

R. L. Neill,

Boiler Tube Plug.

No. 104,759.

Patented June 28, 1870.

Fig. 1.

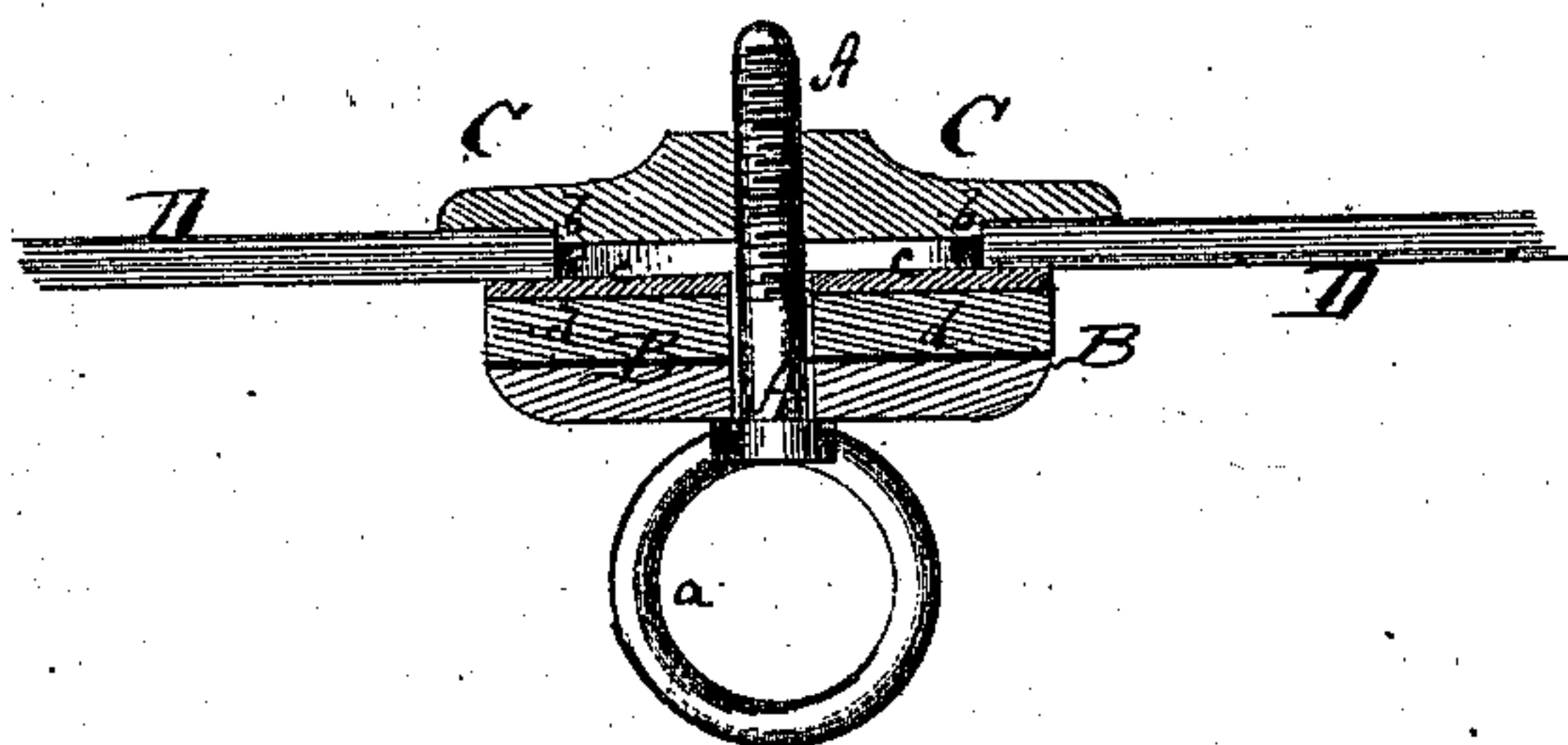


Fig. 2.

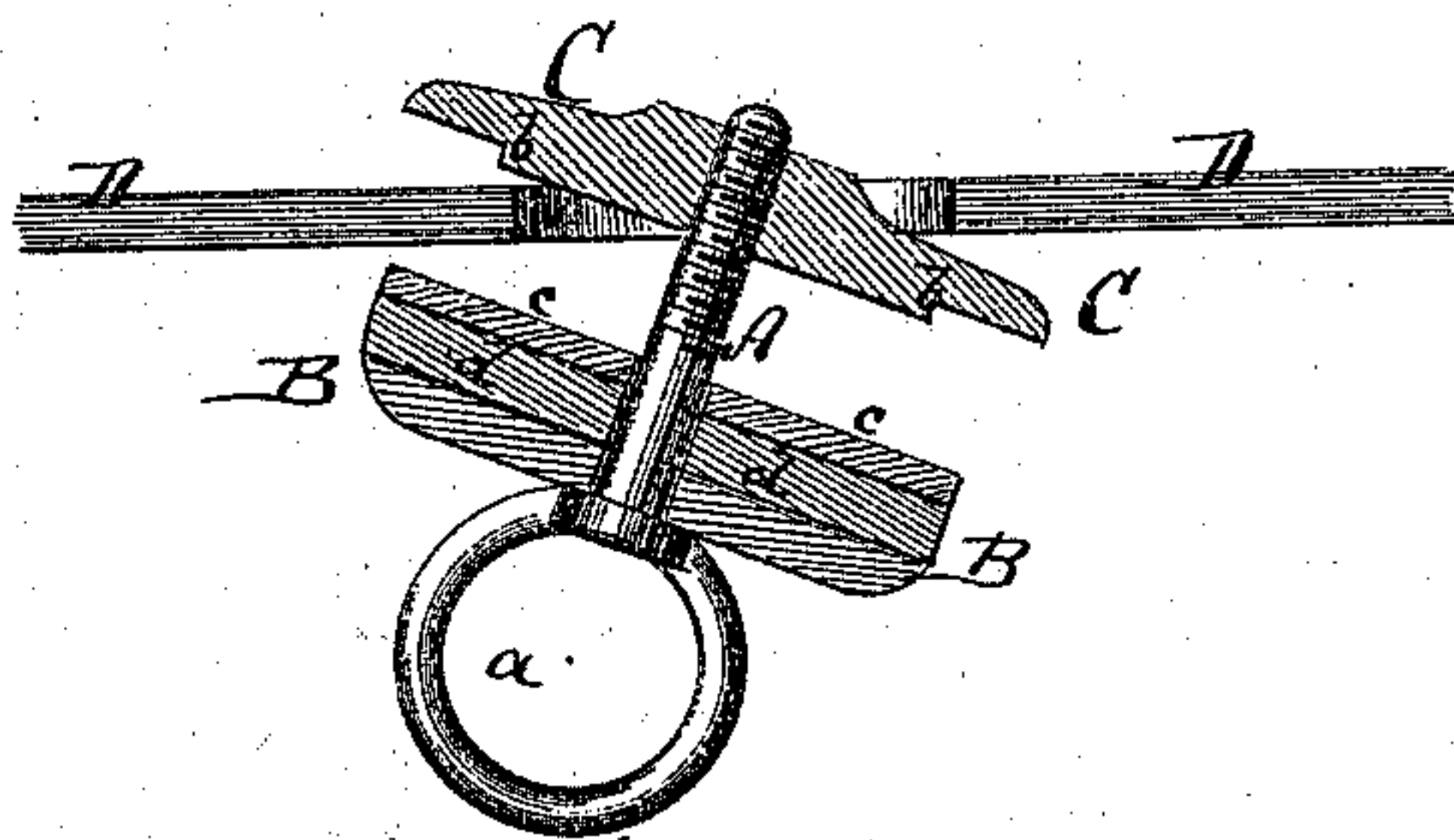
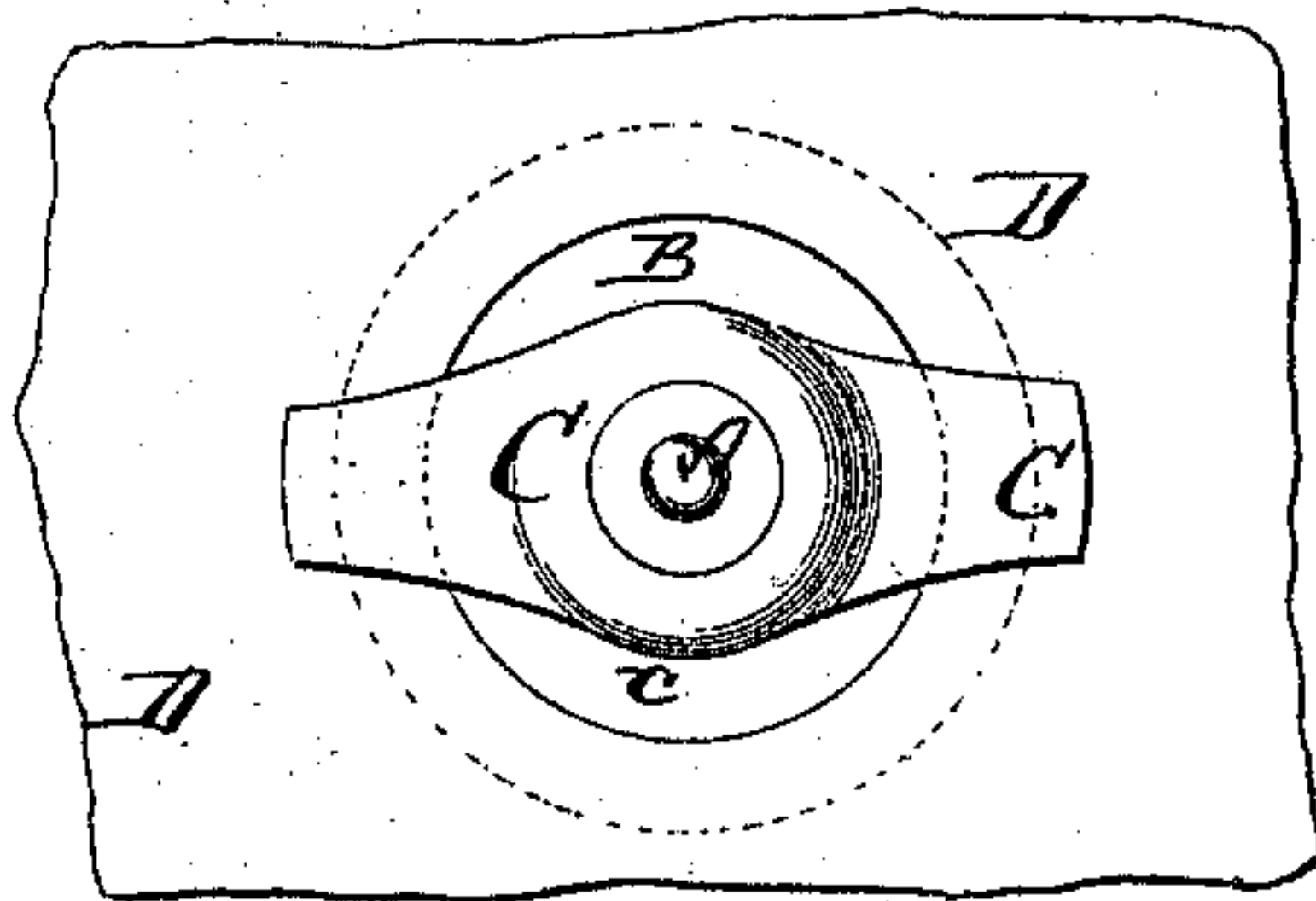


Fig. 3.



Witnesses:

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# United States Patent Office.

ROBERT LOUTHER NEILL, OF PATERSON, NEW JERSEY.

*Letters Patent No. 104,759, dated June 28, 1870.*

## BOILER-TUBE PLUG.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, ROBERT LOUTHER NEILL, of Paterson, in the county of Passaic and State of New Jersey, have invented a new and improved Boiler-Plug; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figures 1 and 2 are central sections of my improved boiler-plug, showing it in different positions.

Figure 3 is a back-end view of the same.

Similar letters of reference indicate corresponding parts.

This invention has for its object to economize boiler-plugs, which are, during the testing of the plates, used to close the holes that are provided for the reception of the tubes.

Heretofore conical wooden plugs were employed for that purpose, and driven into the holes of the boiler-plates. But, besides being far from reliable, these wooden plugs were made useless by one application, being torn by the sharp edges of the metal, and thereby unfit for further use.

My invention consists in constructing an adjustable plug, which will not be injured by ordinary wear, and which can be readily applied and removed before and after use.

My plug is composed of three principal pieces, A, B, and C.

A is a screw, of sufficient strength, with a head or handle, *a*, at its outer end.

B is a metal disk, made of metal or other suitable

material, fitted loosely upon the non-threaded outer part of the screw, so that it can freely turn on the same.

C is a plate screwed upon A.

The plate C is longer than the diameter of the hole to be plugged, but not as wide, as seen in fig. 3. It has two shoulders, *b b*, formed on it, they being so far apart as to fit snugly against the edges of the hole in the boiler-plate D, as shown in fig. 1.

The disk B may be placed against a packing-disk, *c*, of rubber, with a wooden disk, *d*, intervening.

The plug is applied by screwing the plate C to near the end of the screw, and then obliquely passing it through the hole in the boiler, as in fig. 2. When through, the plate is drawn against the inner face of the boiler-plate, and the screw turned until the plates B C are both tightly pressed against the respective outer and inner faces of the said plate, as in fig. 1. The hole is then securely plugged, and the boiler can be tested. Afterward the plug can be removed, to open the hole for the reception of the tubing.

Having thus described my invention,

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

As an article of manufacture, an improved boiler-plug, consisting of screw A *a*, loosely-fitted metal disk B, and the elongated plate C *b b*, all combined with packing rubber disk *c* and intervening wooden disk *d*, all relatively arranged as set forth.

ROBERT L. NEILL.

Witnesses:

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