No. 844,494. PATENTED FEB. 19, 1907.

T. C. BEST.

BRACKET.

APPLICATION FILED OCT. 26, 1906.

Fig. 1.

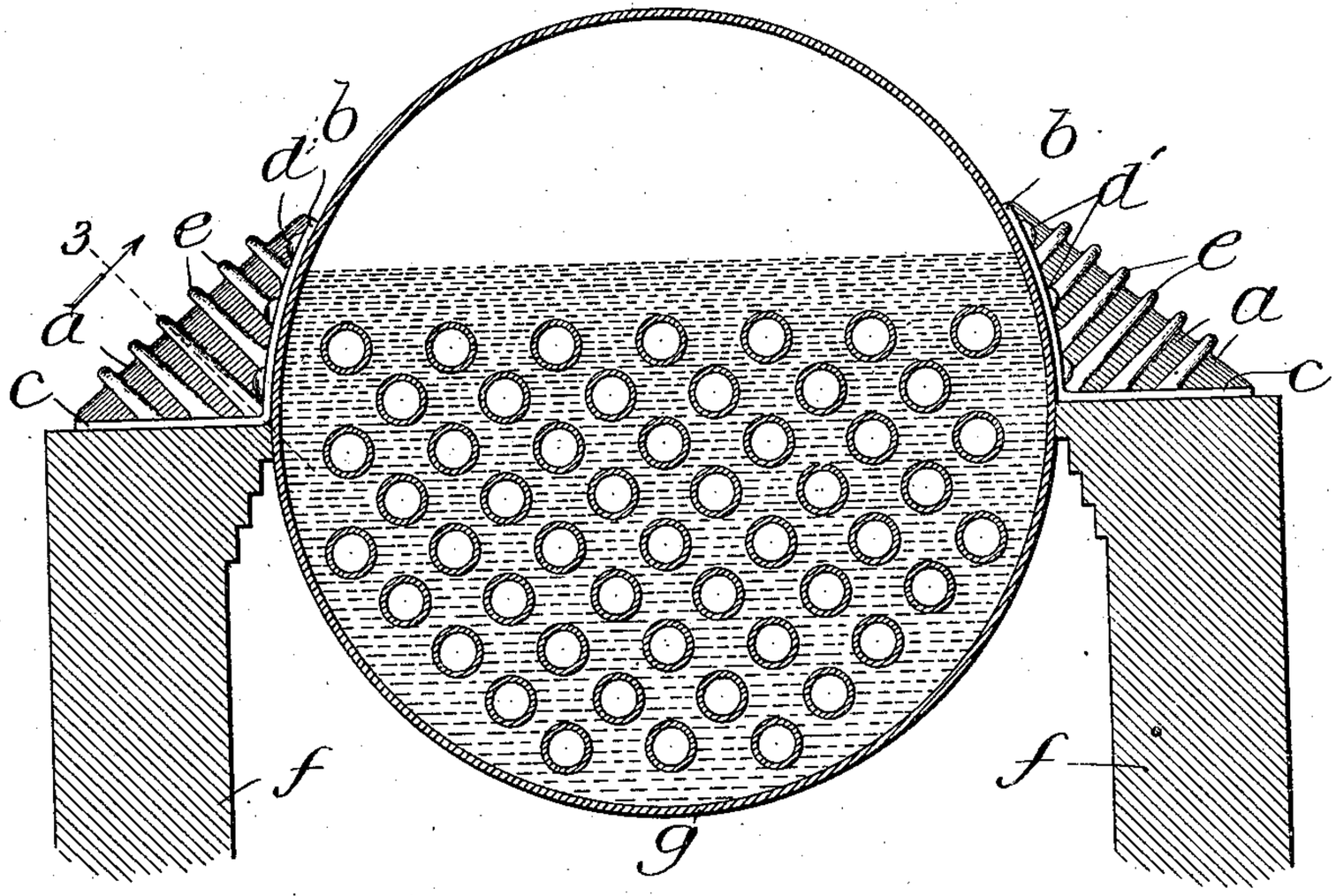


Fig. 2.

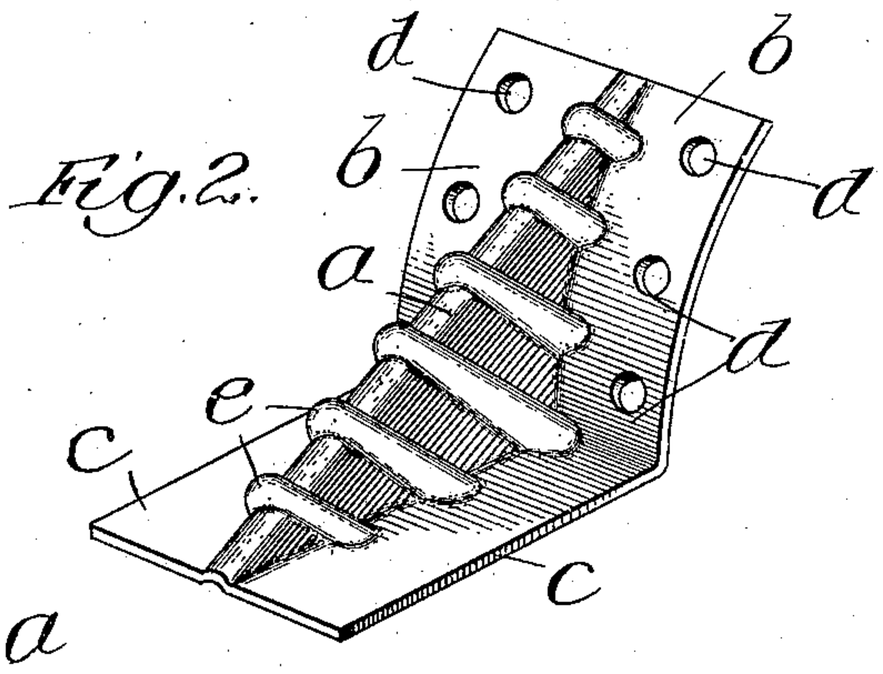


Fig. 4.

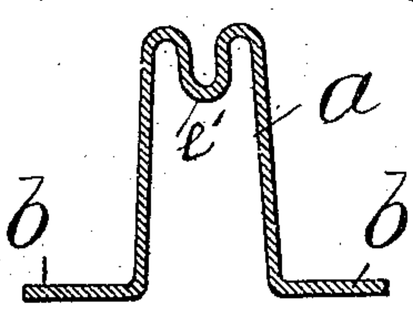


Fig. 3.

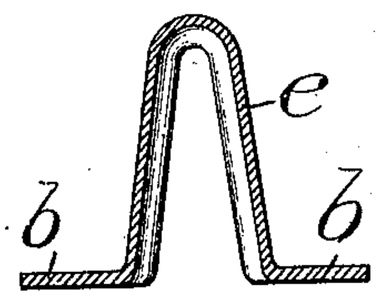
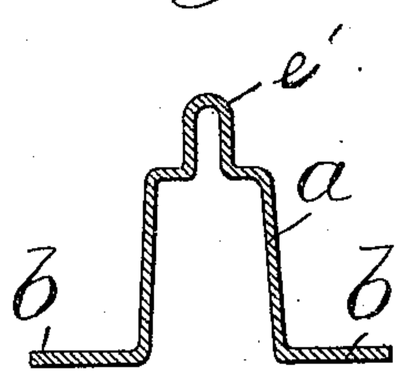


Fig. 5.



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UNITED STATES PATENT OFFICE.

THOMAS C. BEST, OF CHICAGO, ILLINOIS.

BRACKET.

No. 844,494. Specification of Letters Patent. Patented Feb. 19, 1907.

Application filed October 26, 1906. Serial No. 340,741.

To all whom it may concern:

Be it known that I, THOMAS C. BEST, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Brackets, of which the following is a specification.

My invention relates particularly to brackets used in combination with structural steel-work—as, for example, a boiler upon its foundation or supporting walls—and has for its object to provide a simple, efficient, and economical bracket in which the maximum strength is combined with a minimum weight.

In the accompanying drawings, Figure 1 is a transverse section of a tubular boiler with my improved bracket attached thereto. Fig. 2 is a perspective view of one of the brackets. Fig. 3 is a transverse section on the line 3 of Fig. 1. Figs. 4 and 5 are transverse sections of modified forms of bracket, showing different arrangements of the corrugations.

In carrying out my invention I form a bracket from ductile metal, preferably steel, by pressing a suitably-formed blank in dies, so as to form a lug, such as shown in Fig. 2, having a central strengthening-rib *a*, with flanges *b* and *c* on each side thereof, the flanges *c* being adapted to rest, for example, upon the foundation-walls *f* of the boiler, while the flanges *b* are arranged at an angle to the flanges *c* and are provided with openings *d* for the reception of fastening devices *d'*, by means of which the lug is attached to the boiler. The rib *a* is strengthened by a series of corrugations *e*, preferably arranged, as shown, at right angles to the rib *a* and parallel thereon.

The advantages of pressed steel as material for brackets of this class are well known, as brackets formed of this material may be made with a minimum weight. They are not liable to fracture during the operation of riveting them to the boilers, nor are they liable to fracture owing to the difference in the coefficient of expansion between the material of the bracket and the material of the boiler.

While I have shown and described my invention in one form, I do not desire to be limited thereto, as it is apparent that changes may be made in the disposition of the strengthening-rib and corrugations thereon as circumstances may render necessary or desirable. For example, instead of arranging the corrugations transversely of the bracket, as shown in Figs. 1, 2, and 3, I may arrange such corrugations longitudinally, as shown in Figs. 4 and 5, in which figures the corrugations are shown at *e'*. So, also, while in the specific embodiment of my invention I have shown the bracket as used in supporting a boiler I do not wish to be understood that the invention is limited in application to such a use, for it is apparent that it may be used in many places where structural steel or iron work is employed. So, also, I may use other metal, such as wrought-iron, in place of steel in the manufacture of my improved bracket.

I claim—

1. A bracket formed of an integral piece of ductile metal and having a strengthening-rib, said strengthening-rib being provided with corrugated portions.

2. A bracket formed of an integral piece of ductile metal and having a substantially U-shaped strengthening-rib, said strengthening-rib being provided with corrugated portions.

3. A bracket formed of an integral piece of ductile metal and having a strengthening-rib, said strengthening-rib being provided with transverse corrugated portions.

4. A bracket formed of an integral piece of ductile metal and having a substantially U-shaped strengthening-rib, said strengthening-rib being provided with transverse parallel corrugated portions.

5. A bracket formed of an integral piece of ductile metal and having a longitudinal strengthening-rib, flanges on each side of the strengthening-rib, said strengthening-rib having corrugations extending transversely thereof and extending from one side flange to the other side flange.

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