

L. R. COMSTOCK.
Manufacture of Funnels.

No. 139,873.

Patented June 17, 1873.

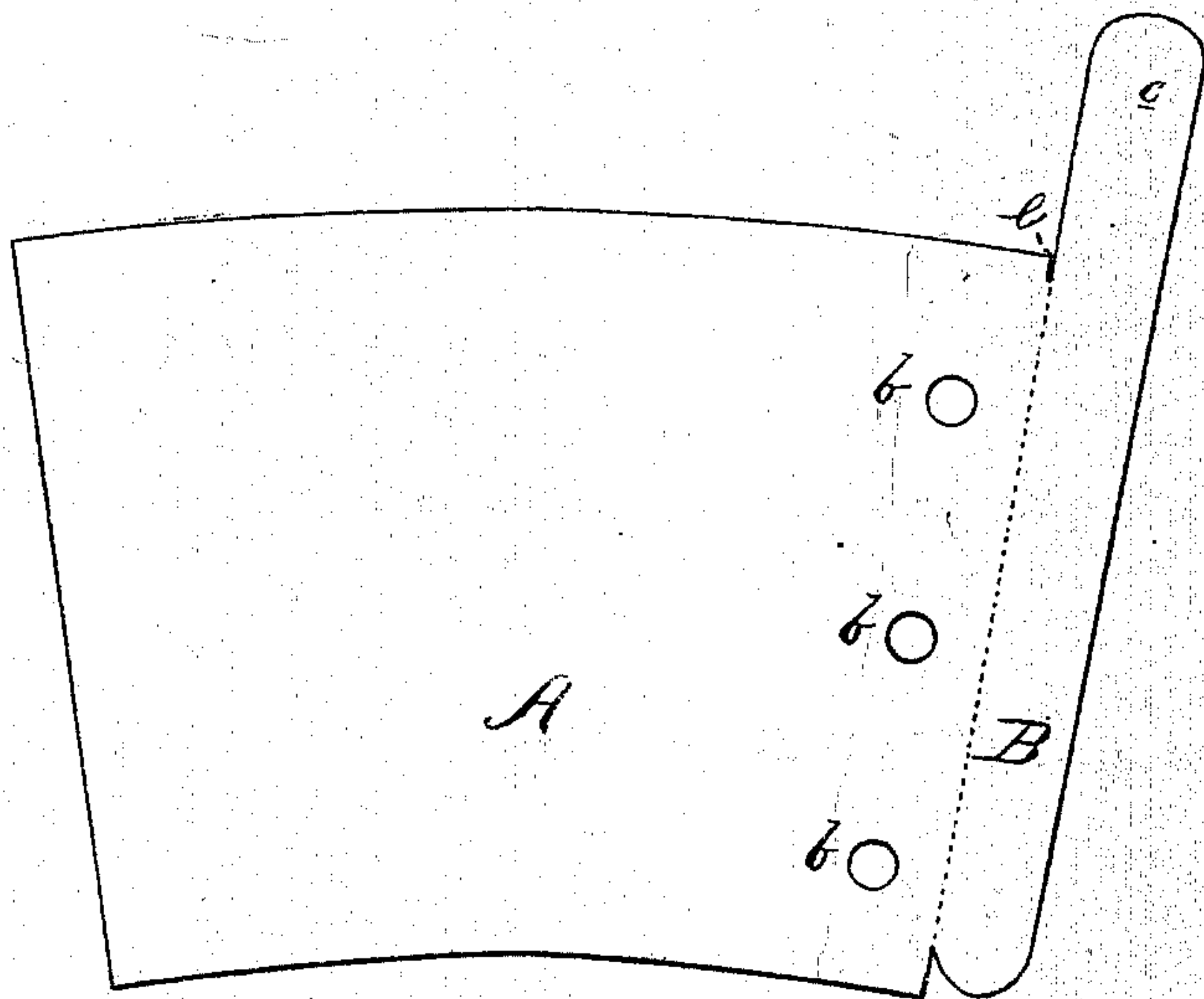


Fig. 1.

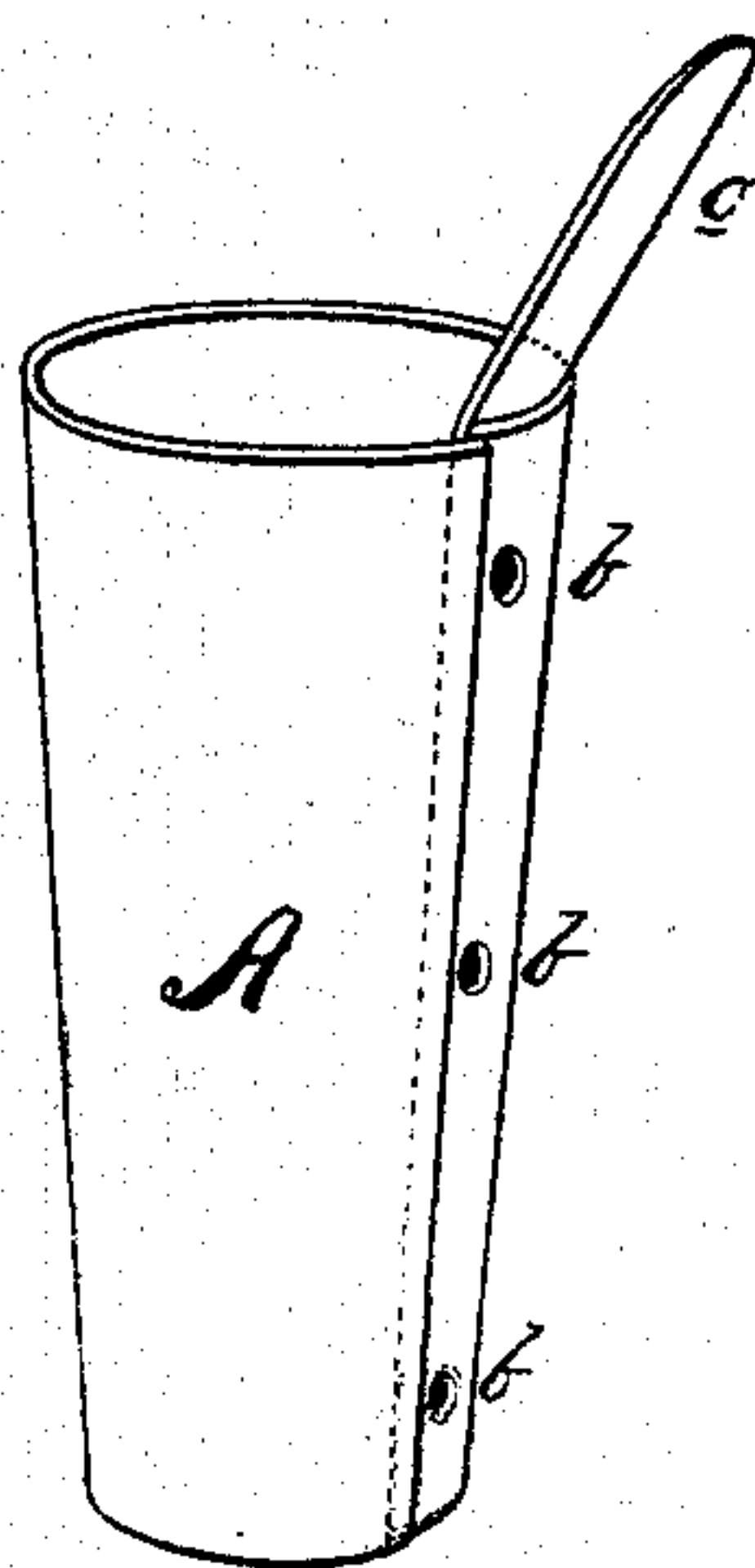


Fig. 2.

WITNESSES.

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IMPROVEMENT IN THE MANUFACTURE OF FUNNELS.

Specification forming part of Letters Patent No. **139,873**, dated June 17, 1873; application filed January 18, 1873.

To all whom it may concern:

Be it known that I, LEVI R. COMSTOCK, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and valuable Improvement in the Manufacture of Funnels; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of the blank. Fig. 2 is a view of my nozzle complete.

This invention has relation to the construction of nozzles for funnels having outlets or tubes for the escape of air; and it consists in forming the tube or channel portion of one piece with the metal of the nozzle, upon the perforated portion of which it is afterward turned when the nozzle is struck into shape.

The object of this invention is to render the expense of manufacturing the class of funnels referred to above so small that they may be brought into general use, competing successfully with the common plain funnel.

In the accompanying drawings, the letter A indicates the body of the nozzle. In striking out this blank, it is extended at the side next the perforations *b* and upward, forming the channel-piece B in the same piece of metal with the main portion or body of the nozzle. A small notch is made at *e*, between the channel-piece and the upper edge of the body A. The channel-piece is so arranged with refer-

ence to the perforated portion of the nozzle that when it is reflected or folded back upon the metal of the nozzle, it will cover the perforations. The edge of the channel-piece should then be soldered to the inner wall of the nozzle, making the air-tube complete, so far as the nozzle portion is concerned.

When the nozzle is turned into shape, as shown in Fig. 2 of the drawings, it may be secured by soldering the edge of the blank to the exterior surface of the air-tube portion, and different sizes of nozzles may be made from the same blank by varying the line of attachment between the perforations and the outer edge of said air-tube portion. The upward extension *c* of the channel-piece is designed to fit within the bowl portion of the funnel over the outlet opening therein, completing the air-channel. When the bowl is secured to the nozzle its lower edge is passed into the notch *e* above mentioned, between the extension *c* and the upper edge of the body of the nozzle.

What I claim as my invention, and desire to secure by Letters Patent, is—

The perforated nozzle-blank for funnels, provided with the extension B in the same piece of metal to cover in the air-channel, as specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

LEVI R. COMSTOCK.

Witnesses:

PHIL. C. MASI,
GEO. E. UPHAM.