G. G. MOORE.

FUNNEL.

APPLICATION FILED AUG. 8, 1914.

1,166,776.

Patented Jan. 4, 1916.

Fig. 2.

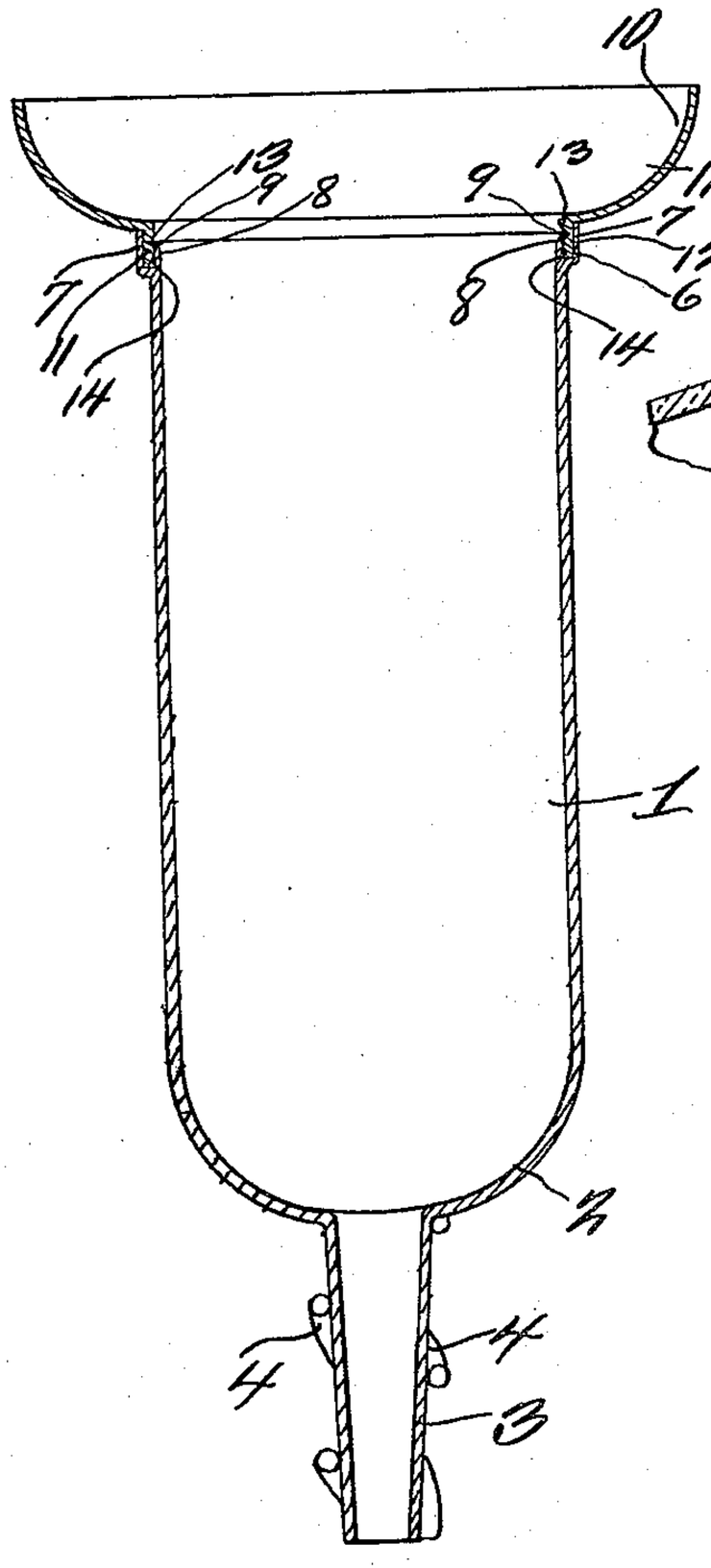


Fig. 1.

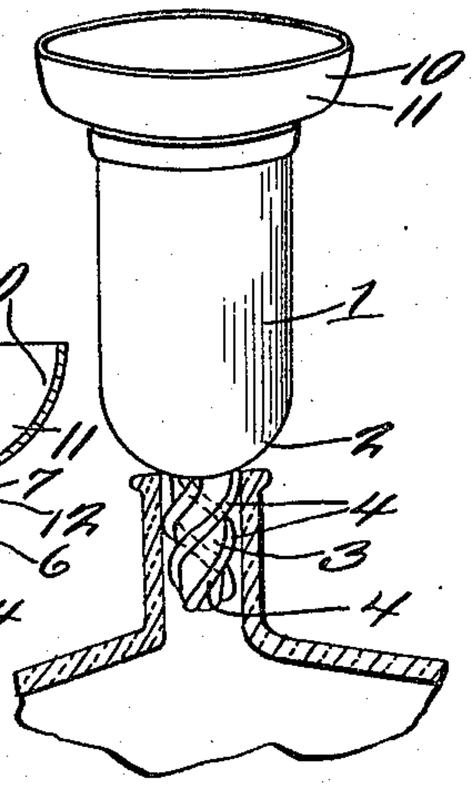
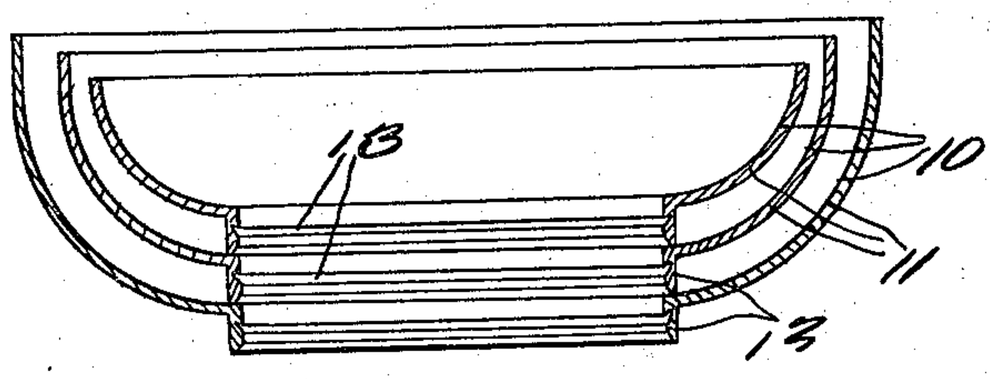


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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FUNNEL.

1,166,776. Specification of Letters Patent. Patented Jan. 4, 1916.

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To all whom it may concern:

Be it known that I, GILBERT G. MOORE, a citizen of the United States, residing at Bryn Mawr, in the county of Montgomery and State of Pennsylvania, have invented a new and useful Funnel; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improved funnel, used in filling various receptacles, bottles and the like.

An object of the invention is to provide a funnel having a lower stem to fit the receptacle or bottle to be filled, and provided with an enlarged cylindrical upper portion having straight sides, which prevent the liquid from forming a whirl pool, which would creep up the sides and over the top.

A further object of the invention is to provide a funnel having a plurality of receiving bowls, any one of which is designed to be detachably connected to the upper peripheral edge of the cylindrical body, to catch the overflow, these bowls being of different sizes, and capable of being nested together. Each one of said bowls is curved in cross section.

In practical fields the details of construction may necessitate alterations, falling within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a perspective view, showing the funnel in the neck of a bottle, which is shown in section, in order to show the pieces of wire on the stem of the funnel to hold the stem spaced apart from the interior of the neck, thereby affording a vent. Fig. 2 is a sectional view through the funnel, showing the joint for detachably connecting the flared bowls. Fig. 3 is a sectional view showing the bowls nested.

Referring more especially to the drawings, 1 designates the body portion of the funnel, the bottom portion 2 of which is curved or bowl-shaped as shown. Extending down from the bowl or curved shaped bottom is a funnel stem 3, slightly tapered as shown. Soldered or otherwise secured to the outer circumference of the stem and arranged spirally the full length of and around the stem are three pieces of wire 4, so as to to hold the stem spaced apart from the interior surface of a bottle or other receptacle, in order to provide spiral vent openings, to allow the escapement of air when filling the receptacle or bottle. In Figs. 1, 2 and 3, the upper edge portion of the body of the funnel is formed with an annular channel 6 U-shaped in cross section. The outer flange 7 of the channel is substantially vertical, while the inner flange 8 of said channel is provided with an outwardly bent portion 9, which, in other words, extends toward the flange 7. A plurality of receiving bowls 10 are provided, so constructed as to enable them to be nested, as shown in Fig. 3, when not in use. Each of said bowls consist of a portion 11 curved in cross section and a downwardly extending annular flange 12, the inner circumference of which is provided with an annular recess 13, which receives the outwardly bent portion 9 of the flange 8, thereby affording a close joint between said bowls and the body of the funnel. It will be seen, however, that by a pulling force the rim may be easily detached, the flange 8 and the bent portion 9 yielding a little when separating a bowl from the body. The inner face of the flange 12 adjacent its lower edge is beveled off as shown at 14, which is engaged by the extreme edge of the outwardly bent portion 9, when shoving or uniting the rim to the body 1, and as the extreme edge of the outwardly bent portion 9 engages the bevel 14, the flange 8 will yield inwardly, thereby allowing the rim to be united to the body 1.

The invention having been set forth, what is claimed as new and useful is:—

A funnel comprising a hollow body having a hollow stem at its lower portion, and a receiving bowl, curved in cross section and provided with a detachable connection with the upper edge of the body, said detachable connection comprising an annular channel including an outer flange and an inner flange, said inner flange having an outwardly extending peripheral portion, said receiving bowl having a downwardly extending portion provided upon the interior surface with an annular recess to receive the outwardly bent portion of the first inner flange, the inner face of the downwardly extending portion of the receiving bowl ad-

jacent its lower edge being beveled, to be engaged by the outwardly bent portion, thereby allowing the receiving bowl to be united to said body, said receiving bowl being designed to be nested with similar bowls of larger diameter.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GILBERT G. MOORE.

Witnesses:
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