

A. C. BAKER.
Steam Heater.

No. 94,377.

Patented Aug. 31, 1869.

Fig. 1.

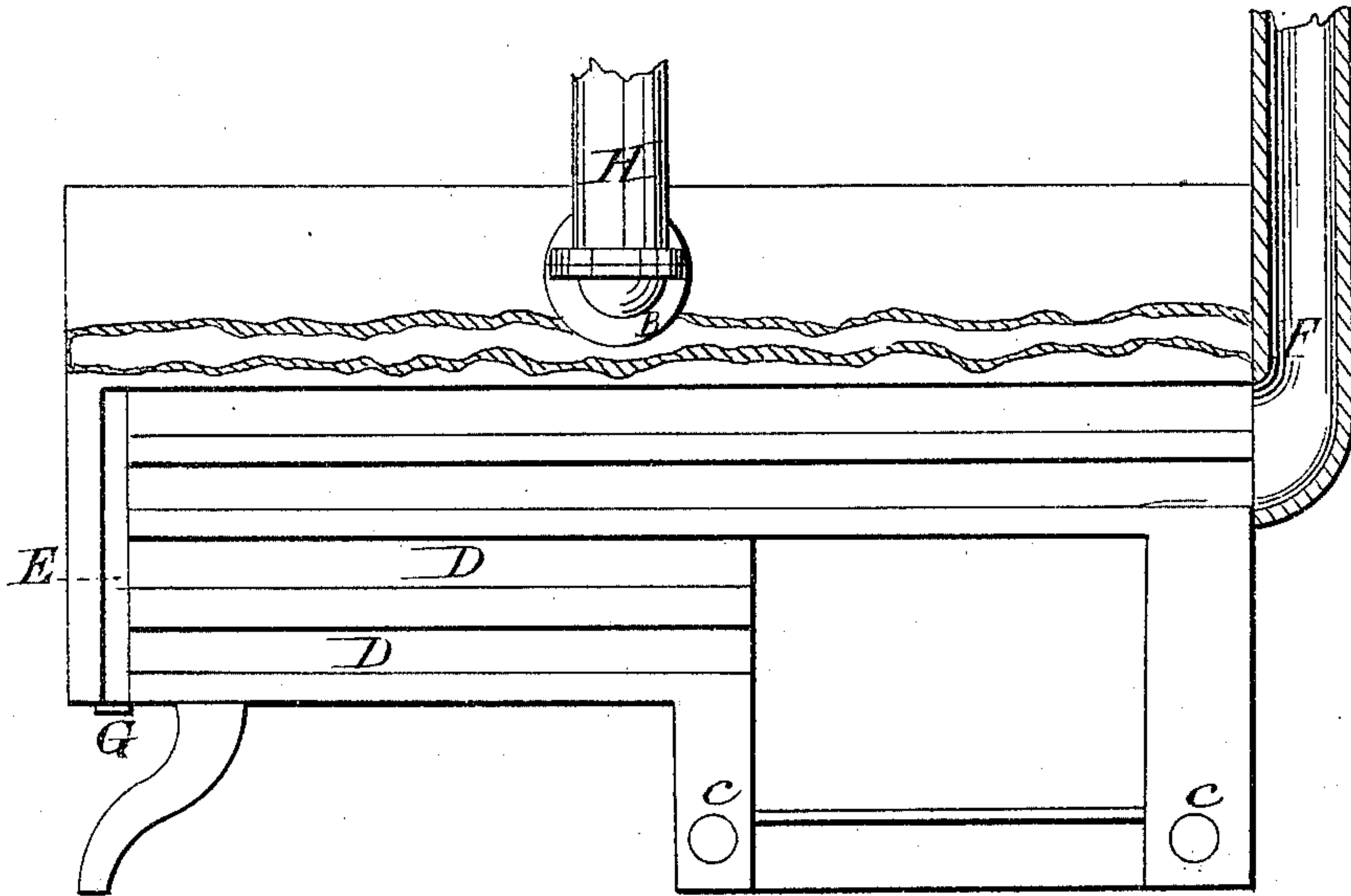
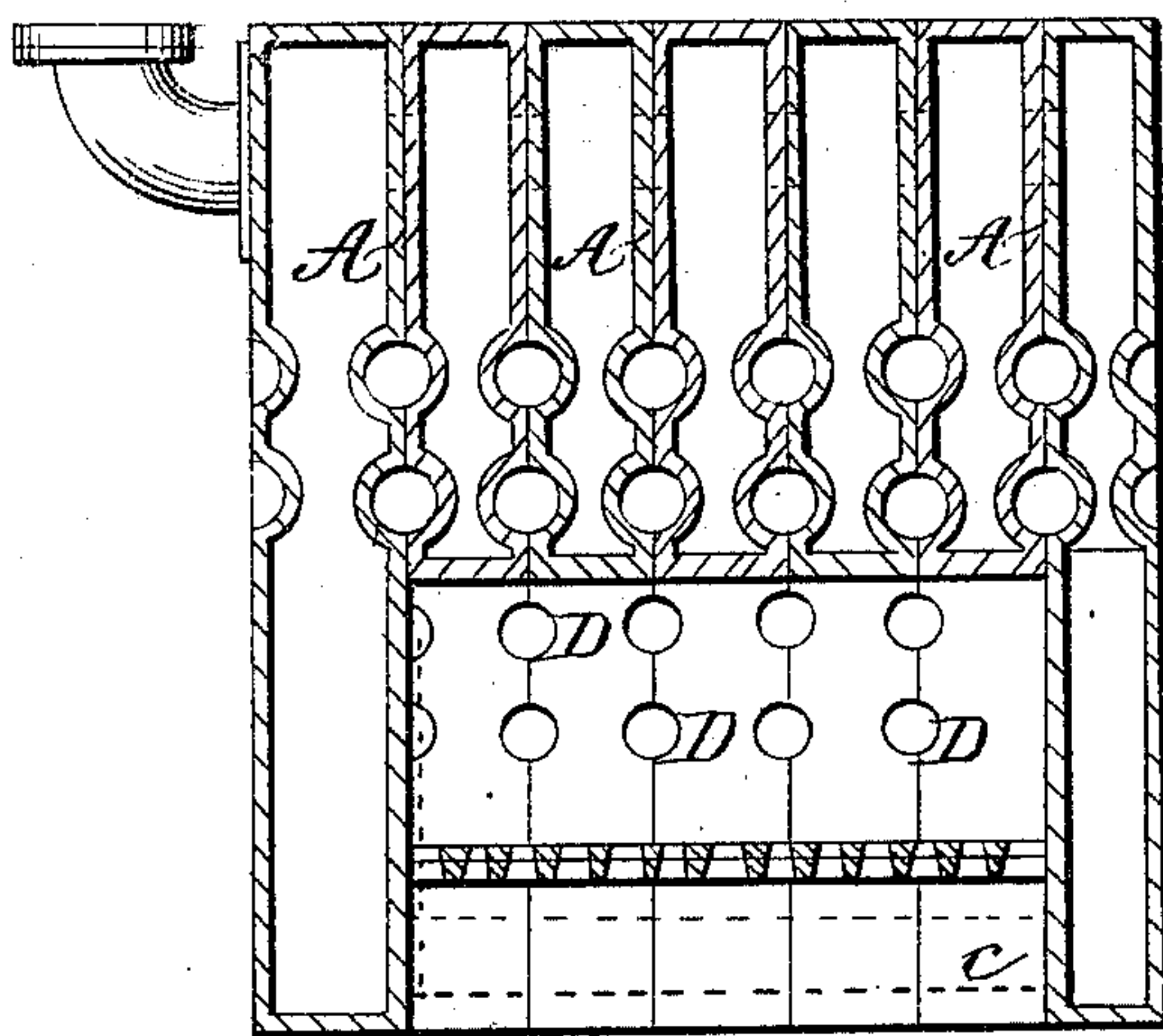


Fig. 2.



Witnesses:
C. D. Gemone
J. Smith

Inventor:
A. C. Baker
by his attorneys
Gardner & Co.

United States Patent Office.

A. C. BAKER, OF WESTFIELD, MASSACHUSETTS.

Letters Patent No. 94,377, dated August 31, 1869.

IMPROVEMENT IN STEAM-HEATER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, A. C. BAKER, of Westfield, Hampden county, State of Massachusetts, have invented a new and improved Steam-Heater; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the drawings—

Figure I is a side view and partial section;

Figure II being a cross-sectional view of my heater.

In construction I form my heater of a number of castings, A A, &c., which, when put together, form the water-space, steam-space, flues, and fire-box.

These castings are made independent, and remain so, even when put together, with the exception of a steam-connection, B, near the centre and top of the steam-space and water-connections C and C, in front and rear of the fire-box below. These steam and water-connections are suitably packed at the joints to prevent escape.

The castings are placed vertically and longitudinally. They are hollow inside, and the water-spaces and steam-spaces are so formed. The flues, however, are formed by the contiguity of the castings, each casting having half flues on each side. Any number

of layers of flues may be used, although I generally use two, as shown in the drawings; flues D extending from the fire-box back to a rear connecting-chamber, E, and then from this chamber through the heater to the chimney F which is in front.

The chamber E has a trap or slide at the bottom at G, whereby the ashes may be cleaned out.

The main steam-pipe H may be attached to either side or to the top of the heater, as may prove most convenient.

By this means I obtain a simple, compact, and inexpensive heater, one having a great amount of heating-surface and not liable to any explosion, or apt to get out of order through carelessness.

Having described my invention,

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

The steam-heater herein shown, consisting of the upright castings A A, &c., constructed and arranged together as shown, each casting being formed with steam and water-space within, and half flues at each side, substantially as herein set forth and described.

A. C. BAKER.

Witnesses:

E. B. SMITH,

J. B. GARDINER.