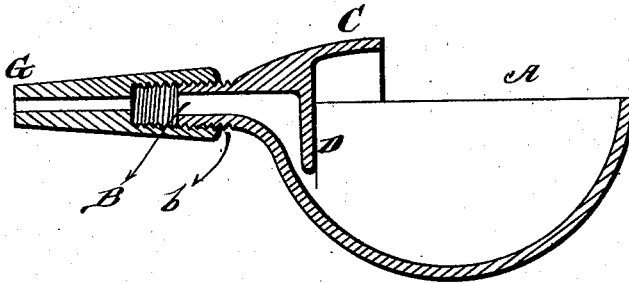


G. F. BUTTERFIELD.  
Metal Founder's Ladle.

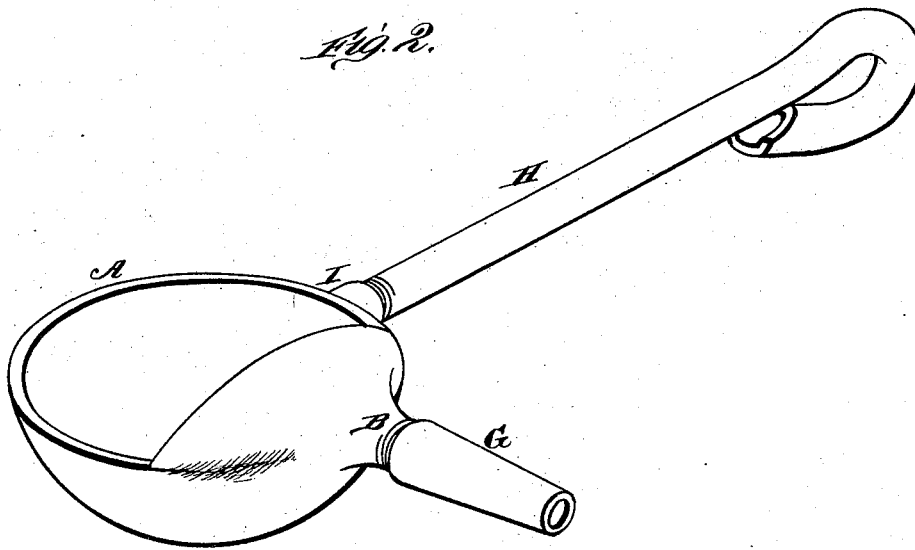
No. 209,223.

Patented Oct. 22, 1878.

*Fig. 1.*



*Fig. 2.*



WITNESSES

*Robert Emmett*  
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INVENTOR.

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ATTORNEYS

# UNITED STATES PATENT OFFICE.

GEORGE F. BUTTERFIELD, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN METAL-FOUNDERS' LADLES.

Specification forming part of Letters Patent No. **209,223**, dated October 22, 1878; application filed December 29, 1877.

*To all whom it may concern:*

Be it known that I, GEORGE F. BUTTERFIELD, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and valuable Improvement in Ladles; 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 vertical section of my ladle, and Fig. 2 is a perspective view thereof.

The nature of my invention consists in the construction and arrangement of a ladle for dipping and pouring out Babbitt metal, solder, &c., as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

A represents a ladle of any suitable form and size, made of cast-iron, and formed with a spout, B, having exterior screw-threads, as shown at *b*. On the side of the spout B there is a cap, C, over a portion of the ladle, and from the under side of the same, in front of the opening to the spout, is a skimmer or lip, D, extending nearly to the bottom of the ladle, forming an opening into the bottom of the ladle, substantially as shown in Fig. 1 of the drawings. This lip or skimmer is for the purpose of allowing the purer and denser metal at the bottom of the ladle to pass up the conduit formed between the ladle and the vertical lip, and holding back all dross, &c., in the ladle, to prevent the same from passing into the molds or boxes. The overhanging cap is to insure, when the ladle is tilted, the discharge from the outlet without spilling over

the lighter metal floating on the top within the ladle.

With the ladle is furnished two or more snouts or nozzles, G G, of different sizes, which are interchangeable, and to be screwed on the spout B. By simply changing the snouts or nozzles, a large or small stream can be poured from the same ladle. On the side of the ladle is formed a hollow boss, I, into which the handle H is screwed, the boss having interior screw-threads for that purpose. By this means one handle will answer for several ladles. The handle is made of hollow piping or tubing, having exterior screw-threads at one end to screw into the boss I, while the other end of the handle is twisted, as shown.

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

1. A ladle having a conduit formed in the side thereof and opening into the bottom of the ladle, substantially as and for the purpose set forth.

2. A ladle having a conduit formed in the side thereof and opening into the bottom of the ladle, and provided with an overhanging cap, substantially as and for the purposes set forth.

3. A cast-iron ladle provided with a spout, B, having exterior screw-threads and interchangeable snouts or nozzles G, of different sizes, attached in the manner as described, and for the purposes set forth.

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

GEORGE FRANKLIN BUTTERFIELD.

Witnesses:

WM. F. GRIFFIN,

EDWARD PEARSON COLLINGS.