May 21, 1929. J. SPRING 1,714,281

POWDER DISPENSER

Filed Feb. 7, 1927

Fig. 1.

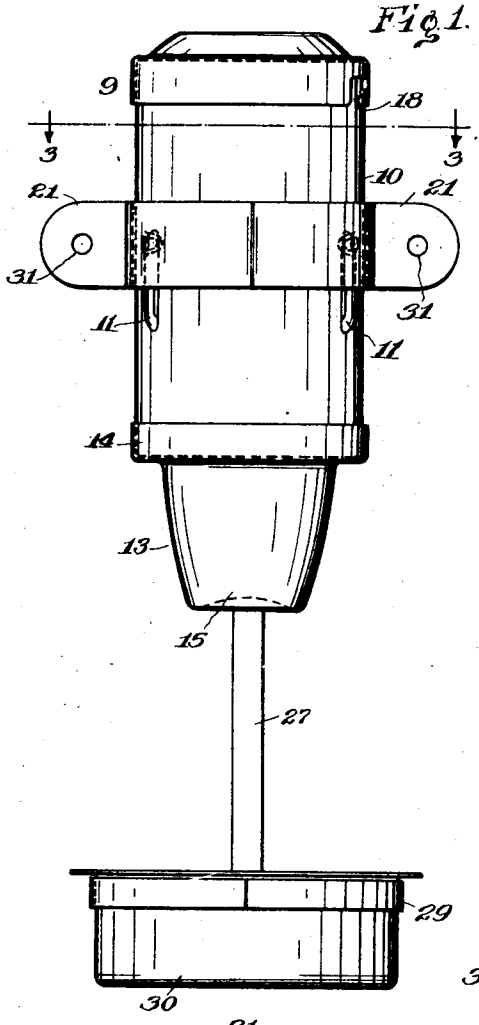
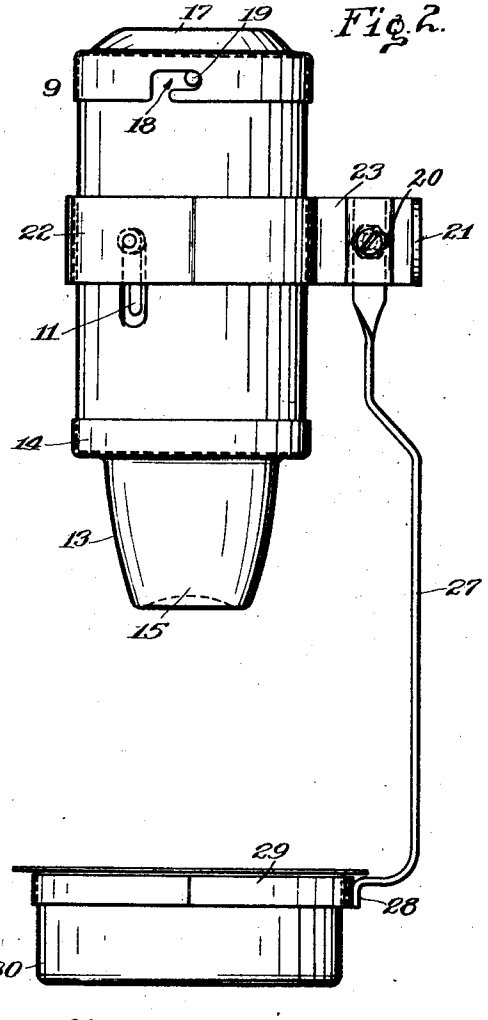


Fig. 2.



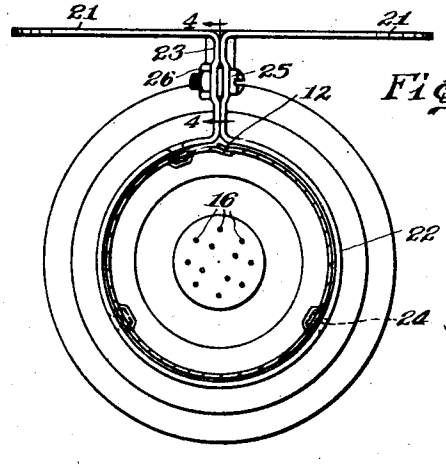


Fig. 3.

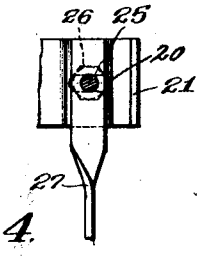


Fig. 4.

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UNITED STATES PATENT OFFICE.

JOSEPH SPRING, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE BRUNSWICK-BALKE-COLLENDER COMPANY, OF WILMINGTON, DELAWARE, A CORPORATION OF DELAWARE.

POWDER DISPENSER.

Application filed February 7, 1927. Serial No. 166,496.

My invention relates to dispensers for finely divided matter and has a special relation to talcum powder dispensers.

One object of the invention is to provide an especially simple mounting for a powder receptacle on which the receptacle may be vertically reciprocated for shaking powder through the apertured bottom thereof.

Another object of the invention is to provide a receptacle of the character described, which will be simple in construction, easy to assemble and inexpensive to manufacture.

In the accompanying drawings forming a part of this specification,

Fig. 1 is a front elevational view of a powder dispenser embodying the invention;

Fig. 2 is a side elevational view of the same;

Fig. 3 is a horizontal sectional view taken on line 3—3 of Fig. 1; and

Fig. 4 is a detail sectional view taken on the line 4—4 of Fig. 3.

The powder receptacle 9 comprises a body 10 which may be of cylindrical shape and has vertically extending grooves 11 stamped or formed in any other suitable manner in its sides. The body 10 may be formed from a blank of sheet metal which may be rolled into the form of a cylinder, the ends of which are then welded together as shown at 12. Secured to the bottom end of the body 10 by solder or any other suitable means is a cap 13 comprising a flange 14 in which the bottom end of the body fits, and a central extension 15 having perforations 16 therethrough. A removable cover 17 is detachably secured to the upper end of the body 10 by means of a bayonet slot 18 and a pin 19.

A sheet metal band comprising supporting end portions 21, a loop portion 22 and parallel engaging portions 23 intermediate said end and loop portions encircles the body 10 for supporting the same in operative position. Inwardly extending projections or deformations 24 are formed or stamped in the loop portion 22 and are adapted to enter corresponding grooves 11, for supporting the body in the band. A bolt 25 passes through elongated slots or openings 20 in the parallel engaging portions 23 of the band, and has a nut 26 thereon, for forcing said parallel engaging portions 23 against each other. By tightening the nut 26 on the bolt 25 the loop portion 22 will be drawn more closely about the receptacle thereby bringing the projections 24 into their corresponding grooves 11 and thus limiting the sliding movement of the receptacle in the band.

Positioned between and supported by the parallel engaging portions 23 of the band is one end of a bracket 27, the other end of which is extended downwardly to a point below the cap 13, and has secured thereto by welding or in any other suitable manner a ring 29, which is adapted to receive and support a cup 30 directly beneath the receptacle for catching matter dropped from the latter. The openings 20 in the parallel engaging portions 23 are elongated so as to facilitate the assembling of the device. Openings 31 are provided in the supporting portions 21 of the band for screws or the like as a means for securing the device in a rigid manner to a permanent fixture.

The elongated grooves 11 in the body of the receptacle will permit limited up and down movement of the latter in the loop 22, and because of this when the receptacle is struck upwardly a jar will be given it causing a suitable amount of powder to be deposited thereby.

It will be noted that the device is made of a minimum number of parts and that it may be easily and readily assembled in place for use.

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

1. In a device of the character described the combination with a receptacle having perforations in the bottom and a vertical groove in the side thereof, of a metal band, the ends of which constitute supports and the middle portion of which extends closely around said receptacle and a projection on said band extending into said groove for limiting the movement of said receptacle.

2. In a device of the character described the combination with a receptacle having perforations in the bottom thereof, of a sheet metal band having supporting end portions and portions adjacent said end portions engaging each other and a loop portion extending closely around said receptacle, said receptacle being vertically movable in said loop portion, stop means for limiting the vertical movement of said receptacle in said

loop portion, and a cup supported by said second mentioned portions for catching matter dropped by said receptacle.

3. In a device of the character described the combination with a cylindrical sheet metal receptacle having perforations in the bottom and having the side thereof deformed to provide an elongated vertical groove, of a sheet metal band encircling said receptacle and having a deformation thereon extending into said groove for limiting the movement of said receptacle and means for supporting said band.

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