

W. H. WILSON.

SECTIONAL STEAM BOILER.

No. 187,692.

Patented Feb. 20, 1877.

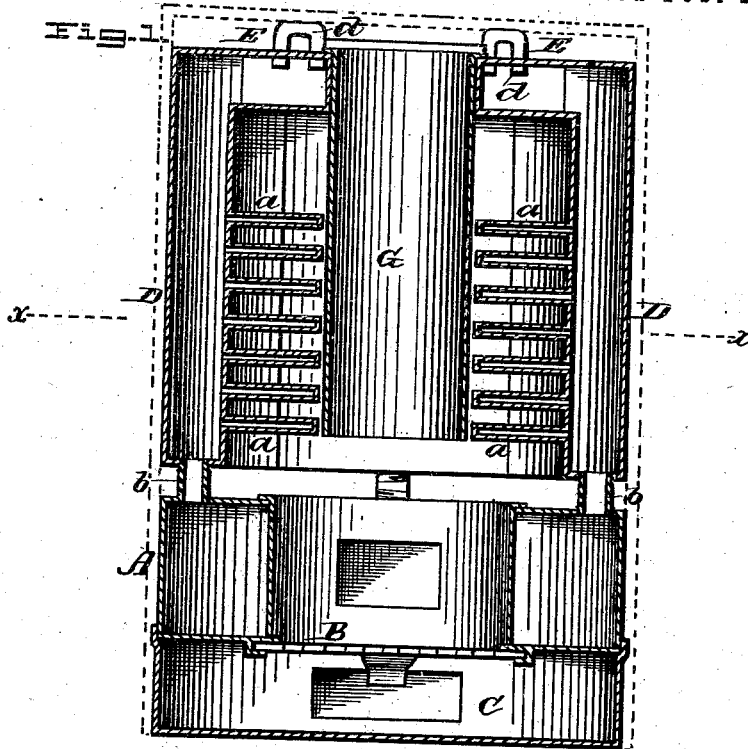
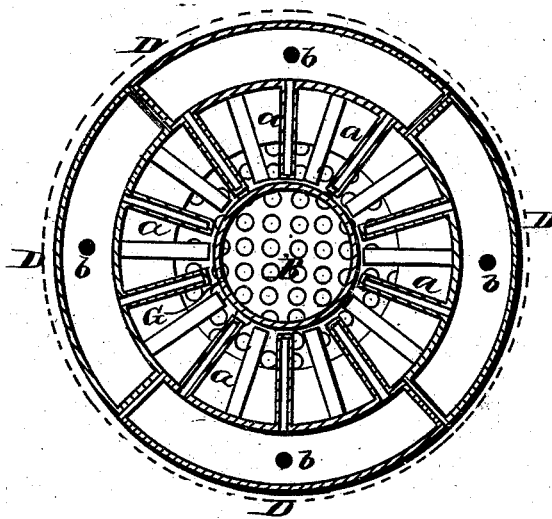


FIG. 2.



WITNESSES:

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*H. B. Brown*

INVENTOR:

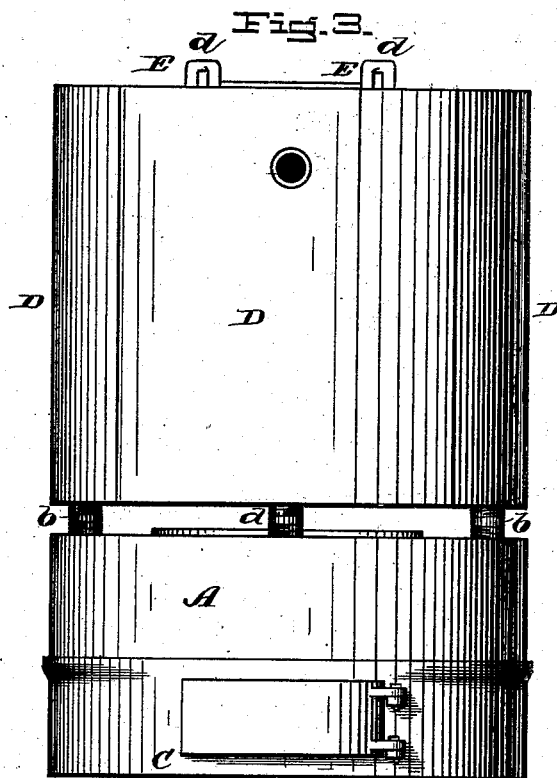
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*H. J. Abbot*  
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WITNESSES:

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# UNITED STATES PATENT OFFICE

WILLIAM H. WILSON, OF WESTFIELD, N. Y., ASSIGNOR OF TWO-THIRDS  
HIS RIGHT TO JAMES N. STEVENS AND ROLLIN D. ROCKWELL.

## IMPROVEMENT IN SECTIONAL STEAM-BOILERS.

Specification forming part of Letters Patent No. 187,692, dated February 20, 1877; application filed  
September 5, 1876.

*To all whom it may concern:*

Be it known that I, WM. H. WILSON, of Westfield, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Steam-Boilers, of which the following is a specification:

The nature of my invention consists in the construction and arrangement of a steam boiler or generator, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a vertical section of my invention; and Fig. 2 is a section taken on the line *x x*, Fig. 1.

A represents the base of my boiler, made in annular form, with a circular central orifice, under which is the sliding grate B, with ash-box or ash-pit C underneath.

The body of the boiler is composed of a series of segmental sections, D D, each having a horizontal segment, E, at the top, which latter, when the boiler is put up, come together in such a manner as to form a circular center opening in the top of the boiler, through which the magazine G is inserted. From the inner side of each section D extend a series of horizontal pipes, *a a*, radially inward to, or nearly to, the magazine. The ends of these pipes are plugged or otherwise closed.

The sections D are connected, by right-and-left-hand nipples *b*, with the base A at the bottom, and connected together at the top by return-bends *d*, making the base, pipes, and sections all connected for water and steam space, and steam can be taken from any one section, or from all, as may be desired.

By this construction I obtain a boiler of large heating-surface in small compass. It is portable, simple in construction, and can be manufactured at comparatively small cost. The magazine G is removable in order to clean the pipes and fire-box in the boiler.

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

1. In a steam-boiler, the combination of the annular base A and the segmental sections D, constructed so as to receive the removable magazine G, and connected together at the top and to the base at the bottom, substantially as herein set forth.

2 The combination of the annular base A with the sections D E, with pipes *a*, nipples *b*, and return-bends *d*, and the removable magazine G, all substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in the presence of two witnesses.

WM. H. WILSON.

Witnesses:

ROLLIN D. ROCKWELL,  
G. T. JEWETT.