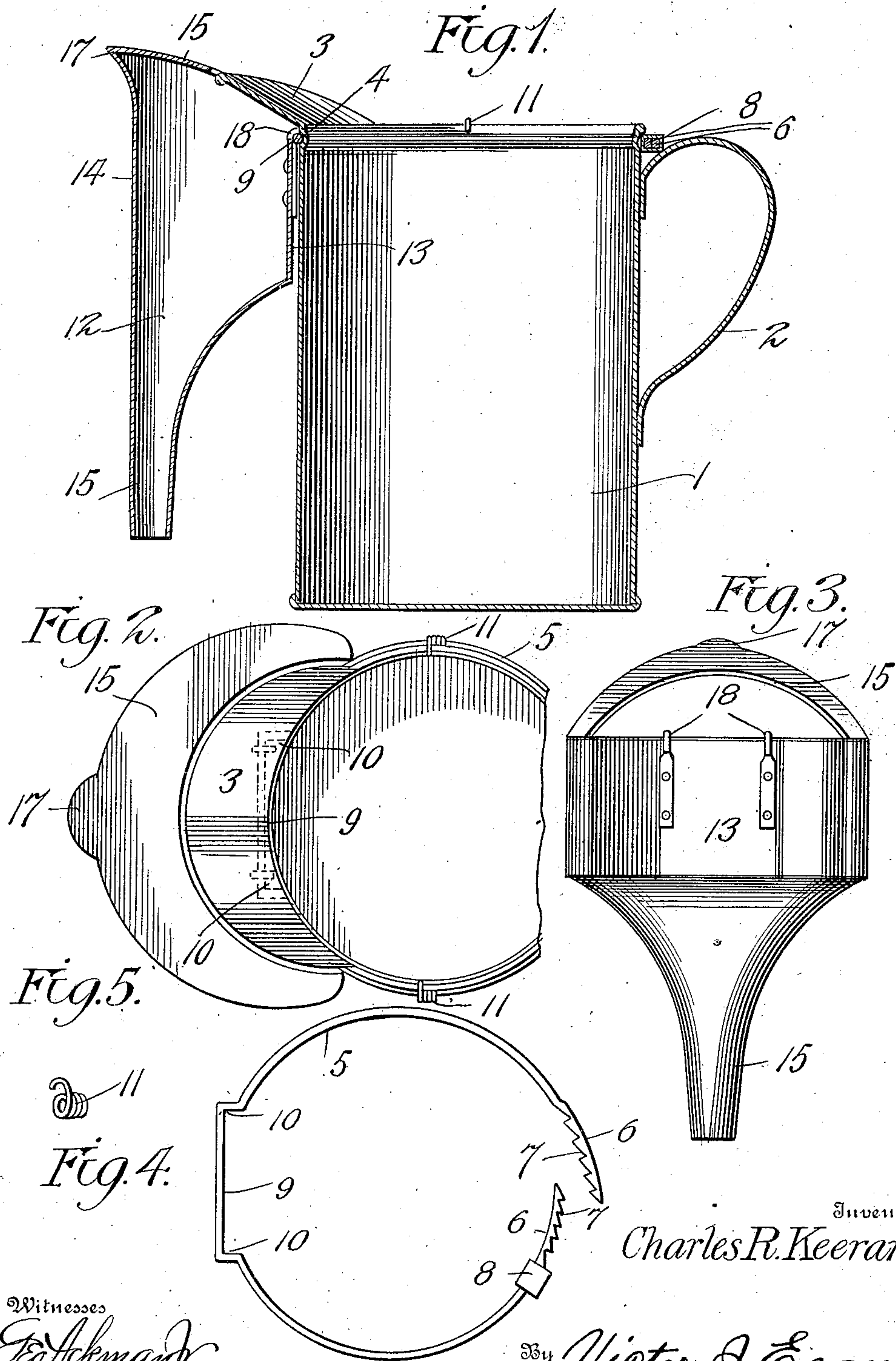


No. 877,435.

PATENTED JAN. 21, 1908.

C. R. KEERAN.
DETACHABLE SPOUT.
APPLICATION FILED DEC. 22, 1906.



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CHARLES R. KEERAN, OF CHAMPAIGN, ILLINOIS.

DETACHABLE SPOUT.

No. 877,435.

Specification of Letters Patent.

Patented Jan. 21, 1908.

Application filed December 22, 1906. Serial No. 349,133.

To all whom it may concern:

Be it known that I, CHARLES R. KEERAN, a citizen of the United States, residing at Champaign, in the county of Champaign and State of Illinois, have invented new and useful Improvements in Detachable Spouts, of which the following is a specification.

This invention relates to funnels designed especially for use in connection with measuring vessels in the operation of discharging the contents of the vessel, and has for its objects to provide a comparatively simple, inexpensive device of this character which may be readily applied for use, one which will constitute in effect a spout for the vessel, and one whereby the contents of the latter may be readily discharged without being spilled.

A further object of the invention is to provide a simple and efficient means including a retaining band for detachably connecting the funnel with the vessel, one wherein the band may be readily adjusted for vessels of varying diameter, and one whereby the funnel will be pivotally suspended to permit free movement of the vessel relative thereto.

With these and other objects in view, the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings: Figure 1 is a central, vertical section taken from front to rear through a measuring vessel having the improved funnel connected therewith in accordance with the invention. Fig. 2 is a detail plan view of the same. Fig. 3 is a rear elevation of the funnel. Fig. 4 is a plan view of the retaining band. Fig. 5 is a perspective view of one of the supporting hooks.

Referring to the drawings, 1 designates a measuring cup or vessel composed of sheet metal or other suitable material, the vessel which is of usual form having a handle 2, and a front lip 3, being provided near its upper edge with a marginal groove 4.

Removably applied around the upper end of the vessel and seated within the groove 4 is a retaining member composed of wire or other suitable material and in the form of a split ring or band 5 having flattened terminal portions 6 which meet at the rear of the vessel above the handle 2 and are provided on their inner meeting faces with reversely disposed intermeshing teeth or serrations 7, there being movably mounted on the band a slide member or collar 8 adapted, when the

band is applied, to be moved for embracing the end portions 6 to hold the teeth 7 in engagement, thus to securely but detachably unite the ends of the band. The latter is bent at a point intermediate its ends to form an outstanding or offset portion 9 consisting of a straight bar which is positioned to lie at the front of the vessel beneath the lip 3 and which is spaced from the body of the vessel by the bent or offset arms 10—10, said bar 9 constituting a hanger upon which a funnel may be supported, as will be hereinafter described. Applied to the band at points between the bar 9 and terminal portions 6 are opposed supporting members or hooks 11 adapted to seat over the rim of the vessel for maintaining the band in place.

Adapted for use on the vessel is a funnel 12 composed of sheet metal or other suitable material and of substantially crescent shape in plan and presenting a substantially semi-elliptical rear wall 13 curved to conform to and fit against the adjacent wall of the vessel and a substantially semi-circular front wall 14 terminating at its upper edge in an inward turned guard flange 15 made continuous throughout the extent of the wall from tip to tip of the crescent, there being attached to the front wall of the funnel, which is provided with a downwardly tapering discharging spout 15, an outwardly projecting finger piece or lip 17 through the medium of which the funnel may be conveniently handled, while attached to the wall 13 is a pair of relatively spaced hanger members or hooks 18 adapted to removably seat over the bar 9 and respectively within the recesses 10 for pivotally suspending the funnel on the retaining band 5. The top of the funnel is pitched at an upward and outward inclination from its rear to its front side on a line in the plane of the lip 3, whereby the flange 15 will stand normally in alinement with the lip and will not interfere with the latter during movements of the vessel.

In practice, the band 4, is applied around the upper end of the vessel within the groove 4 with the hooks 11 engaged over the rim of the vessel and the terminal portions 6 united by means of the slide member 8, after which the funnel is pivotally suspended on the vessel by engaging hooks 18 over the hanger portion or bar 9 of the band, as heretofore explained, it being noted in this connection that the hooks are shaped to snap over bar 9

so as not to slip off except by considerable effort when they are in the correct position to remove, namely, the normal one. In the operation of discharging the contents of the vessel, the handle 2 is grasped and the vessel tilted forwardly, as usual, whereupon the contents of the vessel will be discharged into the funnel, as will be readily understood, it being noted that the guard flange 14 obviates liability of the material entering the funnel splashing over the upper edge thereof. It is to be particularly observed that due to the pivotal connection between the parts, the vessel may move relative to the funnel, whereby the latter will at all times stand or hang in a true vertical position, thus permitting of its reduced discharge end 15 being seated in the mouth of a bottle or the like and the funnel remain stationary while the vessel moves. Furthermore, it will be seen that through the provision of the teeth 7 on the terminal portions of the band, the latter is rendered adjustable for application to vessels of varying sizes.

Having thus described my invention, what I claim is:

1. In a device of the class described, a vessel, an adjustable retaining band applied thereto, supporting members attached to the band and formed for engagement with the

vessel to hold the band in place, and a funnel pivotally suspended on the band.

2. A vessel having an annular groove adjacent to its upper edge, an adjustable band engaging said groove and having an offset portion spaced from the body of the vessel, and a crescent shaped funnel having hooks pivotally engaging the offset portion of the band.

3. A vessel having a forwardly projecting lip at its upper edge and an annular groove adjacent to its upper edge, a split band engaging said groove and having adjustable connected ends, said band being provided intermediate its ends with an offset portion constituting a hanger positioned adjacent to the lip of the vessel, and a funnel pivotally supported upon said hanger.

4. The combination with a measuring vessel having an annular groove of a split band having interengaging teeth at the ends thereof, a sleeve adjustable upon the ends of said band to hold the teeth in engagement, and a funnel pivotally supported upon the band.

In testimony whereof, I affix my signature in presence of two witnesses.

CHARLES R. KEERAN.

Witnesses:

IRVING M. GRAHAM,
EUGENE A. WRIGHT.