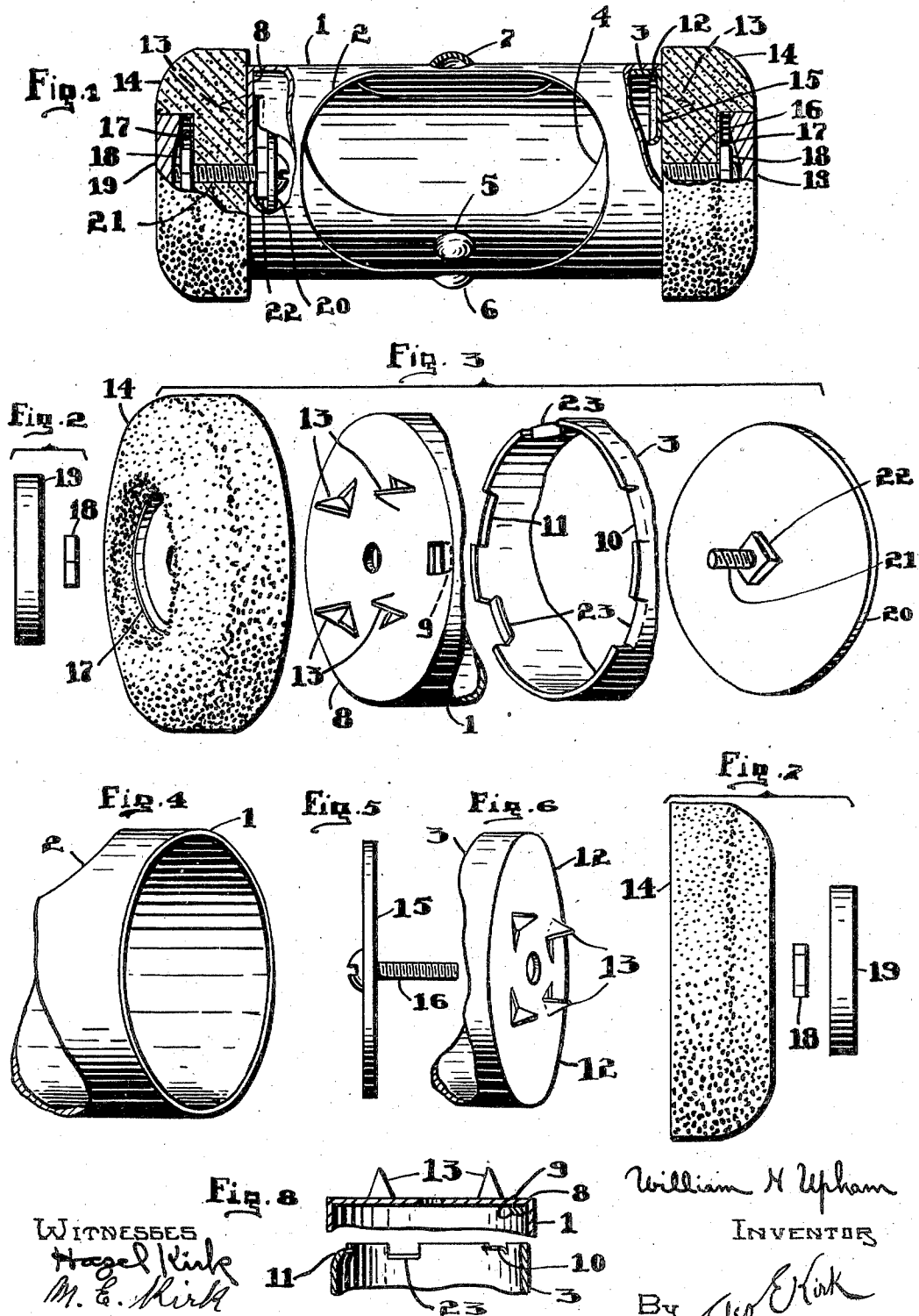


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PNEUMATIC CASH CARRIER.
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PNEUMATIC CASH-CARRIER.

947,872.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM H. UPHAM, a citizen of the United States, and a resident of Toledo, Ohio, have invented certain new and useful Improvements in Pneumatic Cash-Carriers, of which the following is a specification.

This invention relates to a receptacle.

This invention has utility when embodied in a pneumatic carrier or cartridge, such as is used in tubes in store service, the device being of most simple construction and durable in operation. As features toward these desired ends there are a minimum number of parts coacting with certainty to stand rough usage, while easily permitting opening and closing of the receptacle and taking of the device apart, there being further an absence of all sharp corners or projections liable to injure the hands of the user as well as mutilate articles transmitted therein.

Referring to the drawings: Figure 1 is a side elevation, with parts broken away of an embodiment of the invention in a carrier; Fig. 2 is a side elevation of block or plug and nut; Fig. 3 is a perspective view, to some extent separated and partially broken away of the remaining elements which together with the showing in Fig. 2 combine to assemble in forming one end of the carrier as shown in Fig. 1; Fig. 4 is a fragmentary perspective view of one end of the outer cylindrical section of the carrier; Fig. 5 is a side elevation of disk or washer with holding bolt; Fig. 6 is a fragmentary perspective view of the end of the inner section which fits within section end shown in Fig. 4, and in which inner section fits the disk shown in Fig. 5; Fig. 7 shows in elevation the cushion or grip member with nut and plug therefor which go to complete this second end of the carrier opposite to that shown in Figs. 2 and 3; and Fig. 8 is a fragmentary section showing the interengaging stops for positively limiting the relative rotative movements.

The receptacle as shown comprises the outer cylindrical member or section 1 provided with a lateral opening 2 of oval or rounded-corner form to impart to the shell a maximum of rigidity by avoiding undue weakening in more abrupt forms which start fracture. Furthermore the general circular form of the opening permits of more convenient introduction into and removal from

the receptacle of articles, for there are not the corners to congest and tear papers. A second cylindrical section member 3 is nested in or concentric with the section 1. The sections 1 and 3 are relatively rotative to bring the opening 2 of section 1 into registry with a corresponding opening 4 in section 3, for opening the receptacle, while the sections are relatively rotative to move these openings out of registry in closing the receptacle.

The inner section is provided with an integral stop portion 5 of concavo-convex form, movable to coact with similar locking portions 6 and 7 in the other section. In Fig. 1 the integral struck up portion 7 is shown in section. In the relative rotation of the sections 1, 3, as the openings 2, 4 approach registry, the portion 5 frictionally engages the outer section, and at registry snaps into seat portion 6 to lock the sections in open relation, being a signal to the ear as well as to the eye. Similarly as the sections are moved to closed position, as the openings get out of registry, the projection 5 frictionally engages the outer section 1 and then snaps into seat 7 to hold the receptacle closed for transmission, thus precluding accidental opening in transit to lose out contents and have them taken down to the fan and destroyed. Between these locking portions near the limits of relative rotation of the sections, the sections are freely rotative, a feature of convenience in ease of operation for the user.

The outer section 1 is provided with the integral closed end 8 having an integral stop portion 9, Figs. 3, 8, coacting with integral stop portion 10 of inner section 3 approximating the closing limit of movement of the sections to preclude relative rotation of the sections 1, 3, beyond the snap locking of portions 5, 7, which movement beyond the limit might be permitted by the springiness of the metal should the parts be handled roughly. Likewise to preclude relative movement of the sections in the opposite direction beyond registry of the openings when the portions 5, 6, snap to lock the sections, there is the stop 11 integral with the inner section with which the stop 9 of the outer section may coact, or interengage.

Remote from outer section end 8, the inner section 3 is provided with closed end 12, from which are integral outwardly extending means 13, shown as toothlike struck out portions oppositely bent to afford a maxi-

mum of resistance against relative rotation of the grip member or cushion 14 impaled thereon. To provide a smooth interior of finished form for the receptacle these struck out portions are covered by the disk or washer 15, held in position by the bolt 16 extending through the end 12, and through cushion 14 which are held in this assembled relation by the nut 18 coacting with the bolt 16 and seating on the washer 17 in a central recess of the cushion 14, which recess is capped or closed by the plug 19 fitting to give the grip member an end of uniform shape.

The section end 8 is provided with cushion engaging means 13, similar to those at end 12, which likewise engage the cushion 14. Inside this portion of the inner section there is a washer 20, similar to washer 15, but the bolt 21 herein is spaced by nut 22 from the end 8 to form a chamber for the interengaging stops 9, 10, 11. Otherwise, this bolt 21, like bolt 16, extends through end 8, cushion 14, washer 17, to engage nut 18 in recess closed by a plug or block 19. In drawing this disk or washer 20 up to form this chamber for the stops, the disk coacts with radially extending portions 23 on the inner section 3 to hold the sections assembled against relative longitudinal movement. While providing a finished appearance throughout, the bolts are readily accessible to permit of adjustment or taking apart without mutilation of any parts. These features contribute materially to the ease in assembling, and the resulting carrier is one in which the cushions are absolutely held, and strong sections have their rotation positively controlled.

What is claimed and it is desired to secure by Letters Patent is:

1. A pneumatic carrier comprising a pair of nested cylindrical members, each member having an opening formed in the side thereof, means connecting said members whereby they may be relatively rotated so as to bring said openings into and out of registry, while preventing longitudinal movement, an outwardly projecting button formed on the inner member, and a pair of cooperating resilient sockets formed in the outer member, said button being adapted to snap into one or the other of said sockets and thus lock the member in either open or closed position.

2. A carrier comprising a pair of nested relatively rotatable sections cylindrically continuous on each side of an opening in each thereof, one of said sections having an integral closed end, said end having formed integral therewith and projecting outwardly therefrom cushion engaging spikes, and a cushion fitting against such end and engaged by said spikes, said cylindrically continuous portions providing integral there-

with locking means medially of the length of said sections, which locking means are movable into coacting relation to maintain the sections in closed position.

3. A pneumatic carrier consisting of a pair of concentrically disposed cylindrical members, having their opposite ends permanently closed, means for holding said members against relative longitudinal movement comprising tongues extending inwardly from the open end of the inner member, a disk fitting within each member and engaging said tongue, a bolt passing through said disk and closed end means for maintaining said disk and end separated so as to form a chamber therebetween, and interengaging stops carried by the members and working in said chamber to limit the relative angular movement of said members.

4. A receptacle comprising a first cylindrical section and a relatively rotative second cylindrical section, each section having an opening relatively movable into and out of registry, the first section being provided beyond its opening and integral with itself with a resilient lock portion, while the second section is provided beyond its opening and integral with itself with a lock portion, said lock portions effective through the resiliency of the first section to interengage and thereby hold the sections from relative rotation, each of said sections having a closed end provided integral therewith with cushion engaging means, and a cushion for each of said closed ends engaged by said means.

5. In a pneumatic carrier, a cylindrical shell having an integral closed end, said end having formed integral therewith and projecting outwardly therefrom cushion engaging devices, a cushion fitting against such end and engaged by said spikes, and fastening means passing through said end and cushion and serving to maintain said parts in engagement.

6. A receptacle comprising a pair of nested cylindrical sections relatively rotatable, each section having an opening relatively movable into and out of registry with a similar opening in the other, one section being provided beyond its opening, and integral with itself with a resilient lock portion, while the other section is provided beyond its opening and integral with itself with a second lock portion, said lock portions being adapted, through the resiliency of the first mentioned section to engage with such lock portion and thereby hold the sections into closed or open position.

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