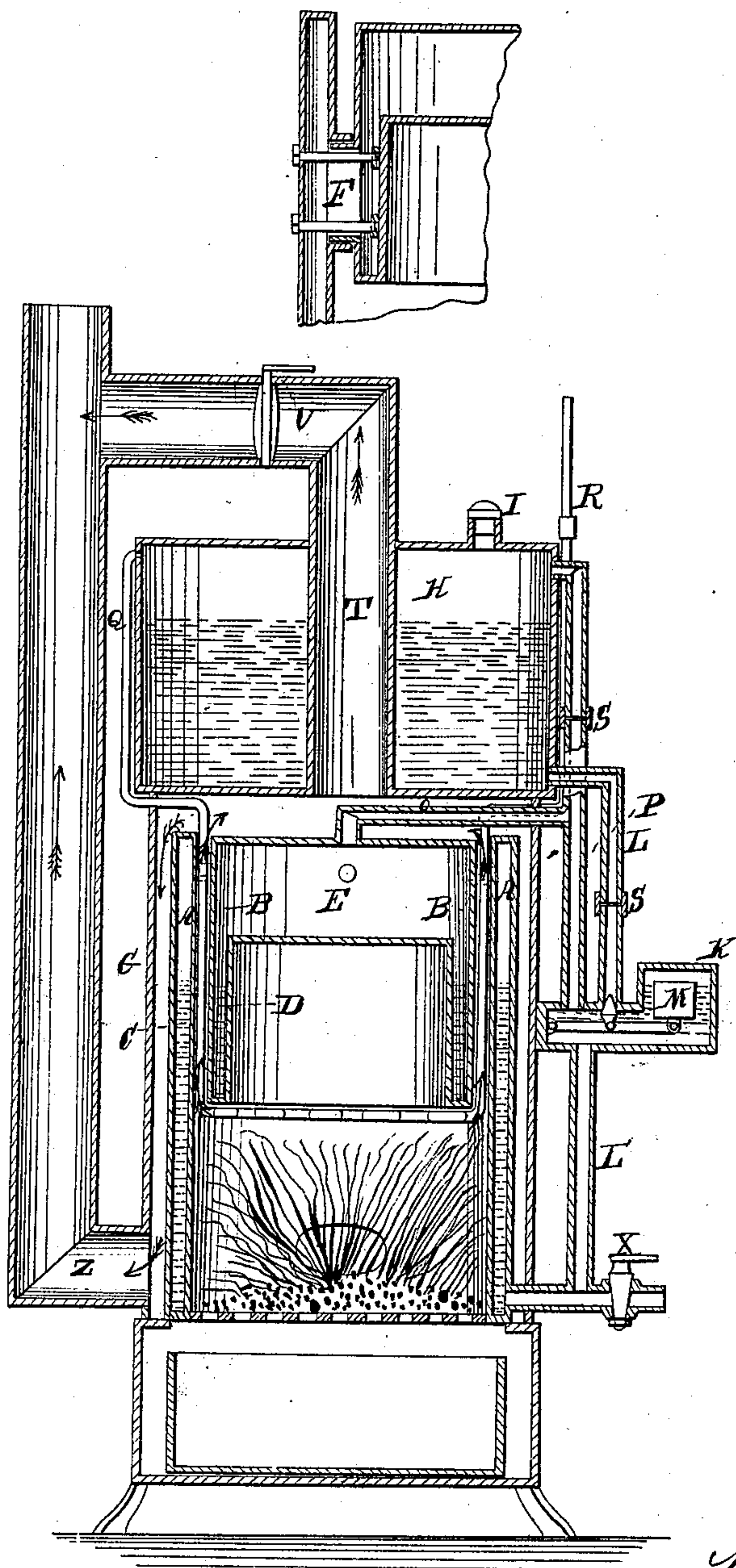


Y. D. Anderson,
Steam-Boiler Water-Feeder,
No 83,016, Patented Oct. 13, 1868.



Inventor.
Y. D. Anderson

Per Messrs. L
Attorneys.

Witnesses.
Wm A Morgan
G & C. Cotton



V. D. ANDERSON, OF MILTON, WISCONSIN.

Letters Patent No. 83,016, dated October 13, 1868.

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, V. D. ANDERSON, of Milton, in the county of Rock, and State of Wisconsin, 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 a part of this specification.

The object of this invention is to provide a simple and economical steam-generator for domestic uses.

It consists in the arrangement of the boiler, consisting of two vertical cylindrical parts, one within the other, a reservoir, containing the supply-water for the boiler, into which the steam is discharged before using, a superheater, and a feeding-apparatus, all as will be hereinafter described.

The drawing represents a sectional elevation of my improved generator.

A and B represent the two parts of the boiler, which are made double, to provide the water-spaces C D and the steam-dome E. They are separately constructed, and arranged so as to be attached together, and a communication formed between them, as shown in the detail view at F.

G represents an outer casing or shell, forming a flue-space outside of the boiler A.

H represents a reservoir, arranged upon the top of the shell G, into which the water may be supplied through the tube I, or by any other means.

The water for supplying the boiler is conveyed from the reservoir H to the float-box K, and thence into the boiler, by the pipes L L'.

The float-box K is provided with a float, M, which actuates a valve, N, in the lower end of the pipe L, and automatically regulates the flow of water into the boiler.

If the water in the boiler falls, the float will go

down, and open the valve, when the water will run through until it rises so high in the boiler as to give a sufficient upward pressure to the float to close the passage of water past the valve.

The steam is conveyed from the boiler, through the pipes O and P, to the reservoir. The latter pipe also communicates with the float-box K. From the reservoir, the steam may be conveyed to any vessel, for use, as desired.

Q represents a pipe, leading from the reservoir to the furnace, when it is coiled, and leads thence to the point R, from whence it may convey the steam as desired, which may be used for superheating, the other passage from the reservoir being closed.

The reservoir and superheater may be dispensed with, if desired, and, for the purpose of detaching the reservoir, the pipes P and L are made with unions, S.

The reservoir is provided with a flue, T, having a valve, V, through which the product of combustion may pass when desired, or, by closing the valve, it may be returned to the flue Z.

X represents a cock, for drawing off the surplus water from the boiler.

Having thus described my invention,

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

1. The arrangement of the parts A and B, when constructed and joined together substantially as set forth.

2. The arrangement of the boilers A and B and the reservoir of the superheater Q, substantially as described.

The above specification of my invention signed by me, this 18th day of July, 1868.

V. D. ANDERSON.

Witnesses:

ASA WEAVER,
W. G. HAMILTON.