No. 782,290. PATENTED FEB. 14, 1905.

S. D. TOMPKINS.

BOILER PATCH.

APPLICATION FILED AUG. 15, 1904.

Fig. 2

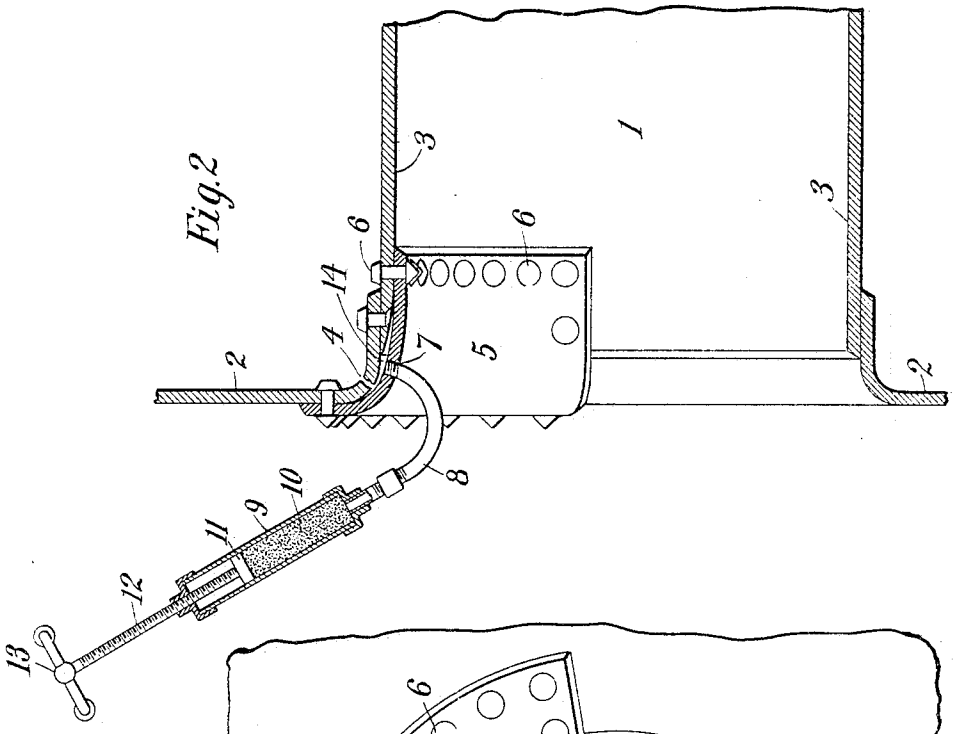
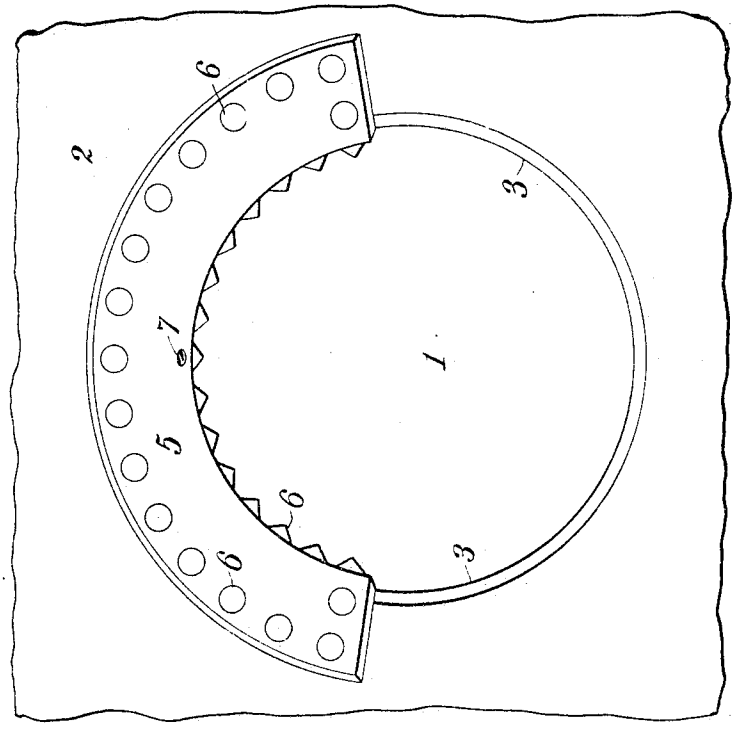


Fig. 1



Witnesses:
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by Cipfford & Pulle Attys.

No. 782,290. Patented February 14, 1905.

UNITED STATES PATENT OFFICE.

SAMUEL D. TOMPKINS, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO SMOOTH-ON MANUFACTURING COMPANY, A CORPORATION OF NEW JERSEY.

BOILER-PATCH.

SPECIFICATION forming part of Letters Patent No. 782,290, dated February 14, 1905.

Application filed August 15, 1904. Serial No. 220,786.

To all whom it may concern:

Be it known that I, SAMUEL D. TOMPKINS, a citizen of the United States, and a resident of Jersey City, in the county of Hudson and State of New Jersey, have invented a certain new and useful Improvement in Boiler-Patches, of which the following is a specification.

My invention relates to patches for boilers and analogous structures; and it consists of certain novel features which will be particularly pointed out in the claim concluding this specification.

In the accompanying drawings, Figure 1 shows the entrance to a fire-box of a boiler of the well-known "Scotch" type and illustrates the application of my invention. Fig. 2 is a longitudinal section of the same.

The following is a description of the drawings, which show my invention applied to a common type of boiler in the form in which I at present prefer to embody it. It will be understood, however, that the invention is applicable to other structures and that various modifications and changes may be made in the details of the same without departing from the spirit of my invention and without exceeding the scope of the concluding claim.

1 is the fire-box of a marine boiler of the Scotch type. 2 2 are the vertical plates of said boiler, and 3 3 the horizontal plates thereof.

4 is a rupture in one of the plates. 5 is a patch of metal placed over said rupture and overlapping the joints between the plates 2 and 3. This patch is secured to the plates by rivets 6 6, &c. An opening 7 is left in said patch, and into this opening is inserted the pipe 8 of the force-pump 9. This force-pump has a chamber 10 for containing a suitable cement. A cement suitable for the purpose is that known to the trade as the "Smooth-on elastic cement." The cement is forced from the pump by means of the plunger 11 and screw 12, attached to the handle 13. It passes through the pipe 8 and into the space 14 between the boiler-plates and the patch and also into the rupture 4.

It will be seen that the patch is first riveted to the boiler-plates. The pipe 8 of the force-pump is then attached to the hole 7 in the patch and the cement is subsequently forced into the space between the boiler-plates and the patch. The hole 7 is then plugged up and the patching is complete.

Having thus described my invention embodied in the form at present preferred by me, what I claim is—

The combination with a metal structure, of a metal patch attached thereto by rivets or equivalent devices, said patch being provided with an aperture adapted to permit the application of cement between the structure and the patch after it is attached thereto.

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

SAMUEL D. TOMPKINS.

Witnesses:
J. HAVILAND TOMPKINS,
FRANK H. PARCELLS.