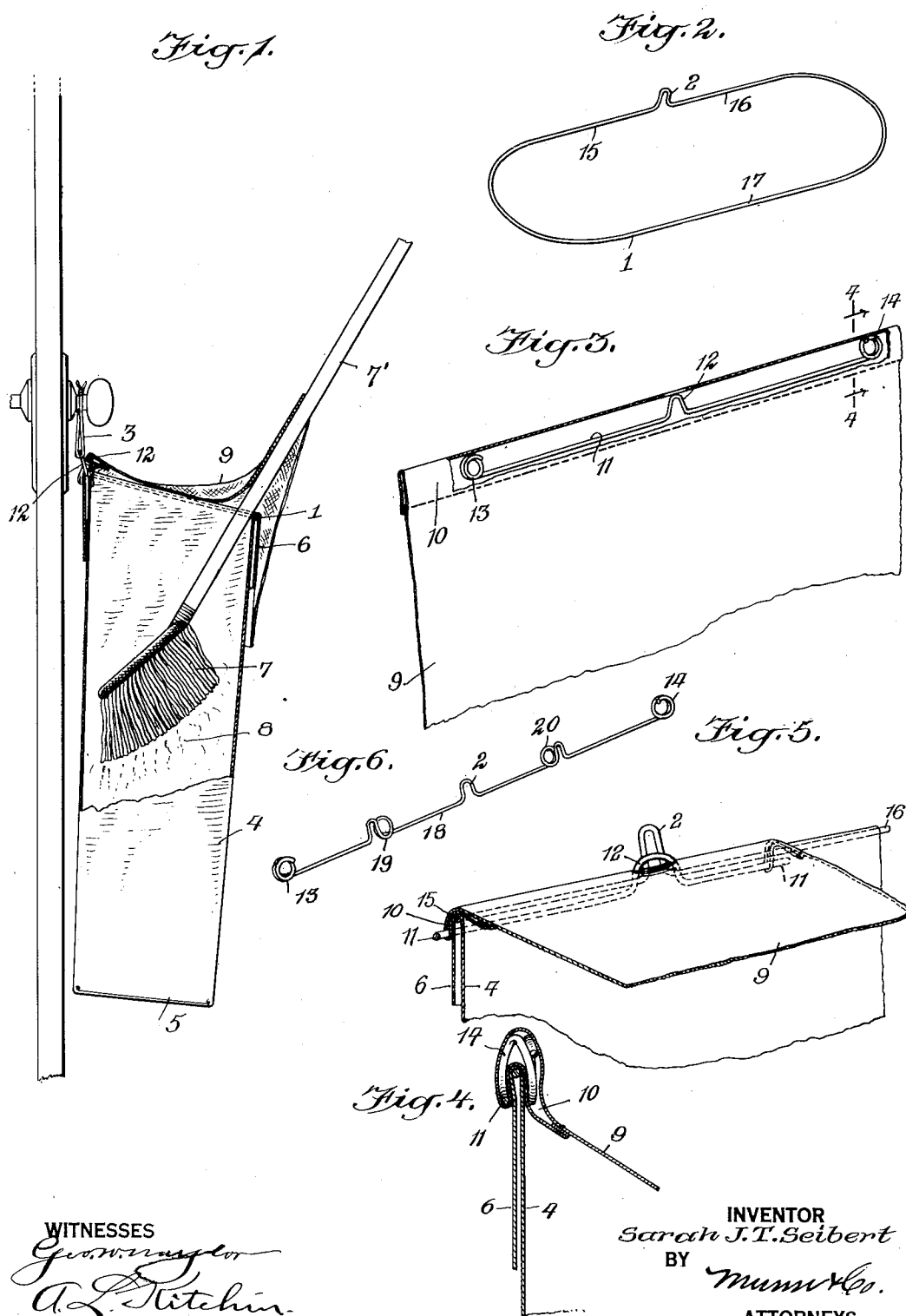
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SANITARY MOP DUST RECEPTACLE

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SANITARY MOP DUST RECEPTACLE

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6 Claims. (Cl. 150—1)

This invention relates to dust receptacles and to an improved mop dust receptacle, the object being to provide an improved simplified structure wherein a dust mop may be placed and shaken or agitated to remove the dust therefrom without the dust escaping to the surrounding air.

Another object of the invention is to provide a mop dust receptacle which may be set on the floor, hung on a knob, or supported in different other ways, and which will present a substantially continually closed receptacle in which a dust mop may be shaken to remove the dust therefrom without danger of scattering the dust in the room.

An additional object, more specifically, is to provide a dust receptacle which includes a removable bag supported by a metal ring member and normally covered by a flexible cover positioned to substantially continually maintain the bag closed so that no dust may escape therefrom.

In the accompanying drawing—

Figure 1 is a side view with certain parts in section illustrating a mop dust receptacle embodying the invention and showing same supported on a door knob with a mop projecting into the receptacle.

Figure 2 is a perspective view of the bag supporting ring shown in Figure 1.

Figure 3 is a perspective view of the cover shown in Figure 1, certain parts being broken away for illustrating the metal clamping structure.

Figure 4 is a sectional view on an enlarged scale through Figure 3 approximately on the line 4—4.

Figure 5 is a fragmentary view of the center upper part of the structure shown in Figure 1 illustrating a small portion of the cover immediately before it is turned and forced into a clamped position.

Figure 6 is a perspective view of a clamping structure illustrating a modified form to that shown in Figure 3.

Referring to the accompanying drawing by numerals, 1 indicates a ring or loop which is preferably of metal and which has a bent up section 2 designed to receive a cord or other supporting member 3, which in turn may be looped over any desired support, as for instance, a door knob. Coacting with the ring 1 is a bag 4 which is preferably of paper, and also preferably provided with a square bottom 5 and with turned over upper portion 6, which overlaps the ring 1. The upper part of the bag is forced through ring 1 and then bent over to form the depending portion 6 as shown in Figure 1. This would form a desirable receptacle for receiving a mop 7 so that the dust 8 may be removed therefrom by shaking, but if

the bag was left open the dust would pass into the room, and, consequently, the device would be objectionable. To avoid this objection a cover 9 is provided which may be of any flexible material, as, for instance, a piece of cloth. This cover may be rectangular or any other shape, but provided with a hem 10 along one edge in which is arranged a clamp 11. Clamp 11 as shown in Figure 3 consists of a rod or heavy wire with the bent up central section 12 forming an inverted V and at the ends looped or bent into coils 13 and 14, which coils are forced over the bent over portion of the bag 4 and ring 1, as illustrated particularly in Figures 1 and 4. As the wire or rod is resilient the coils 13 and 14 present a good clamping action for clamping the bag on to the ring 1, and also clamping the cover 9 along the rear of the bag. It will be noted that the ring 1 is provided with straight sections 15 and 16 along the rear and at the front with a straight section 17 whereby an ample opening is presented through which the mop 7 may be passed at any time. After the clamp 11 has been arranged in the hem 10 the cover 9 is moved to a position over the bag 4, and usually part of the cover drops into the bag as shown in Figure 5. The parts are positioned so that the V-shaped member 12 straddles the bent up section 2, as illustrated more particularly in Figure 5. When the parts are arranged as shown in Figure 5, the clamp 11 and associated parts are moved somewhat nearer the ring 1, as shown in Figure 5, and then the coiled ends or gripping members 13 and 14 forced to the position shown in Figure 4, which is a straddling position, and whereby these members grip the cloth forming the hem 10, the folded upper edge of the bag 4 and the ring 1. In this way the rear of the cover is rigidly secured to the straight sections 15 and 16. The free part of the cover is then spread so as to cover the open end of the bag 4 and to be draped over the same at the sides and the front. When the mop 7 is to be inserted, the cover is raised sufficiently for this purpose and is then allowed to drape itself around the handle 7', as illustrated in Figure 1, so that during the shaking operation the dust will be deposited in the bag and will not escape therefrom. The bag being square on the bottom may be set on the floor, if desired, but is preferably hung on the door knob of the room being cleaned. It is, of course, evident that it might be supported on some other device without departing from the spirit of the invention, though the door knob being convenient is usually used as the person using the device moves from room to room dur-

ing the cleaning process. After all the rooms have been cleaned, or at any desired time, the bag with its contents undisturbed may be taken to any desired place, and the bag with its contents still undisturbed burned or otherwise disposed of. After this has been done a new bag is then applied and the device is ready for further use.

As shown in the accompanying drawing the bag 4 is made of paper and applied directly to ring 1. This structure is very desirable, but under some circumstances a cloth bag of the same shape as shown in Figure 1 is applied to ring 1, and the turned over edges stitched in place, the cover 9 and associated parts remaining the same. When using a cloth bag of the kind described, a paper bag is inserted for sanitary reasons, and preferably one edge is turned over to form the flange 6, as shown in Figure 1, after which the cover 9 is applied. Where a paper bag lines a cloth bag, the paper bag only is removed and burned, or otherwise disposed of after having been used. When the outer bag structure is made of paper, as shown in Figure 1, this is removed without disturbing the contents, and the bag and contents disposed of simultaneously.

Instead of using the clamp 11, as shown in Figure 3, a modified structure may be used as shown in Figure 6. The clamp 18 shown in Figure 6 is preferably formed from a single rod or heavy wire and is provided with bent up section 2 as well as the coils 13 and 14. In addition the coils or loops 19 and 20 are formed at desired places along the body of the clamp to present other clamping elements whereby the ring 1 may be clamped at more than two places, as would be the case when the clamp 11 shown in Figure 3 is used. In this form of the invention the various clamping elements straddle the sections 15 and 16 of the ring as illustrated in respect to the coil 13 in Figure 4. This arrangement of clamp, as well as that shown in Figure 3, presents means which may be quickly set in operative position and quickly disconnected. Also, it will be evident that the respective clamps may be moved out of the hem 10 at any time, as, for instance, when it is desired to wash the cover 9.

I claim:

1. A sanitary mop dust receptacle including a ring, a bag having its entire upper end folded over and interlocked with said ring at all points, a flexible cover for the open end of the bag, and means for clamping one edge of the cover to the bag and to said ring.

2. A sanitary mop dust receptacle including a ring having at the back a straight section and a projecting bent-up section, a paper bag hav-

ing the upper end folded over said ring, a supporting member carried by said bent up section adapted to be passed over a support, a cover adapted to cover the open end of said bag and a clamp carried by said cover along one edge, said clamp being formed with a plurality of resilient clamping members and adapted to be forced over and straddle part of said bag and part of said ring, said clamp being arranged at the rear of the ring and bag whereby the front and the sides of the cover may be lifted to admit and to remove a dust mop.

3. A mop dust receptacle comprising an elongated ring having a bent up looped section, a paper bag having a square bottom and a turned over upper edge fitted over said ring with the looped section projecting therethrough, a flexible member carried by the looped section for supporting the ring and bag, said bag being fully open when engaging said ring, a flexible cover adapted to be draped over the open end of said bag so as to extend below said open end, and a clamping structure carried by said cover positioned to clamp said ring at a plurality of points, said clamping structure having a portion substantially straddling said bent up looped section of said ring.

4. A mop dust receptacle including a supporting frame, a bag having an open end looped over said frame, means for connecting said frame to a support, a cover of cloth fitted over the open end of said bag and removable resilient clamping means for securing the cover to the bag frame along one edge, said clamping means including a pair of spaced coiled resilient clamps and a member connecting said clamps.

5. In a mop dust receptacle, an open ended bag, an elongated ring engaging the open end of the bag for supporting the bag and holding said open end continually in an open position, a cloth cover for the open end of said bag, and a wire clamp carried by the cover and provided with resilient gripping members adapted to straddle part of said bag at the upper end and part of said ring.

6. In a mop dust receptacle, an open ended bag, a ring for supporting the bag, said ring being arranged at the open end of the bag, a cloth cover for said bag, said cover along one edge having a hem, a wire clamping member removably mounted to said hem, said clamping member being provided with a plurality of resilient gripping members adapted to straddle the upper part of said bag and said ring so as to pinch the same and part of the cover to the bag and ring.

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