J. P. BAUER & F. C. STIMMEL.

BOILER HANGER.

APPLICATION FILED AUG. 10, 1908.

979,732. Patented Dec. 27, 1910.

Fig. 1

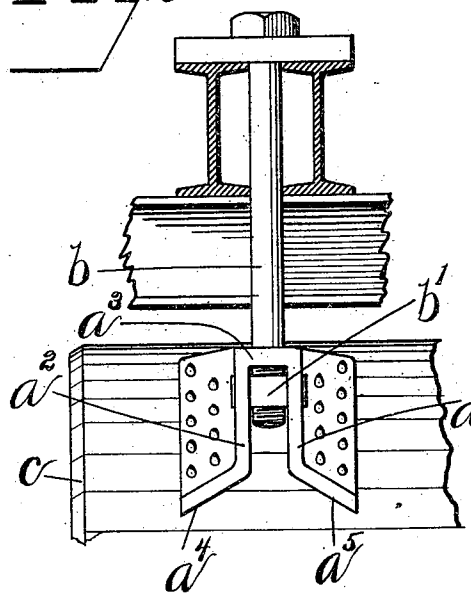


Fig. 2

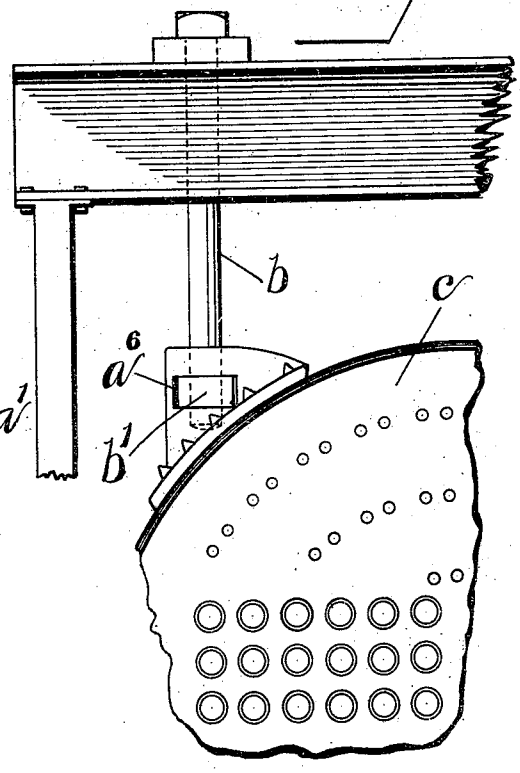


Fig. 3

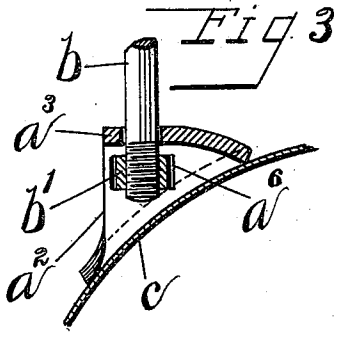
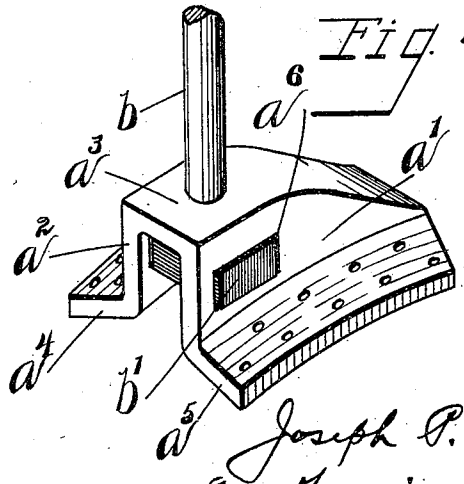


Fig. 4



Witnesses

Oliver T. Clarke

Chas. F. Welch

Inventors

Joseph P. Bauer

and Frederick C. Stimmel

By Staley & Bowman Attorneys

UNITED STATES PATENT OFFICE.

JOSEPH P. BAUER AND FREDERICK C. STIMMEL, OF CHATTANOOGA, TENNESSEE, ASSIGNORS TO THE CASEY-HEDGES COMPANY, OF CHATTANOOGA, TENNESSEE, A CORPORATION OF OHIO.

BOILER-HANGER.

979,732. Specification of Letters Patent. **Patented Dec. 27, 1910.**

Application filed August 10, 1908. Serial No. 447,829.

To all whom it may concern:

Be it known that we, JOSEPH P. BAUER and FREDERICK C. STIMMEL, citizens of the United States, residing at Chattanooga, in the county of Hamilton and State of Tennessee, have invented certain new and useful Improvements in Boiler-Hangers, of which the following is a specification.

This invention relates to improvements in boiler hangers.

The object of the invention is to provide a hanger strong in its construction, simple and cheap to make and effective in its operation.

A further object is to so construct the hanger that it may be applied to the boiler near the top thereof, thus removing it from the brick-work and away from the point of greater heat, and also one which may be used with any style of boiler.

The invention consists in the constructions and combinations of parts hereinafter described and set forth in the claims.

Figure 1 is a side elevation of a boiler, showing our improved hanger applied thereto, together with the support for the boiler. Fig. 2 is a front elevation of the same. Fig. 3 is a vertical sectional view through the hanger, showing the hanger rod in position. Fig. 4 is a perspective view of the hanger with the rod applied thereto.

Like parts are represented by similar characters of reference in the several views.

The hanger proper is constructed from a single integral plate of metal, so bent as to form two vertical walls, a^1 a^2, each having on its lower edge a laterally extending flange, a^4 a^5, and being connected together at the top by a web-portion a^3. The flanges, a^4 and a^5, are curved to conform to the shape of the boiler and are perforated to receive rivets for the purpose of securing the hanger to the boiler. Each of the walls has an opening, a^6, and the connecting web, a^3, is perforated to receive the hanger rod, b. The lower end of the rod is screw-threaded to receive a nut or bar, b^1, which extends through the openings, a^6, at either end and forms the means for connecting the rod to the hanger. The distance between the walls, a^2 and a^1, is preferably about equal to the diameter of the rod, b, so that a minimum amount of metal will be required.

In order that the web, a^3, may preferably stand horizontal so as to bring the perforation therein in line with the vertical axis of the rod, b, the plate forming the hanger is so bent that the upper edges of the walls will be on an incline with reference to the flanges, a^4, a^5, thus bringing the connecting web at an incline to the said flanges, so that when the hanger is in its proper position on the boiler the web will be in a substantially horizontal plane. This will be accomplished by having one of the sides of the blank plate, from which the hanger is formed, longer than the other side, and so bending the plate that the connecting flanges, a^4 a^5, will be parallel and equally separated, the extra metal of the one side of the plate causing the walls, a^1 and a^2, to be much higher at this end and gradually taper down toward the other side of the plate.

It will be seen that by this construction a very strong hanger is secured, as the strain is brought vertically on the walls a^1 and a^2, which are braced at their upper ends by the integral connecting web; thus there can be no tendency to spread the walls. The structure also provides for permitting the application of the hanger high up on the boiler to remove it from the heat as much as possible, and the hanger may be readily applied to any style of boiler.

Having thus described our invention, we claim:

1. A boiler hanger comprising, two vertical walls having an apertured connecting web and attaching flanges; said walls having means for supporting a nut against vertical displacement in alinement with said web aperture, a nut supported by said supporting means and a threaded rod extending through said web aperture and secured into said supported nut; whereby the nut will be held in place when the rod is removed and while the rod is being screwed in.

2. A boiler hanger comprising, two verti-

cal walls having opposed slots, an apertured connecting web, and attaching flanges, an elongated nut mounted in the wall slots and a threaded rod extending through said web aperture and screwed into said supported nut; whereby the nut will be held in place during the insertion and removal of the rod.

In testimony whereof, we have hereunto set our hands this 1st day of Aug. 1908.

JOSEPH P. BAUER.
FREDERICK C. STIMMEL.

Witnesses:
E. RALPH SEITER,
JAMES M. BROWN.