C. Jones,

Funnel,

No. 51,515. Patented Dec. 12, 1865.

Fig. 1.

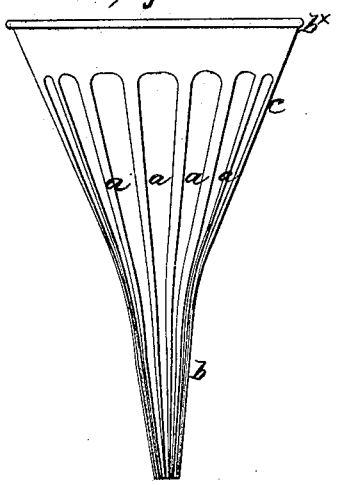
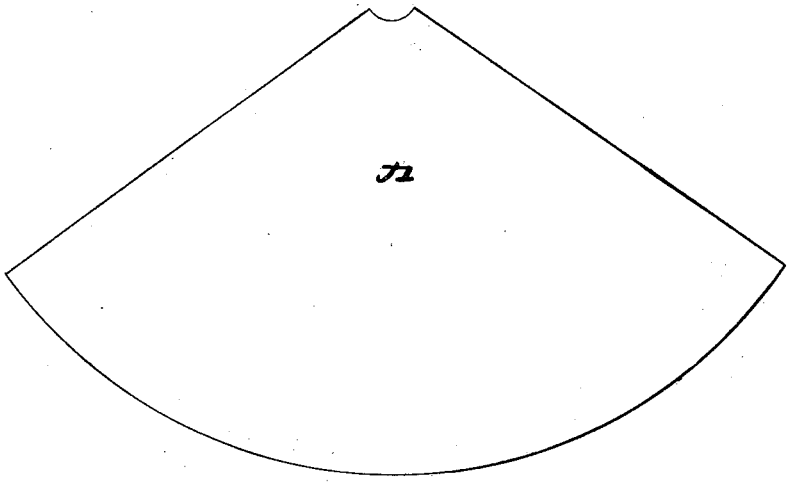


Fig. 2.



Witnesses.
Alt Hearne Jr
Millington

Inventor.
Charles Jones

UNITED STATES PATENT OFFICE.

CHAS. JONES, OF BROOKLYN, NEW YORK, ASSIGNOR TO HIMSELF AND CHARLES HODGETTS, OF SAME PLACE.

IMPROVED FUNNEL.

Specification forming part of Letters Patent No. **51,515**, dated December 12, 1865.

To all whom it may concern:

Be it known that I, CHARLES JONES, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Funnel; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an external view of my invention; Fig. 2, a view of the piece of sheet metal cut out to form the same.

Similar letters of reference indicate like parts.

This invention relates to an improved funnel of that class which are provided with corrugated or fluted ends or nozzles to admit of the escape of air from the vessel while being filled by means of the funnel.

The ordinary funnels of this class have hitherto been made of two separate parts, the end or nozzle being made separate and corrugated, and then attached to the body or main portion, which is smooth.

My invention consists in constructing the funnel of one piece of metal, cut out in the form of a segment, its ends soldered together, and then swaged by means of dies into proper form, and corrugated at the same time.

A, Fig. 2, represents a piece of sheet metal cut out in the form of a segment of a circle. The ends of this piece of metal, after being bent in conical form, are soldered together, and it is then, by means of suitable dies, swaged or struck up in the desired form of the funnel, the dies being so constructed as to flute or corrugate the funnel longitudinally, as shown at *a* in Fig. 1, and to strike up a flange at the large end of the funnel, to receive the wire which forms a rim, $b^{\times}$.

Thus by this simple mode of manufacture I avoid all soldering, except that by which the edges or ends of the metal strip of which the funnel is made are connected together, and consequently economize in the manufacture of the funnel, and at the same time obtain a more durable article than when made of two separate parts, or when the nozzle *b* and body *c* are made separately and then connected together, besides, a more chaste and neat funnel is obtained.

I claim as new and desire to secure by Letters Patent—

A funnel struck up in dies from a single piece of metal, and having a plain marginal surface adjoining the upper edge, and flutes or corrugations increasing in depth from the top downward, as herein described.

CHARLES JONES.

Witnesses:

M. AHEARNE, Jr.,

M. M. LIVINGSTON.