

M. Bray,

Nozzle for Cars.

No. 103,420.

Patented May 24. 1870.

FIG. 1..

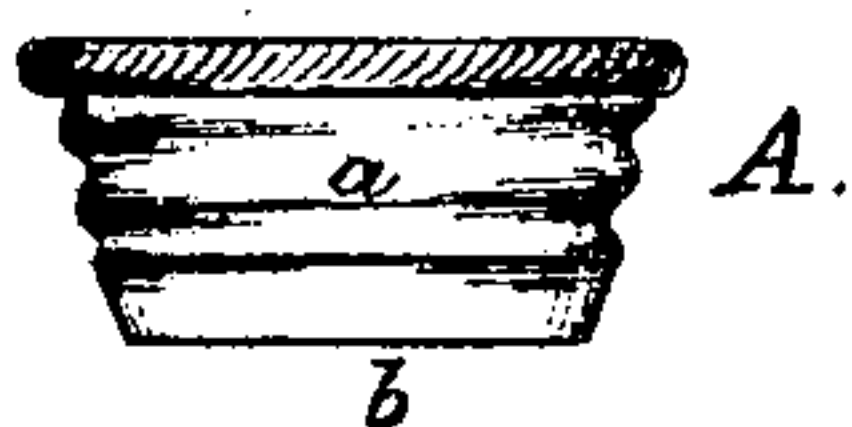
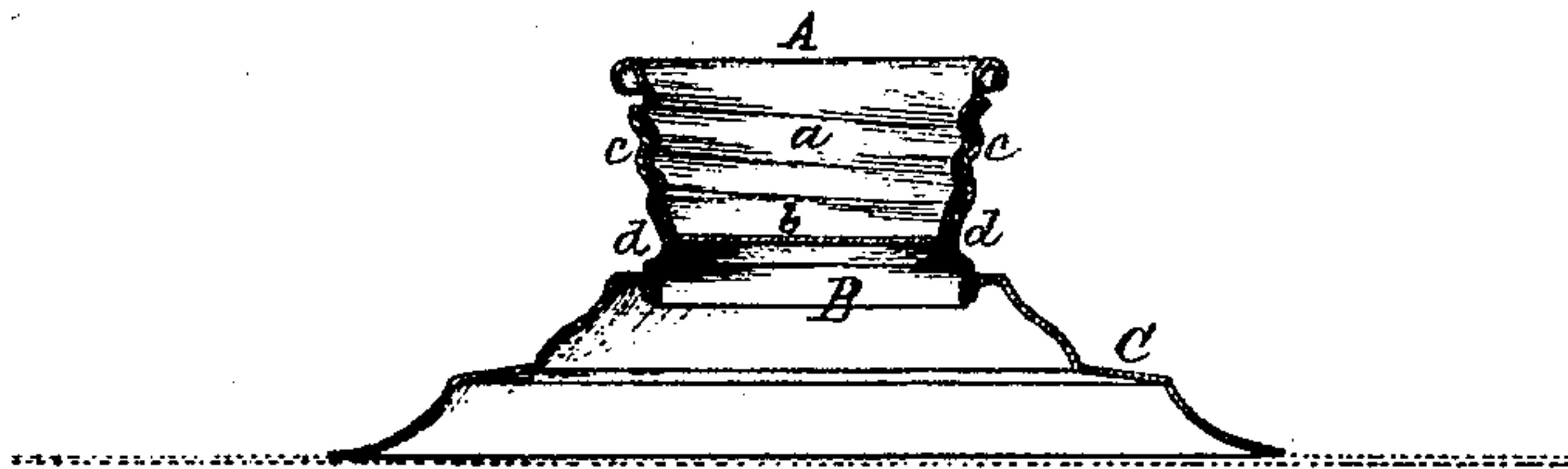


FIG. 2.



Mellen Bray
by his attorney
A. Folsom

WITNESSES.

M. Bailey
Wm. H. McGabe
" "

UNITED STATES PATENT OFFICE.

MELLEN BRAY, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN NOZZLES AND STOPPERS FOR CANS, &c.

Specification forming part of Letters Patent No. **103,420**, dated May 24, 1870.

To all whom it may concern:

Be it known that I, MELLEN BRAY, of Boston, county of Suffolk, and State of Massachusetts, have invented a new and Improved Nozzle and Stopper for Cans and other Vessels, of which the following is a specification.

My invention consists of a can-nozzle, provided with a screw-thread and a valve-seat, in combination with a stopper made of sheet metal, and provided with a conical valve-surface, and a screw-thread to fit the valve-seat and screw-thread of the nozzle into which it is screwed, as hereinafter described. The stopper is preferably made from a single or undivided piece of sheet metal, struck up or otherwise formed into the desired shape; and I also prefer to form the nozzle in a similar manner. The whole device is simple, easily and cheaply manufactured, and serves to seal and close the can tightly against the escape of the liquid or other substance which it may contain.

To enable those skilled in the art to make and use my invention, I will now proceed to describe the manner in which the same is or may be carried into effect, by reference to the accompanying drawings, in which—

Figure 1 is an elevation of the stopper detached from the nozzle. Fig. 2 is a vertical central section through the nozzle and stopper when the same are fitted together.

The stopper A is formed from a single piece of sheet metal, struck up in the cup form shown in the drawings, and provided with a screw-thread around its upper part, and a conical valve-surface, *b*, around its lower end.

The nozzle B (shown in Fig. 2) is attached to the can C or other vessel, in the usual manner, and, like the stopper, is struck up from a single or undivided sheet of metal, with a screw-thread, *c*, to receive the screw-thread *a*

of the stopper, and a circular valve-seat, *d*, below the screw-thread *c* to receive the conical valve end *b* of the stopper. In closing the can, the stopper is screwed into the nozzle until the conical valve-surface *b* is forced tightly against the valve-seat *d*, and the can is thus securely sealed against the escape of any of its contents. The conical valve, owing to the comparatively thin metal of which it is made, will, when jammed against the valve-seat, fit it perfectly. By forming the nozzle and stopper each of an undivided piece of sheet metal, they can be produced with great ease, while they are stronger and better in every way than when made with joints or of two or more pieces.

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

1. The screw-threaded and conical valve-stopper, in combination with the screw-threaded nozzle, provided with a circular valve-seat to receive the conical valve portion of said stopper, as shown and set forth.

2. The stopper formed from an undivided piece of metal, and provided with a conical valve-surface and an exterior screw-thread, substantially as set forth.

3. A can-nozzle formed from an undivided piece of sheet metal, and provided with an internal screw-thread, and a valve-seat to receive the valve and thread of the stopper, substantially as described.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

MELLEN BRAY.

Witnesses:

JOHN D. LONG,
ADDISON J. SEAWARD.