

W. GOLDING.
Steam-Generators.

No. 144,088.

Patented Oct. 28, 1873.

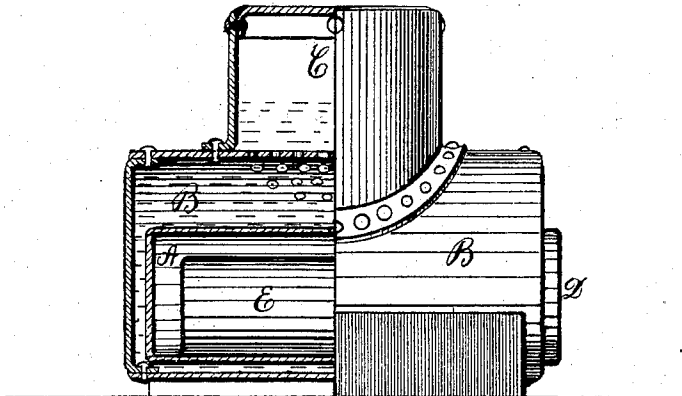


Fig. 1

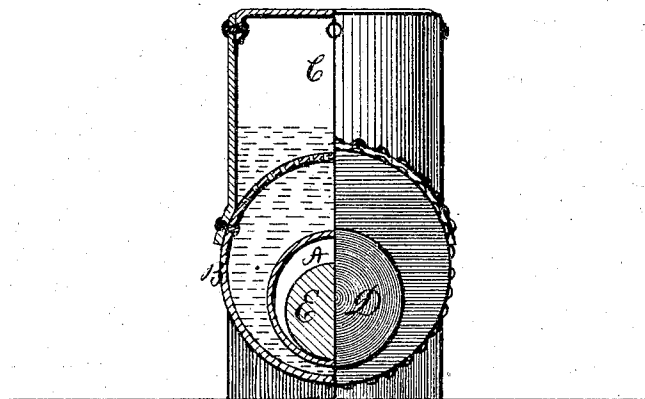


Fig. 2

WITNESSES:

H. A. Jenkins
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WILLIAM GOLDING, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN STEAM-GENERATORS.

Specification forming part of Letters Patent No. 144,088, dated October 28, 1873; application filed May 13, 1873.

To all whom it may concern:

Be it known that I, WILLIAM GOLDING, a resident of the city of New Orleans, parish of Orleans and State of Louisiana, have invented a new, useful, and Improved Steam-Generator; and I hereby declare the following to be a full, clear, and correct description of the same, reference being had to the drawing annexed, constituting a part of this specification.

My improvement relates to the employment of masses of metal, or other equivalent substances, previously heated in a furnace to an inclosed air-chamber or furnace of a steam-boiler, for the purpose of generating steam from the water contained in an exterior chamber of the said boiler. My improvement has for its object a means of generating steam for engines to be used upon street-railroad cars, and for kindred purposes, without the employment in direct connection with the boiler and engine of wood, coal, or other fuels which produce smoke.

For the accomplishment of the above-indicated results I construct my steam-boiler substantially as illustrated in the accompanying drawing, to which, in order to a clearer understanding of my improvement, reference must be made.

Figure 1 is a side elevation, partly in section; while Fig. 2 is an end elevation, likewise partly in section.

Similar letters of reference indicate corresponding parts in both figures.

The steam-boiler herein shown and described for the purposes of illustrating my invention is a horizontal, cylindrical, double-shell steam-boiler, provided with steam-dome, and does not materially differ in construction from many other steam-boilers, with the single exception that, as no fuels are employed which produce smoke or ashes, neither chimney nor ash-pit are constructed in connection therewith. The boiler (shown both in Figs. 1 and 2) consists simply of an interior air or heating chamber, A, the exterior water and steam chamber B, and dome C. Steam is generated from the water contained in the said water and steam chamber by means of masses or plugs of metal, or of other substances, which have been previously heated in a furnace separate and entirely independent of the boiler in which or to which the same is to be applied. This said heated metal, or heated substance, (shown at E,) is placed within the chamber A, and the mouth of said chamber closely sealed up by means of the cap or cover D.

What I claim as my invention, and desire to secure by Letters Patent, is—

A steam-generator having within its water-space a closed chamber, A, for the reception of heated masses of metal, substantially as and for the purpose specified.

WM. GOLDING.

Witnesses:

H. N. JENKINS,
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