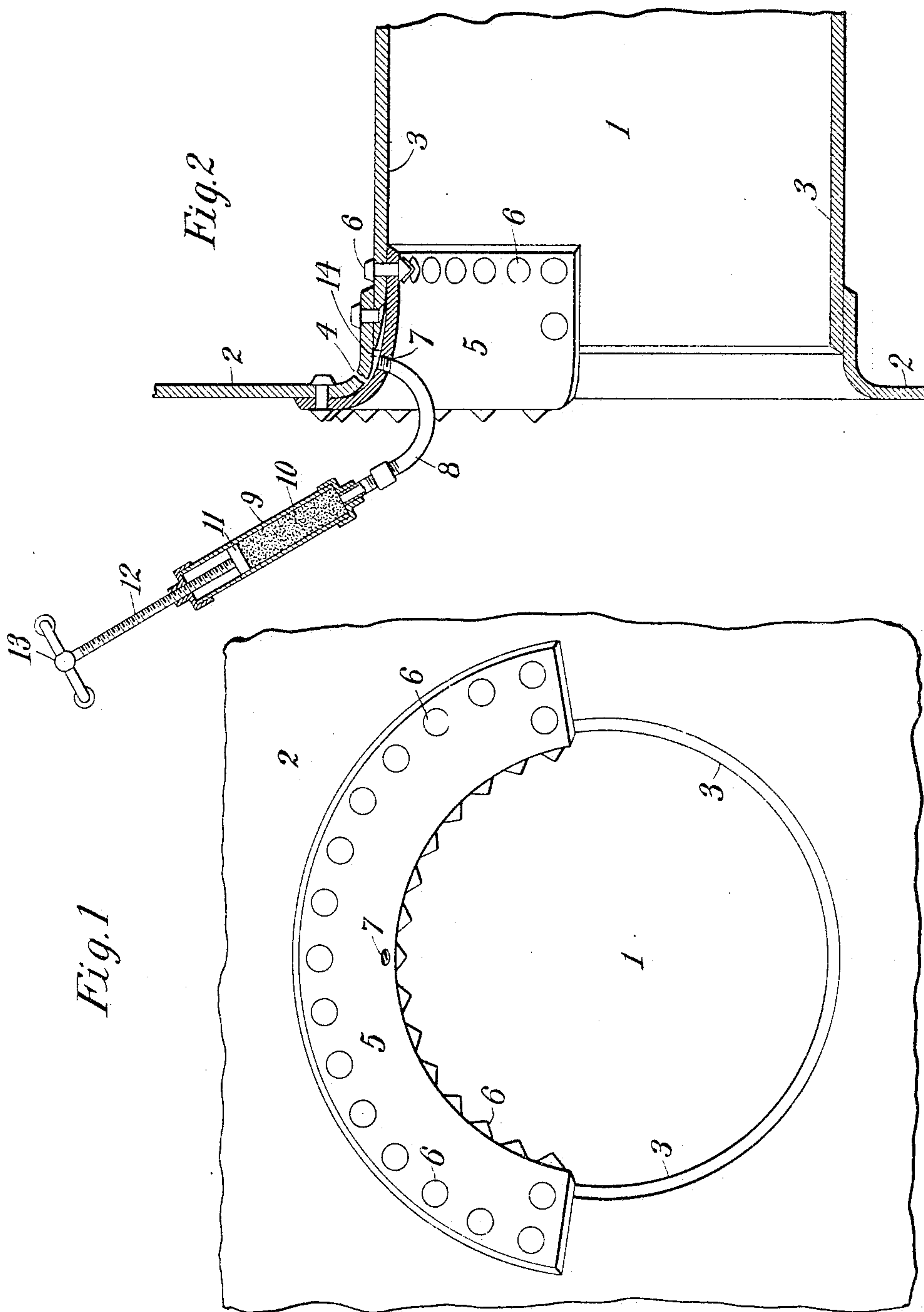


No. 782,290.

PATENTED FEB. 14, 1905.

S. D. TOMPKINS.
BOILER PATCH.

APPLICATION FILED AUG. 15, 1904.



Witnesses:
Walter A. Pauling
Samuel C. Yeaton Jr.

Inventor
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by *Spofford & Lee* Attys.

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
5 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 cer-
10 tain 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
15 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 draw-
20 ings, 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 de-
25 tails 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
30 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
35 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
40 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
45 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
50 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,
55 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 appli-
60 cation 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.