

(No Model.)

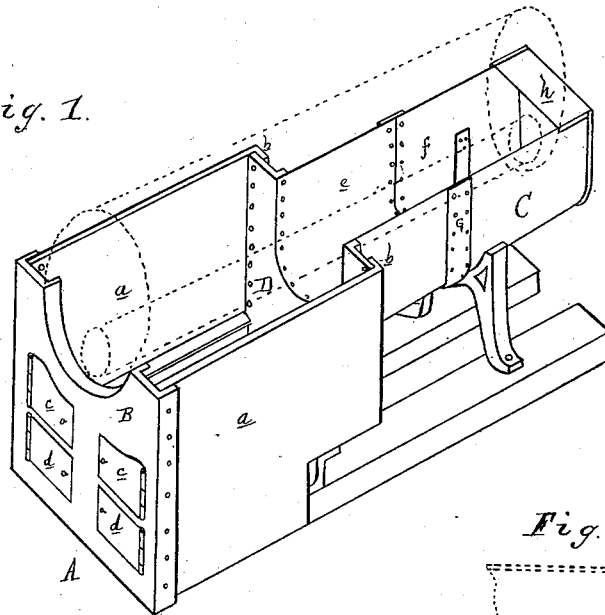
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PORTABLE ARCH FOR STEAM BOILERS.

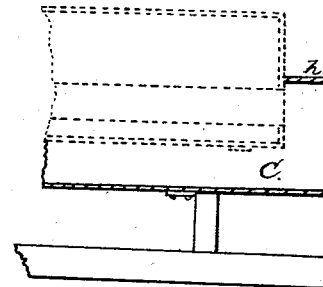
No. 264,151.

Patented Sept. 12, 1882.

*Fig. 1.*



*Fig. 2.*



Witness:  
*A. S. Sprague*  
*E. S. Sully*

By

Inventor:  
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*Att'y.*

# UNITED STATES PATENT OFFICE.

JOHN C. HAAG, OF LANSING, MICHIGAN.

## PORTABLE ARCH FOR STEAM-BOILERS.

SPECIFICATION forming part of Letters Patent No. 264,151, dated September 12, 1882.

Application filed July 5, 1882. (No model.)

### *To all whom it may concern:*

Be it known that I, JOHN C. HAAG, of Lansing, in the county of Ingham and State of Michigan, have invented new and useful Improvements in Portable Arches; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 The nature of this invention relates to certain new and useful improvements in the construction of portable arches or supports for portable steam-boilers; and the invention consists in the peculiar construction, arrangement, 15 and combinations of the various parts, all as more fully hereinafter set forth.

In the accompanying drawings, Figure 1 represents a perspective view of a portable arch constructed according to my improvement, with the boiler represented in dotted 20 lines; and Fig. 2, a vertical longitudinal section of the rear end thereof.

A represents the fire-box, constructed of cast-iron plates *a*, provided with the flanges *b*, 25 and to the front edges of these plates the front wall, *B*, is bolted, and is likewise of cast-iron, and is provided with the doors *c d*, usual in a boiler-furnace.

30 *C* represents a semicircular flue, which is constructed of boiler-iron, in two sections, *e f*, and are secured together by the band *G*, which is bolted to place, as shown. The section *f* is closed at its rear end, leaving a flue-space, *h*, and the front end of the section *e* is rigidly secured to the cast-iron plate *D*, which forms the 35 rear wall of the fire-box, and to the side walls, *a*, of which it is bolted through the flange *b*.

The entire top of the device so constructed

is open, and is designed to receive the boiler, which rests within the arch of the front wall 40 and fits snugly in the top of the combustion-chamber, while the space between the boiler and the side walls of the fire-box may be closed with a plate; or a course of brick may be laid up each side wall, so as to close this space and 45 protect the walls of the fire-box from the action of the fire.

A suitable breeching should be provided for covering the exposed end of the boiler, and a grate in the fire-box, as in the usual manner; 50 but as these form no part of my invention I neither show nor describe them.

It will be seen that this support can readily be taken apart and again set up, and enables me to use a boiler of greater capacity 55 for operating portable engines than in those constructions wherein the boiler and engine are built together; and should this boiler need repairs I can readily lift it out of its seat or support, repair, and replace it without disturb- 60 ing the engine.

What I claim as my invention is—

1. A sectional support for portable boilers, consisting of a fire-box and combustion-chamber detachably secured together, substantially 65 as specified.

2. A support or arch for portable boilers, consisting of the cast-iron walls *a*, *B*, and *D*, and sheet-iron combustion-chamber *C*, constructed in sections and detachably secured 70 together, substantially as set forth.

JOHN C. HAAG.

Witnesses:

H. S. SPRAGUE,  
E. SCULLY.