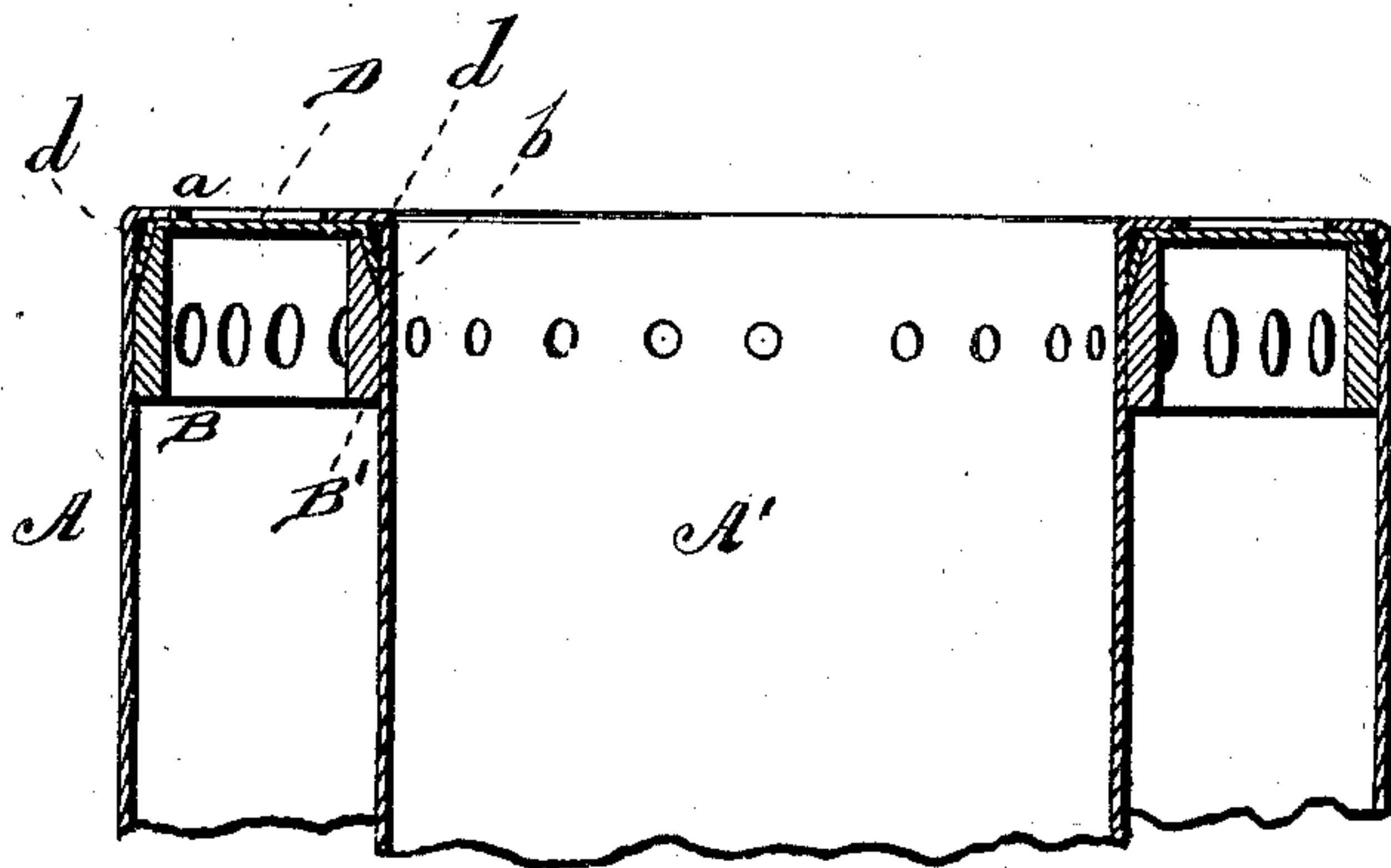
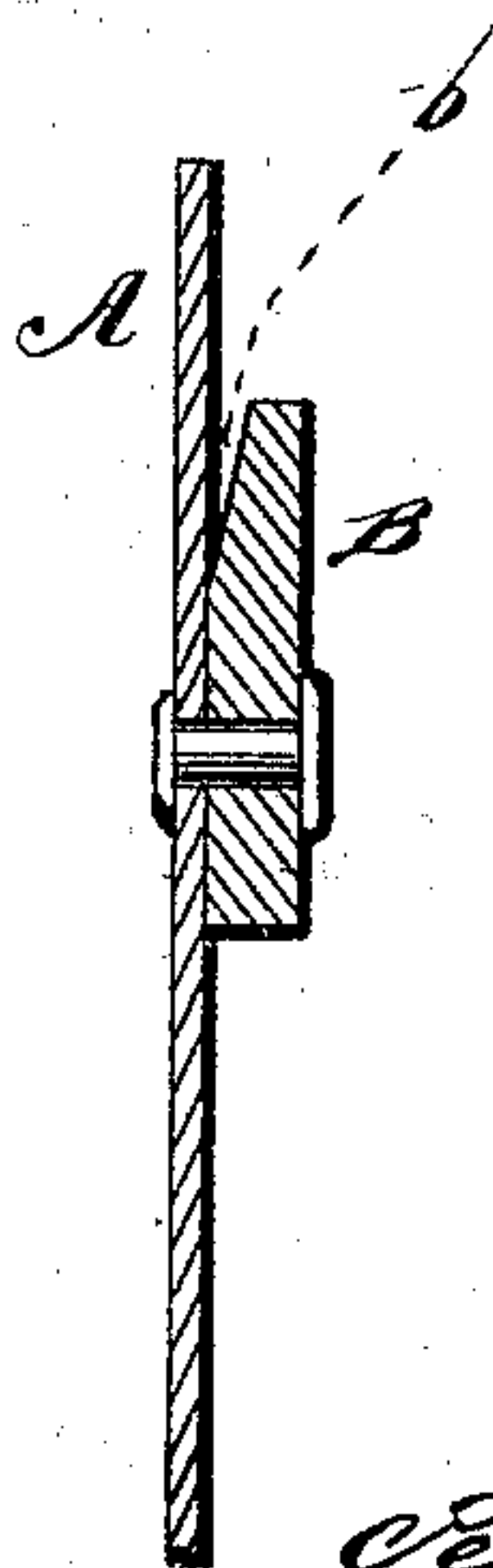


P. B. CLARK.  
Fastening Heads in Metal Cylinders.  
No. 199,794. Patented Jan. 29, 1878.

*Fig. 1.*



*Fig. 2.*



WITNESSES

*Robert Everett*  
*James J. Sheehy*

INVENTOR.

*Perry B. Clark.*  
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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

PERRY B. CLARK, OF MINNEAPOLIS, MINNESOTA.

## IMPROVEMENT IN FASTENING HEADS IN METAL CYLINDERS.

Specification forming part of Letters Patent No. **199,794**, dated January 29, 1878; application filed December 22, 1877.

*To all whom it may concern:*

Be it known that I, PERRY B. CLARK, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and valuable Improvement in Fastening Heads in Metal Cylinders; 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 sectional view of a cylinder-head embodying my method of fastening, and Fig. 2 is a sectional view of the same.

The nature of my invention consists in the construction and arrangement of a joint for uniting tubes or cylinders with plates—such as, for instance, the flues to the heads in a furnace or radiator, can-bodies to their heads, &c., as will be hereinafter more fully set forth.

The annexed drawing, to which reference is made, fully illustrates my invention.

A represents a tube or cylinder of any suitable dimensions, which is provided near the end on the inside with an iron band, B, riveted thereto. The outer edge of this band is beveled on the side next to the tube or cylinder, as shown at *b*.

D represents the plate or head, which is to be joined to the tube at the end. This plate

or head is formed with a flange, *d*, around its edge, which flange is inserted between the band or hoop B and the body A. The edge of the body A is then turned over inward against the head, as shown at *a*, thus completing the joint.

In the same manner a flue may be attached to its head by having the band on the outside of the flue, which is also represented in the drawing at A' and B'.

This invention is applicable for many and various purposes—as, for instance, uniting the flues of a stove, furnace, or radiator to the heads, can-bodies to their tops and bottoms, or for any other similar purposes, where heads are to be fastened to metal cylinders.

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

The means for fastening heads to metal cylinders, which consists in a beveled band or hoop fastened to a cylinder or tube, a head having a flange fitting over the beveled edge of said band or hoop, and the edge of the cylinder or tube turned over against the head, substantially as shown and set forth.

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

PERRY BAKER CLARK.

Witnesses:

H. V. SPOONER,  
FREEMAN P. LANE.