

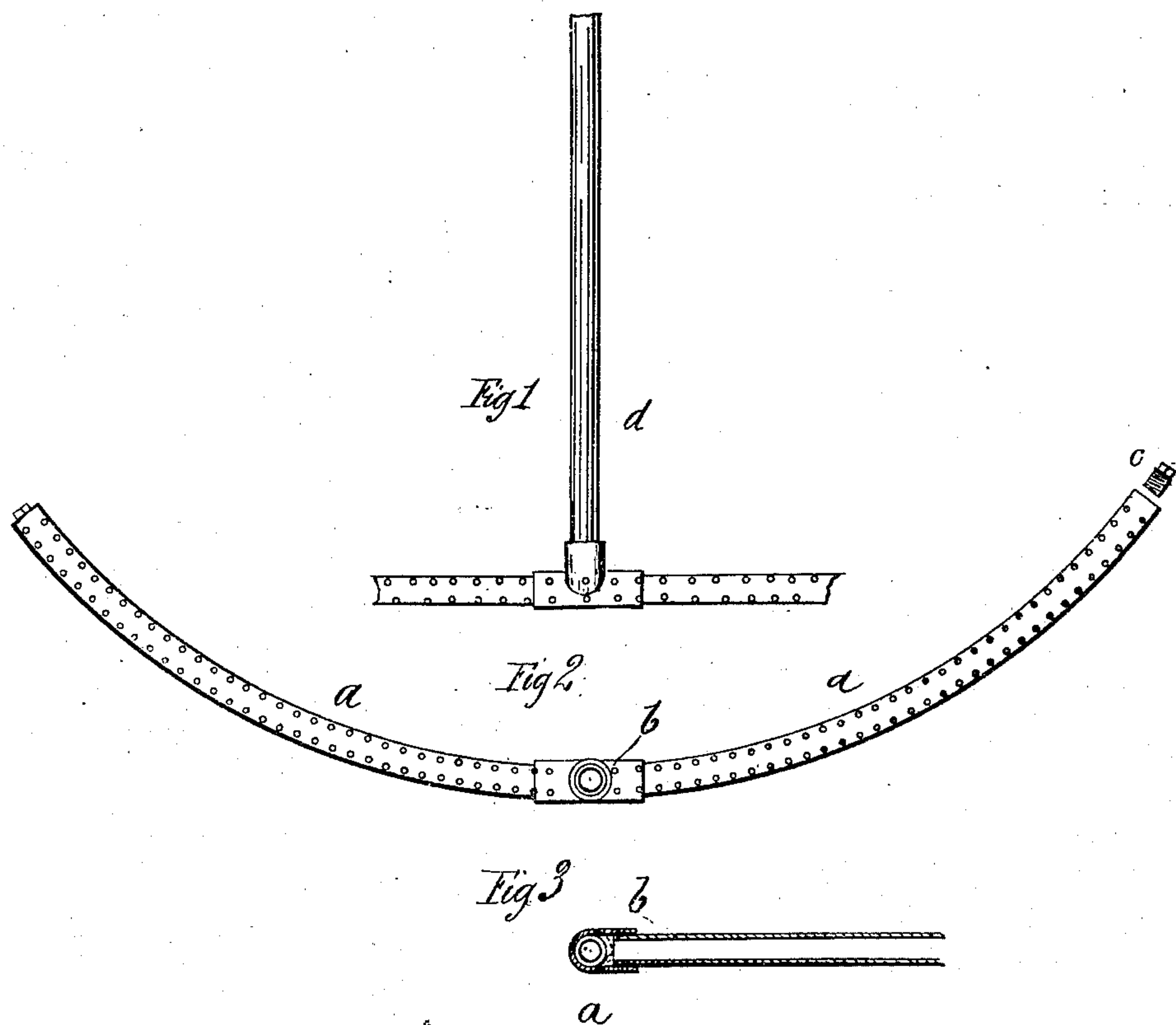
(No Model.)

G. A. GALLOWAY.

BOILER CLEANER.

No. 314,326.

Patented Mar. 24, 1885.



WITNESSES:

John B. [Signature]
C. Sedgwick

INVENTOR:

G. A. Galloway

BY *Munn & Co*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE A. GALLOWAY, OF LE CLAIRE, IOWA.

BOILER-CLEANER.

SPECIFICATION forming part of Letters Patent No. 314,326, dated March 24, 1885.

Application filed October 4, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. GALLOWAY, of Le Claire, in the county of Scott and State of Iowa, have invented a new and Improved
5 Boiler-Cleaner, of which the following is a full, clear, and exact description.

The object of my invention is to provide means for cleaning the fire-surfaces of soot and other accumulations.

10 The invention consists in a cleaner operating by jets of steam, as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate
15 corresponding parts in all the figures.

Figure 1 is a plan view of my improved boiler-cleaner. Fig. 2 is a side view, and Fig. 3 is a cross-section, of the same.

20 The cleaner is constructed of two pipes, *a a*, connected to a T, *b*, and bent to the shape of the boiler, their length being according to extent of the fire-surface. The ends of the tubing are closed by plugs *c*, and upon the upper
25 side the tube is formed with perforations made so as to discharge steam at an angle of about thirty degrees.

To the T *b* is attached a tube, *d*, of suitable length for use in manipulating the cleaner, and also for supplying steam, for which latter
30 purpose the outer end of the tube or handle *d* will be connected by a flexible pipe to a steam-connection at the front of the boiler.

In using this cleaner it is inserted in the fire-box and moved closely over the fire-sur-
35 face of the steam-boiler, and steam being applied at the same time, the jets act to remove the soot and scale upon the fire-surface. This action will be thorough, so that the surface
40 will be rendered clean, with the result of a great saving in fuel by the removal of the non-conducting materials that always accumulate on the fire-surface of a boiler.

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

The boiler-cleaner consisting of the curved and perforated tubing *a*, provided with the handle or steam-supply pipe *d*, substantially
as described.

GEO. A. GALLOWAY.

Witnesses:

WM. DESMOND,
T. B. HANLEY.