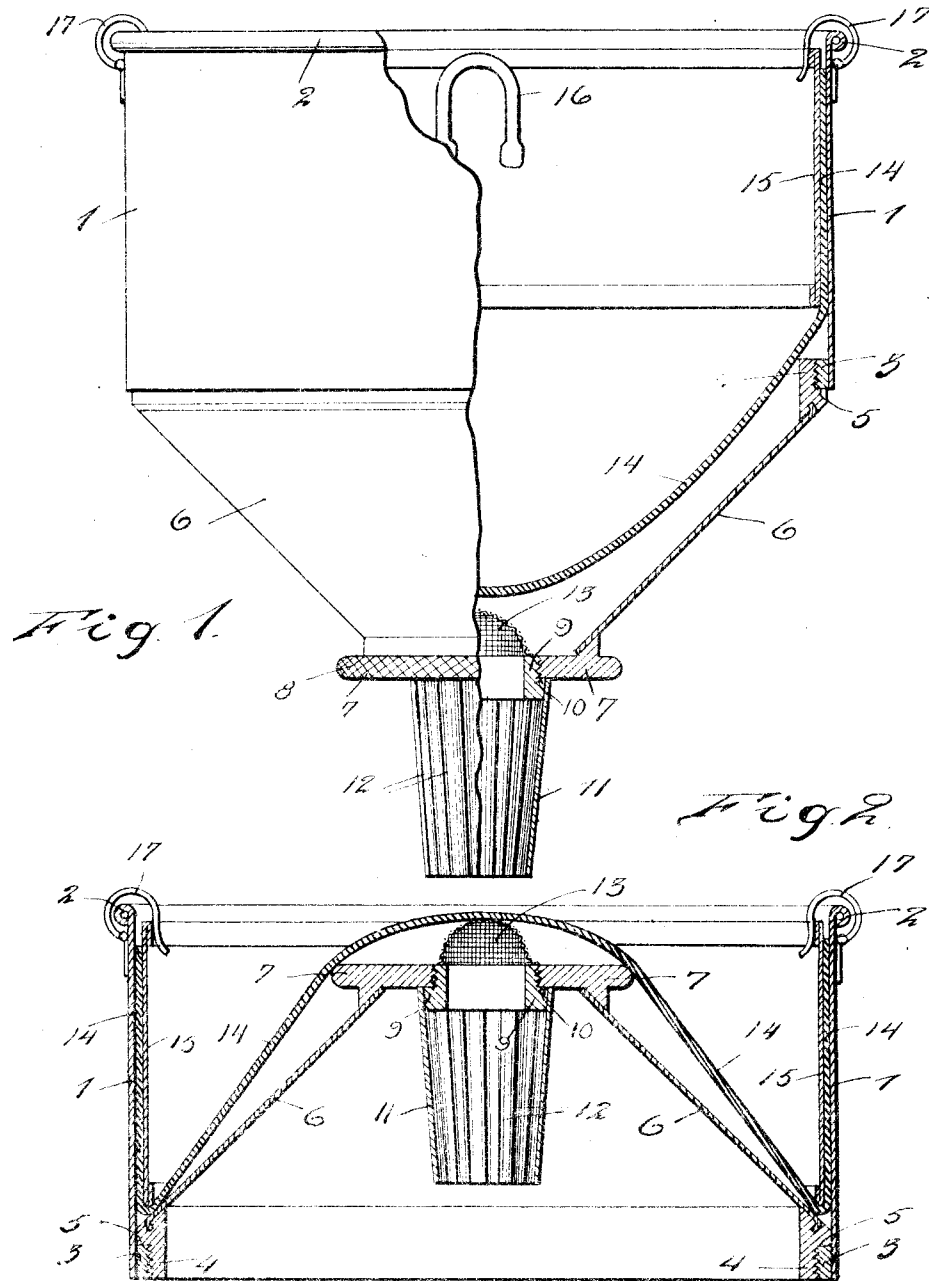


S. E. JARRATT.
 COLLAPSIBLE STRAINING FUNNEL.
 APPLICATION FILED JULY 25, 1912.

1,050,028.

Patented Jan. 7, 1913.



Inventor

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SAMUEL E. JARRATT, OF SPRINGFIELD, MISSOURI.

COLLAPSIBLE STRAINING-FUNNEL.

1,050,028.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SAMUEL E. JARRATT, a citizen of the United States, residing at Springfield, in the county of Greene and State of Missouri, have invented certain new and useful Improvements in Collapsible Straining-Funnels, of which the following is a specification.

My invention relates to funnels and particularly to a funnel for straining gasoline.

The object of the invention is to provide a device of this character which may be readily collapsed or nested for convenience in packing and carrying.

An important object is to provide a device of this character which will remove foreign matter and water from the gasoline.

A further object is to provide a device of this character which will not leak when in its extended position, and will not rattle when carried in its nested or collapsed condition.

Another object is to provide a device of this character which will be cheap in manufacture, efficient in operation and durable in service.

With these and other objects in view, my invention consists in the novel arrangement and construction of parts as hereinafter described and claimed.

Referring to the drawings forming a portion of this specification and wherein like numerals are used to designate corresponding parts throughout the several views: Figure 1 is a side elevation, partly in section, of my improved funnel in its extended position, and Fig. 2 is a sectional view showing the device in its nested position.

Referring more particularly to the drawings, the numeral 1 designates a main cylindrical shell or casing having its upper edge rolled as shown at 2. Inside of the shell 1 and adjacent its lower edge is secured in any desired manner, an annular ring 3 internally screw-threaded as shown.

In engagement with the ring 3 is an externally screw-threaded ring 4 having a shoulder 5 adapted to engage the lower face of the ring 3. Secured to the ring 4 in any preferred manner is a frusto-conical shell 6. The other end of the shell 6 is secured to a ring 7, which is knurled or milled on its outer edge as shown at 8. The ring 7 is internally screw-threaded for engagement with an externally screw-threaded ring 9

which has a shoulder 10 thereon adapted to engage the lower face of the ring 7. Rigidly secured to the ring 9 is a discharge spout 11 provided with longitudinal grooves or corrugations 12 as shown. The knurled or milled portion 8 of the ring 7 affords a good gripping surface when screwing on or off the frusto-conical portion.

On the upper face of the ring 9 is secured a strainer 13 preferably of brass wire gauze. I have shown the strainer as being of semi-spherical shape in order to present a large surface to the liquid in the funnel, though I do not limit myself in this particular. The corrugated or fluted portion of the discharge spout affords a grip for screwing the spout in or out of the ring 7.

In order to remove moisture from gasoline, I provide within the cylindrical hopper a disk 14 of chamois held in place by means of an annular band 15 of metal. This band is provided with lugs 16 for removing it from the funnel. In order to prevent the displacement of the ring 15, I provide a plurality of spring members 17 of any well known or preferred type.

In use my device is assembled as shown in Fig. 1. The funnel may then be used simply as a funnel, or as a strainer without the use of the chamois and retaining band 15. However if it is desired to strain gasoline, the chamois is inserted in place.

For convenience in packing and carrying, my device may be collapsed as shown in Fig. 2 of the drawings. This is accomplished by unscrewing the three sections of the funnel and nesting them. The chamois and retaining band 15 are removed, the discharge spout 11 is inverted in relation to the frusto-conical portion 6 and the ring 9 is then screwed into the ring 7, the portion 6 is then inverted in relation to the hopper 1 and the ring 4 is screwed into the ring 3, the chamois 14 and band 15 are inserted into the hopper, and the spring members 17 are swung into engagement with the top of the band 15.

It will be apparent that this device is rigid and liquid tight in use, and that it will be compact and rigid when collapsed.

It will be understood that various changes in the form, construction and proportion of parts may be resorted to without departing from the spirit of the invention or limiting the scope of the subjoined claims.

Having thus described my invention what I claim is:

1. A device of the character described comprising a hopper, a tapered portion in screw threaded engagement therewith, a discharge spout in screw threaded engagement with said tapered portion, said tapered portion and said spout being capable of being inverted and engaged with each other and said hopper, a strainer disposed within said hopper, and means for detachably securing said strainer in position.

2. A device of the character described comprising a hopper, a frusto-conical shell in screw-threaded engagement therewith, a spout in screw-threaded engagement with

said frusto-conical portion, said spout and said frusto-conical portion being capable of being inverted and engaged with each other and the hopper, a disk of chamois disposed within said hopper, a retaining band within said hopper adapted to hold said chamois in engagement with said hopper, and spring clips to hold said retaining band within the hopper.

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

SAMUEL E. JARRATT.

Witnesses:

ALICE BAUMANN,
EDITHA BAUMANN.