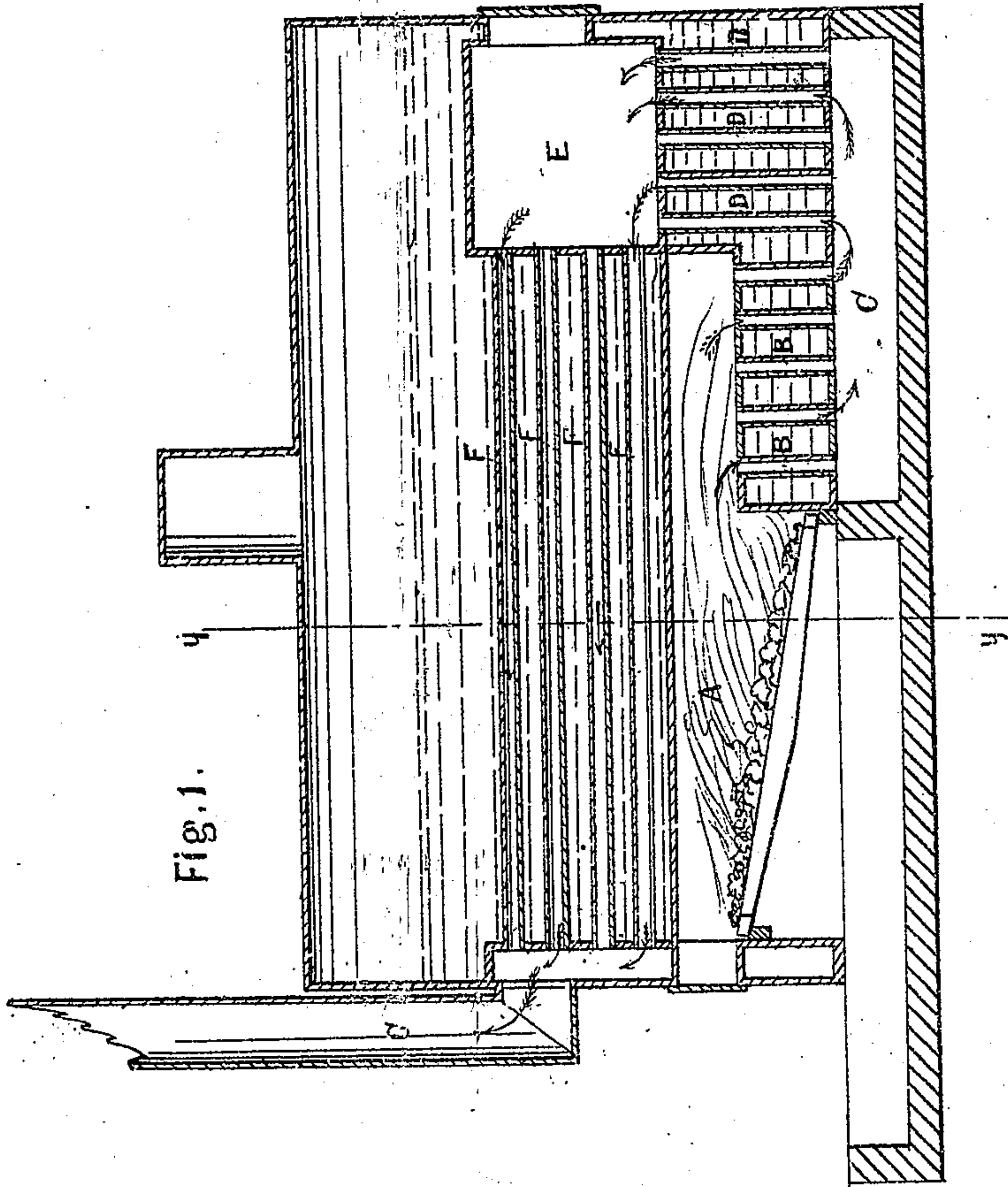
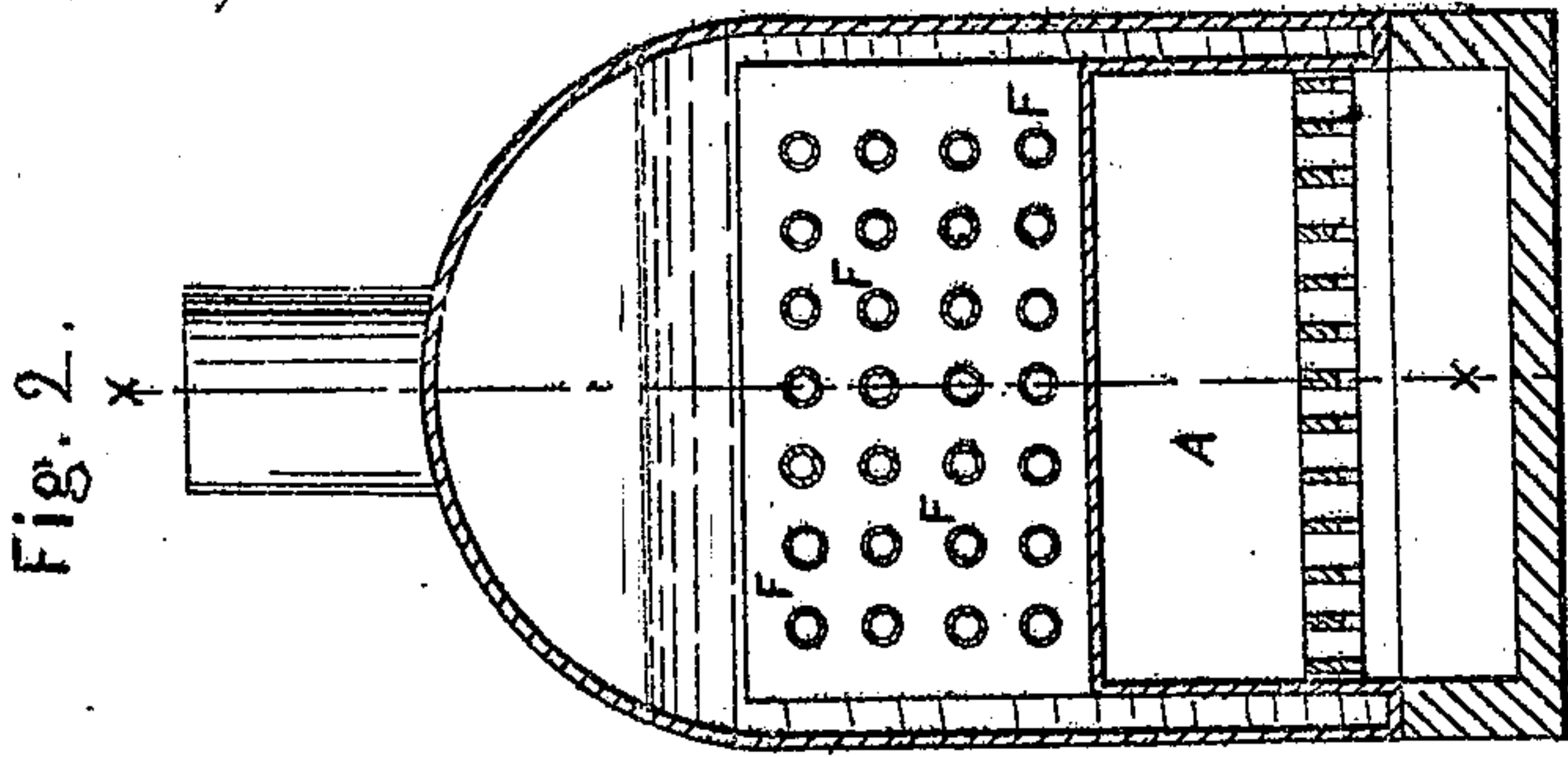


C. H. Franklin Jr.

Steam Boiler

N^o 92952.

Patented Jul. 27. 1869



Witnesses:

O. Hinckman
J. K. Brooks

Inventor:

Chas. A. Franklin Jr.
PER. *[Signature]*
Attorneys

United States Patent Office.

CHARLES H. FRANKLIN, JR., OF NEW YORK, N. Y.

Letters Patent No. 92,952, dated July 27, 1869.

IMPROVEMENT IN STEAM-GENERATORS.

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, CHARLES H. FRANKLIN, Jr., of the city of New York, in the county and State of New York, have invented a new and improved Steam-Generator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The present invention relates to a certain new and useful improvement in the construction of steam-boilers, by the introduction of a third combustion-chamber, the object of which is to consume all the smoke and gases from the furnace, and, at the same time, to give a greater heating-surface than has heretofore been given to steam-boilers.

Figure 1 represents a sectional elevation of my improvements in steam-generators, taken through the line *x-x*.

Figure 2 is a cross-section of the same through the line *y-y*.

Similar letters of reference indicate corresponding parts.

In this case, the letter A represents the furnace, from which the flame, heat, and gases will pass down, through the tubes B, into the combustion-chamber C, and from thence upward, through the tubes D, into the combustion-chamber E, where all the remaining gases are consumed, and the heat therefrom, passing through the tubes F, escapes into the chimney G.

It will thus be seen, that by retaining the heat in the manner spoken of, and consuming the gases that would otherwise pass off up through the chimney, a great saving in fuel is obtained, and, at the same time, a greater heating-surface presented than has hitherto been given to steam-generators.

Having thus described my invention,

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

A steam-boiler having a third combustion-chamber E, the same being set in the boiler in the manner substantially as herein shown and described.

CHAS. H. FRANKLIN, JR.

Witnesses:

FRANK BLOCKLEY,
C. L. TOPLIFF.