

M. H. LOWRIMORE.
FUNNEL.
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1,272,477.

Patented July 16, 1918.

Fig. 1.

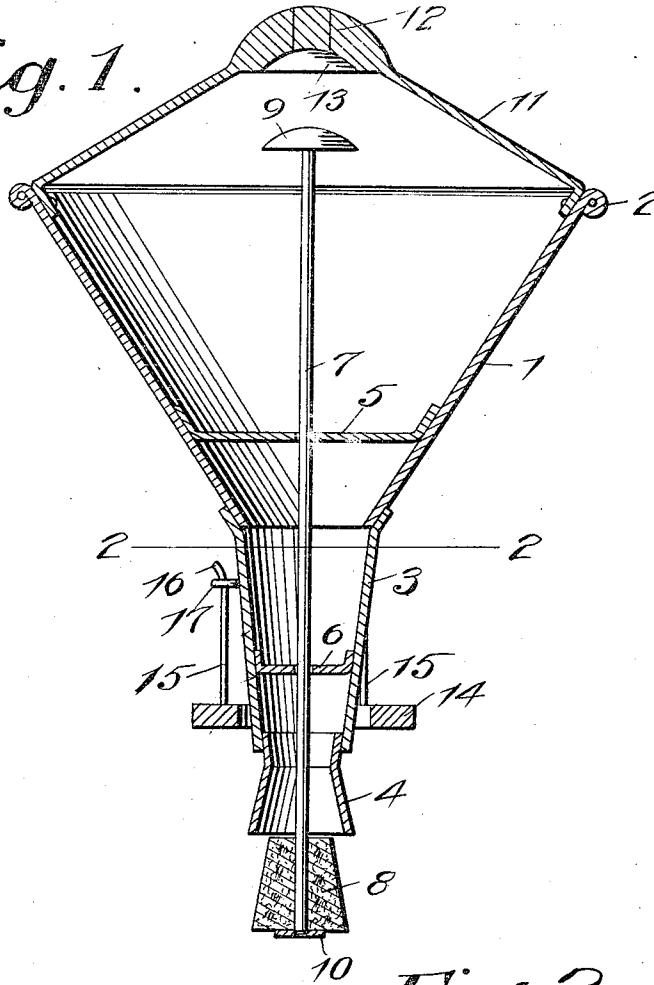
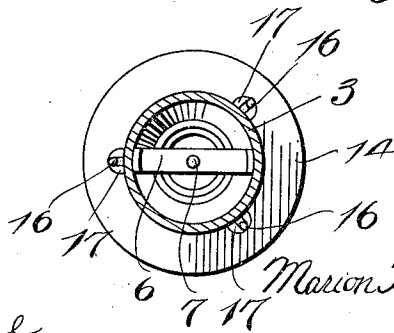


Fig. 2.



WITNESSES

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FUNNEL.

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To all whom it may concern:

Be it known that I, MARION H. LOWRIMORE, a citizen of the United States, residing at Ohatchee, in the county of Calhoun and State of Alabama, have invented certain new and useful Improvements in Funnels, of which the following is a specification.

My invention relates to new and useful improvements in funnels and more particularly to an automatic cut-off funnel.

The primary object of the invention is the provision of a funnel which is simple and inexpensive in construction and in which the flow of liquid will be automatically cut off when the receptacle, in which the liquid is being poured, is filled.

A further object of the invention is the provision of means for holding the funnel closed, so that it may be filled or moved without danger of the contents being discharged therefrom.

A still further object of the invention is the provision of means for adjusting the funnel to receptacles of different sizes.

With these and other objects in view the invention consists in the novel details of construction and arrangement of parts which will be more clearly understood from the following description and drawings, in which,

Figure 1 is a vertical section through the funnel, and

Fig. 2 is a transverse section on the line 2—2 of Fig. 1.

In the drawings the numeral 1 indicates the body portion of the funnel of ordinary construction, being flared in the usual manner and rolled at the top as indicated at 2, to form a reinforcing means around the upper edge. A discharge spout 3 is secured to the bottom of the body 1 in any desired manner, such as by soldering and a flared sleeve 4 is secured in the lower end of the spout 3, the purpose of which will be presently described. A guide 5 is secured within the body portion 1 and a similar guide 6 is secured within the discharge spout 3. A rod 7 passes through openings in the guides 5 and 6 and is provided on the lower end with a cork 8 and on the upper end with a steel disk 9, the upper surface of which is convex, as shown and the purpose of which will be presently described. The cork 8 is held in position by means of a nut 10 which is received on the end of the rod 7. The cork 8 is adapted to be received in the flared

end of the sleeve 4, for closing end of the funnel.

A handle 11 is secured to the top of the body portion 1 and is provided with an enlargement in the center thereof, as indicated at 12, said enlargement being circular in form and provided on the under face with a concave recess indicated at 13 and adapted to receive the steel head 9 on the rod 7. The enlargement 12 is provided with a magnet adapted for attracting the steel plate or disk 9 and holding the same when in contact.

A circular plate 14 having a central opening is received around the spout 3, as is clearly shown in the drawings and is adapted to engage the top of the receptacle which is being filled. A plurality of spring arms 15 are secured upon the top of the plate 14 and the upper ends are flared outwardly, as indicated at 16. These arms 15 pass through eyes 17 formed or secured to the side of the spout 3. The arms 15 being spring arms frictionally engage the eyes 17 and will hold the plate 14 in adjusted position. It will be seen that the plate may be raised or lowered to accommodate the funnel to receptacles having openings of different sizes.

Having fully described the detailed construction of my funnel, it is thought that the operation and many advantages will be clearly understood. When it is desired to fill a receptacle, the spout 3 is placed in the opening thereof and the plate 14 bears upon the top. The cork 8 is lowered by pressing downwardly on the rod 7 and the contents of the funnel can then flow into the receptacle being filled. When the receptacle has become filled to the desired extent, the cork 8 will float upon the liquid and raise the rod 7, forcing the enlarged head 9 into the concaved recess 13 formed in the enlarged head 12. The enlargement 12 being magnetized will hold the steel head 9 within the cavity or recess 13 and the cork 8 will therefore be held tightly within the flared sleeve 4, thereby preventing the contents of the funnel from flowing therefrom. By taking hold of the handle 11, the funnel may be removed from the receptacle and carried to any desired place.

By having the plate 14 adjustably connected to the spout 3 the funnel may be used with receptacles of variant sizes and the depth of the cork within the receptacle adjusted so that the receptacles may be filled to various heights. The spring arms

15 frictionally engage the eyes 17 and hold the plate 14 in adjusted position.

Having fully described my invention what I claim as new and desire to secure by Letters Patent is:

5 A funnel comprising a body portion, a spout, a handle extending over the top of the body portion, a magnetized enlargement formed centrally of the handle and having a
10 recess in the under side thereof, a rod slidably mounted in the body, guides therefor, a float valve on the lower end of the rod, said float valve supporting the weight of the rod on the surface of the liquid when

in contact therewith, and an enlarged head 15 on the upper end of the rod, said head being adapted to enter the recess in the magnetized enlargement when the level of the liquid has raised the rod sufficiently to bring the enlarged head thereon within the mag- 20 netic zone around the recess.

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

MARION H. LOWRIMORE.

Witnesses:

DE LANE ADAIR,
C. I. STOKES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."