

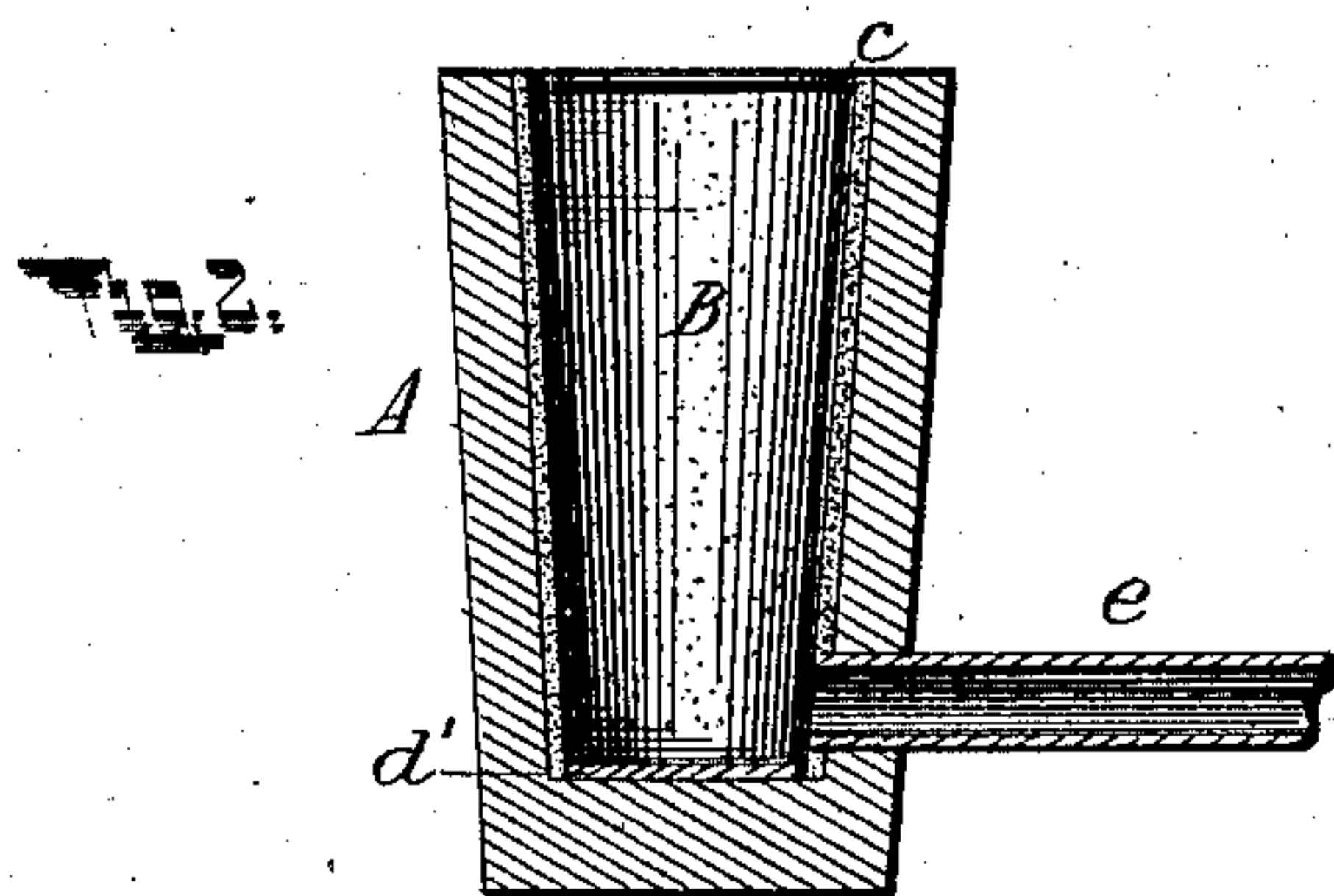
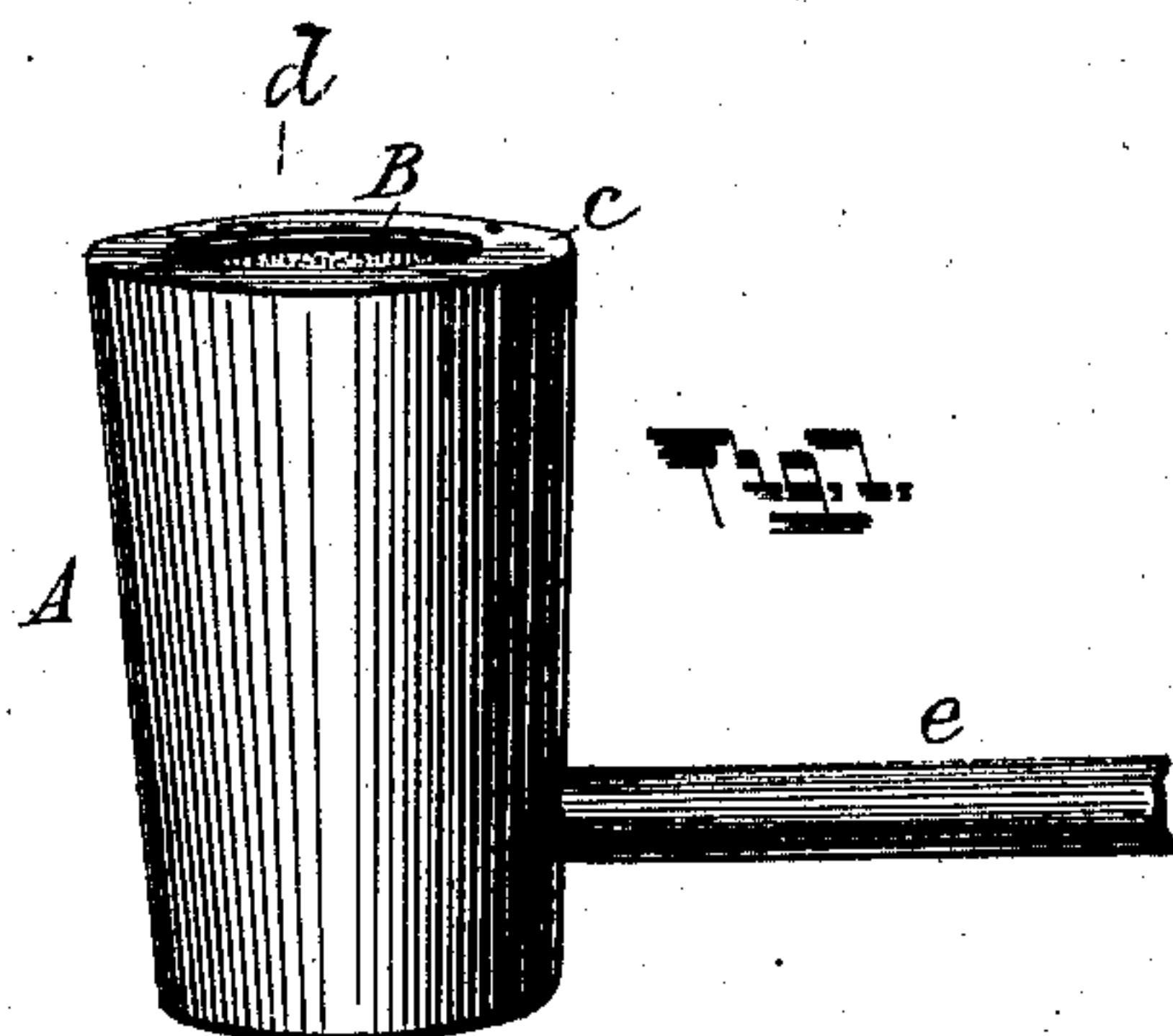
(No Model.)

C. E. DARLING & H. FREE.

TOBACCO PIPE.

No. 384,681.

Patented June 19, 1888.



Witnesses.

*Will T. Norton*  
*Susie Bates*

*Charles E. Darling*  
*Henry Free*

By their Attorney *Wm H. Bates*

# UNITED STATES PATENT OFFICE.

CHARLES E. DARLING AND HENRY FREE, OF LEWISTON, MAINE.

## TOBACCO-PIPE.

SPECIFICATION forming part of Letters Patent No. 384,681, dated June 19, 1888.

Application filed February 20, 1888. Serial No. 264,686. (No model.)

*To all whom it may concern:*

Be it known that we, CHARLES E. DARLING and HENRY FREE, citizens of the United States, residing at Lewiston, in the county of Androscoggin and State of Maine, have invented certain new and useful Improvements in Tobacco-Pipes; and we 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 improvements in tobacco smoking pipes, and it has for its object the employment or use of an asbestos lining seated in the bowl, and in connection therewith a horizontal annular metallic cap for securing the lining in place.

To these ends the invention consists in the combination of parts, as will be hereinafter more particularly described, and specifically pointed out in the claim.

In the accompanying drawings, to which reference is had, and which fully illustrate our invention, Figure 1 is a side elevation of the exterior of the pipe, and Fig. 2 is a side sectional view of the same.

Similar letters of reference indicate similar parts throughout both views.

In the drawings, A represents the bowl of a pipe, which is preferably made of wood, but, if desired, may be made of any suitable material. Seated within and around the inner walls of the bowl A is an asbestos lining, B, for the protection of the bowl from the burning tobacco. Secured within the bottom of the bowl is a circular metallic plate, *d'*, which protects the bottom of the bowl.

*c* is a horizontal annular metallic cap, which is detachably secured to the upper portion or mouth of the bowl by means of pins, which

are passed through a suitable number of holes made in the cap *c* near its inner edge. This cap *c* has an integrally-formed inner depending flange *d*, which serves to hold the asbestos lining B in place within the bowl, the said lining being held between the flange *d* and the inner wall of the bowl when the cap *c* is secured to the mouth of the bowl, as explained.

*e* is a stem, which is secured to the bowl A in the ordinary manner.

It will be obvious from the foregoing description that by such construction of pipe-bowls we produce advantages which are a desideratum in this class of inventions, among which are the convenience by which we can substitute one material of lining for another with facility, and also simplify and yet maintain durability, and by the use of the asbestos lining all foreign taste that ordinarily accompanies tobacco is avoided.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The herein-described pipe-bowl, having its interior lined with asbestos, a metal plate located in the bottom thereof, and an interiorly-flanged cap or ring located at the mouth thereof, said cap or ring having holes near its inner edge for the reception of pins for securing the said ring or cap to the mouth of the bowl, thereby retaining the asbestos lining in place, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

CHARLES E. DARLING.  
HENRY FREE.

Witnesses:

FRANK L. NOBLE,  
FRANK P. MANLEY.