

No. 744,300.

PATENTED NOV. 17, 1903.

J. A. DAILEY.
BOILER BRACE.

APPLICATION FILED JUNE 19, 1903.

NO MODEL.

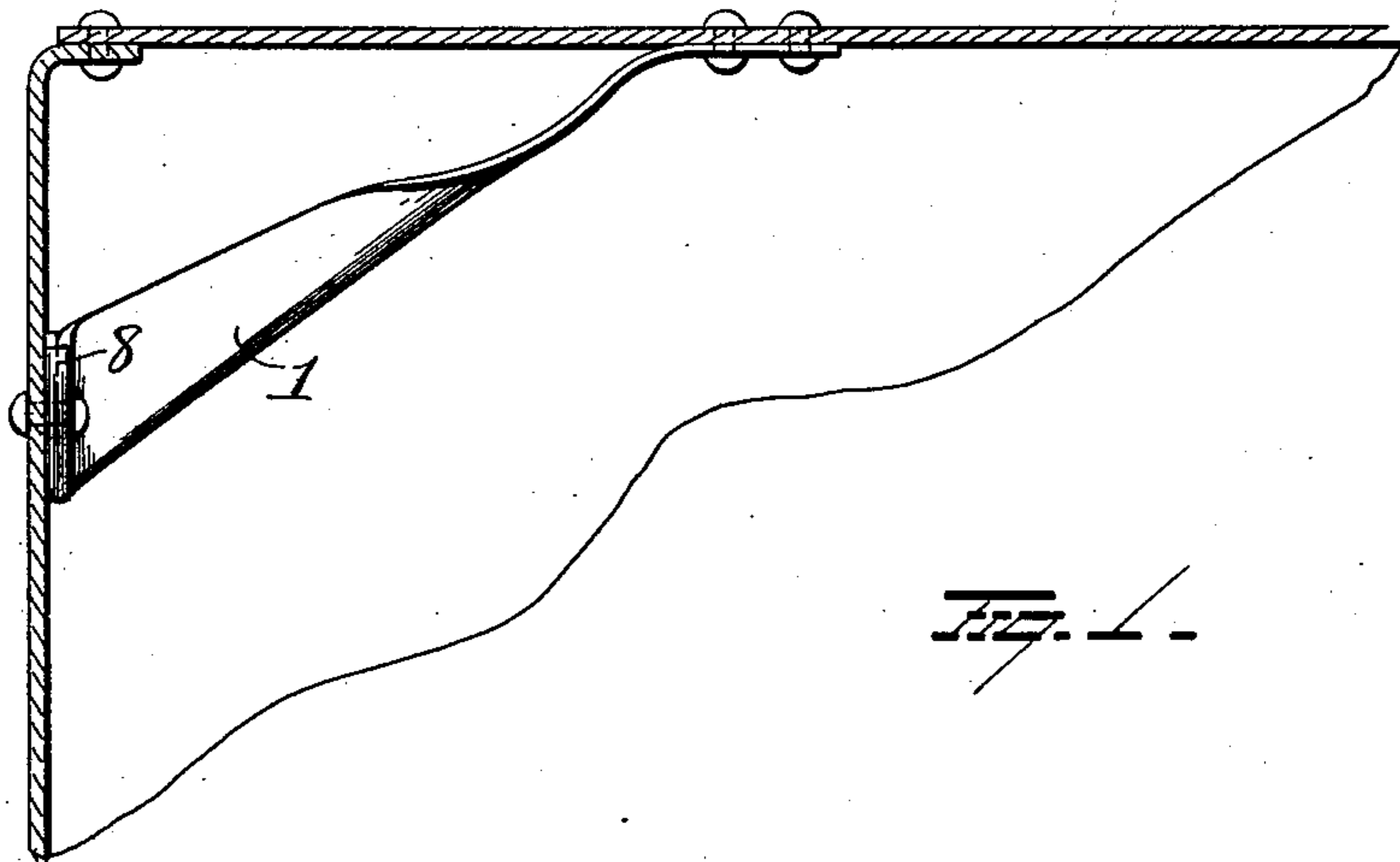


Fig. 1.

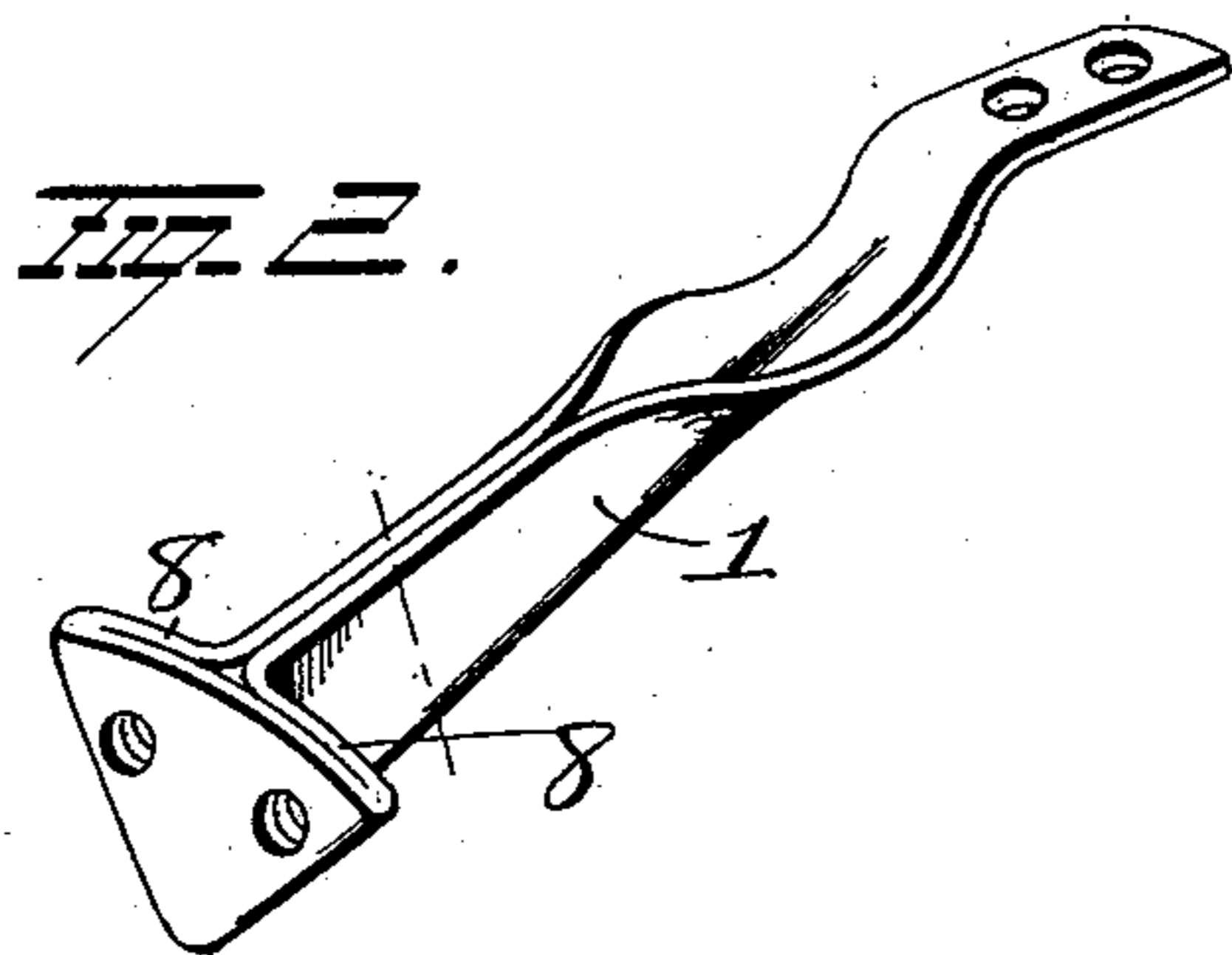


Fig. 2.

Fig. 3.

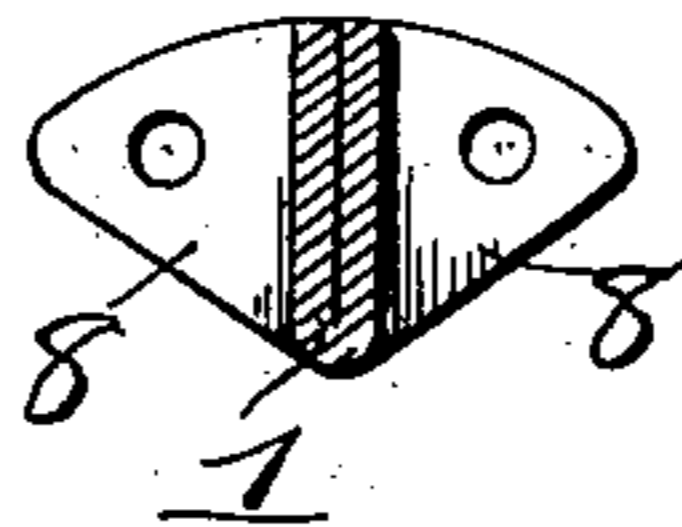
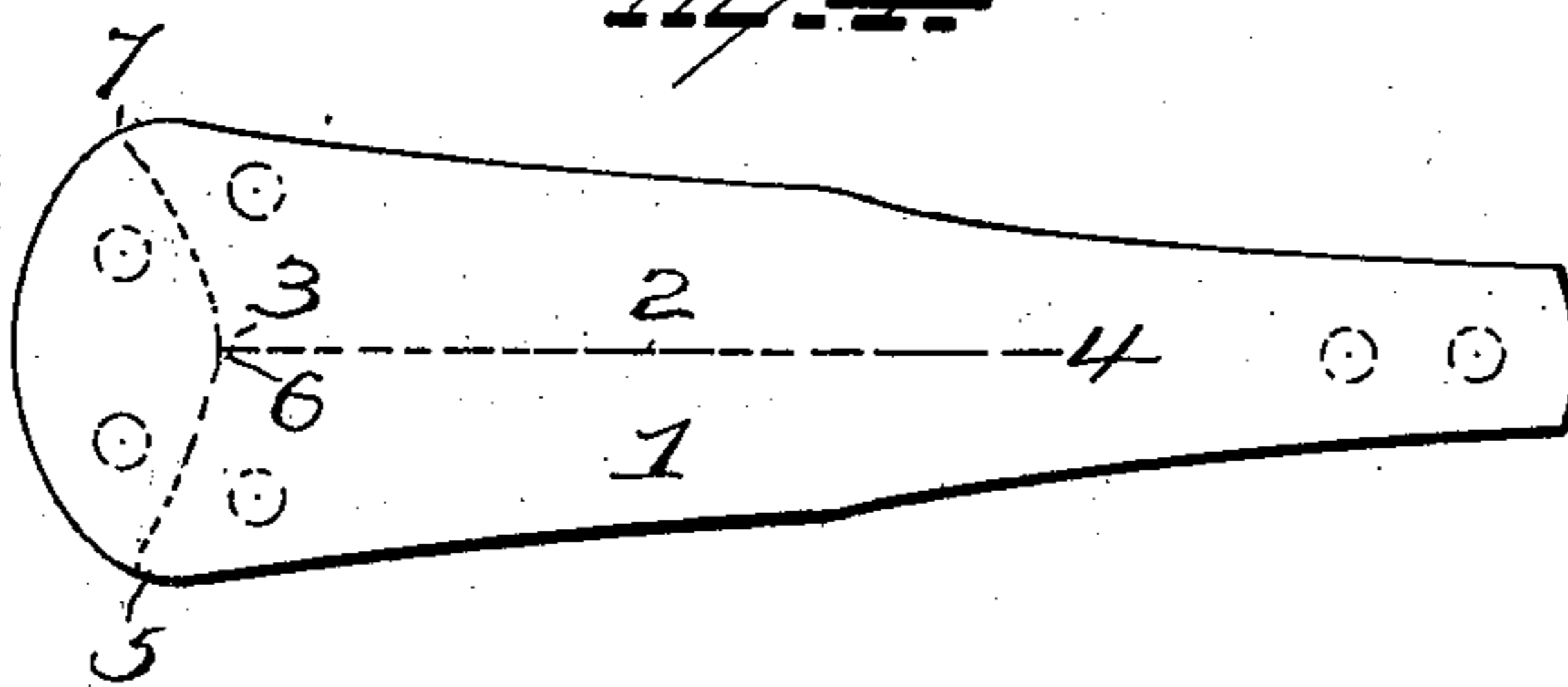


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN A. DAILEY, OF BURLINGTON, IOWA.

BOILER-BRACE.

SPECIFICATION forming part of Letters Patent No. 744,300, dated November 17, 1903.

Application filed June 19, 1903. Serial No. 162,277. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. DAILEY, a resident of Burlington, in the county of Des Moines and State of Iowa, have invented certain new and useful Improvements in Boiler-Braces; and I 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.

My invention relates to an improved boiler-brace, the object of the invention being to provide an improved sheet-steel or other sheet-metal brace bent in such manner as to be exceedingly strong and durable and a vast improvement over anything of this character heretofore known.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view illustrating my improvements in operative position. Fig. 2 is a top plan view. Fig. 3 is a view in section, and Fig. 4 is a view of the blank from which the brace is made.

1 represents the blank, which is of heavy sheet-steel or other sheet metal, gradually tapering or widening from end to end and the wider end rounded or shaped as shown for a purpose which will hereinafter appear.

The blank 1 is bent on its longitudinal center line 2 from the points 3 to 4 to bring the two side edges together for the desired distance, and the rounded end of the blank is bent on the lines 5 6 7 against the wings 8, forming a doubled end without splitting the blank in the slightest. This double end is made with openings to receive bolts or rivets to secure it to the boiler-head, and the flat narrower end of the brace is bent to rest against the side wall of the boiler and is perforated for the reception of bolts or rivets to rigidly secure it thereto.

By constructing my improved brace as above explained it is exceedingly strong and durable and one in which the bent sides or ears of the ends cannot separate or the sides separate or either move in any manner, as

they are held together not only by the peculiar bending of the end, but also by means of the rivets or bolts passed through the doubled end, and this is an improvement over anything heretofore known.

Slight changes might be made in the general form and arrangement of the parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A brace composed of sheet metal bent longitudinally throughout a portion of its length and one end bent up against and made to lie parallel with wings formed by the longitudinal and lateral bending.

2. A brace composed of an integral sheet-metal blank, bent longitudinally at its center throughout a portion of its length and bent laterally at its end forming double thick integral wings or ears.

3. A brace, composed of an integral sheet-metal blank, bent longitudinally at its center throughout a portion of its length, bent laterally at one end up against and parallel with wings formed by the longitudinal and lateral bending, and the other end bent or curved substantially as shown.

4. A brace composed of an integral sheet-metal blank tapering or widening from end to end and rounded at its wider end, said blank bent upon its longitudinal center for a short distance, the rounded end then bent up against wings formed by the longitudinal and lateral bending, and the doubled wings formed at the end perforated and the narrower end of the blank bent as shown and perforated.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN A. DAILEY.

Witnesses:

JNO. J. SEERLEY,
MARY FAWCETT.