(No Model.)

T. ROSE.

DEVICE FOR SECURING BOILER COVERINGS TO BOILERS.

No. 553,319. Patented Jan. 21, 1896.

Fig. 1.

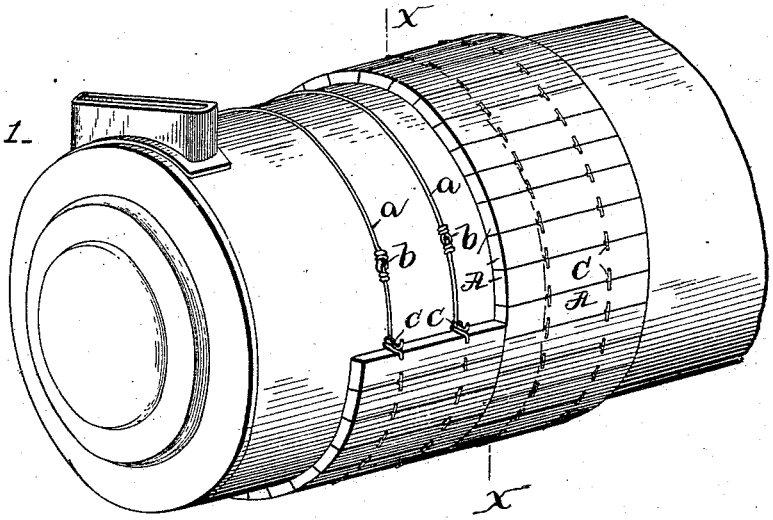


Fig. 2.

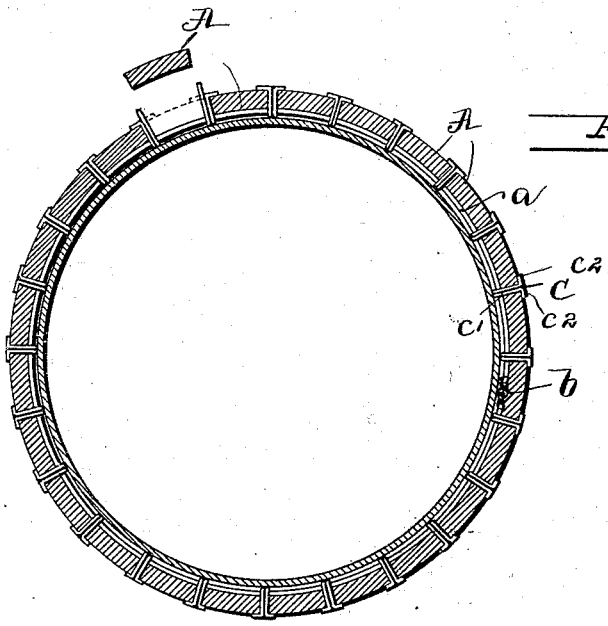
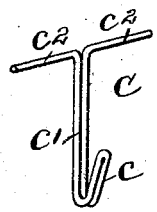


Fig. 3.



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UNITED STATES PATENT OFFICE.

THOMAS ROSE, OF AMBLER, PENNSYLVANIA, ASSIGNOR TO THE KEASBEY & MATTISON COMPANY, OF PENNSYLVANIA.

DEVICE FOR SECURING BOILER-COVERINGS TO BOILERS.

SPECIFICATION forming part of Letters Patent No. 553,319, dated January 21, 1896.

Application filed May 13, 1895. Serial No. 549,042. (No model.)

To all whom it may concern:

Be it known that I, THOMAS ROSE, a citizen of the United States, residing at Ambler, county of Montgomery, and State of Pennsylvania, have invented a new and useful Improvement in Devices for Securing Boiler-Coverings to Boilers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

I will first describe my improvement as illustrated in the drawings accompanying this application, and then specifically point out the invention and claim.

In the drawings, Figure 1 is a perspective view of a boiler with sectional non-heat-conducting cover, showing also the means for attaching the covering to the boiler. Fig. 2 is a section on line *x x*, Fig. 1. Fig. 3 is a perspective view of my improved hook for connecting and securing the covering to the boiler.

I have used my invention in practice for connecting magnesia covering to boilers. The magnesia covering is formed in sections, as shown by the letter A in the drawings, and is a well-known non-conductor of heat. The boiler to be covered is surrounded at suitable intervals with bands *a*, which are formed preferably of wire looped together at their ends, as shown in Fig. 1.

C, Fig. 3, is a retaining device having the hook portion *c*, the shank or web *c'*, and the projecting flanges c^2 at the end of the shank or web opposite to the hook. The hook portion *c* is passed around the wire *a* so that the hook rests between the wire and the surface of the boiler—that is, it is hooked to the wire or band *a*. While the retaining device engages the band or wire *a* it is not fixedly connected thereto, but is capable of longitudinal movement along said band. The section A of the covering is then inserted under the flange of the retaining device, the shank *c'* of the hook being of length equal to the thickness of the material A. Then another retaining device is placed in position as before and one of its shanks placed over the edge of the covering A opposite to that over which the flange of the other retaining device is placed, and so on successively until the boiler has been covered with a series of sections around its circumference, with the exception of the space of one section of the covering. At this point one of the flanges of the retaining device used with the first section and with the section preceding the one to be inserted is bent upward, as shown in Fig. 2, when the last section is inserted and the flanges bent down. The use of this retaining device C enables the sections of the covering to be secured to the boiler through the medium of the wire *a*, and also enables any one or all of the sections to be readily removed by bringing the flanges of its retaining device into the position parallel with the shanks or web *c'* and then removing the section or sections desired.

The capacity which the retaining device has of longitudinal movement on the wire or band enables cover-sections of varying width to be readily secured, as the retaining devices may be moved to accommodate themselves to the varying width of strips and position of the cover-sections.

As shown in Fig. 3, in the preferred form the retaining device is made from a single wire.

Having now fully described my invention, what I claim, and desire to protect by Letters Patent, is—

In a device for securing a boiler covering to a boiler, the combination with a band passing around the boiler, of a retaining device provided with flanges, said device engaging, but not fixedly secured to said band, the shank of which is of a height substantially equal to the thickness of the protecting material, the flanges of said retaining device being adapted to overlie said protecting material.

In testimony of which invention I have hereunto set my hand.

THOMAS ROSE.

Witnesses:
GEO. W. REED,
PHILIP BOUTELJÉ.