(No Model.)

V. F. FAGG.

STEAMER.

No. 481,940. Patented Sept. 6, 1892.

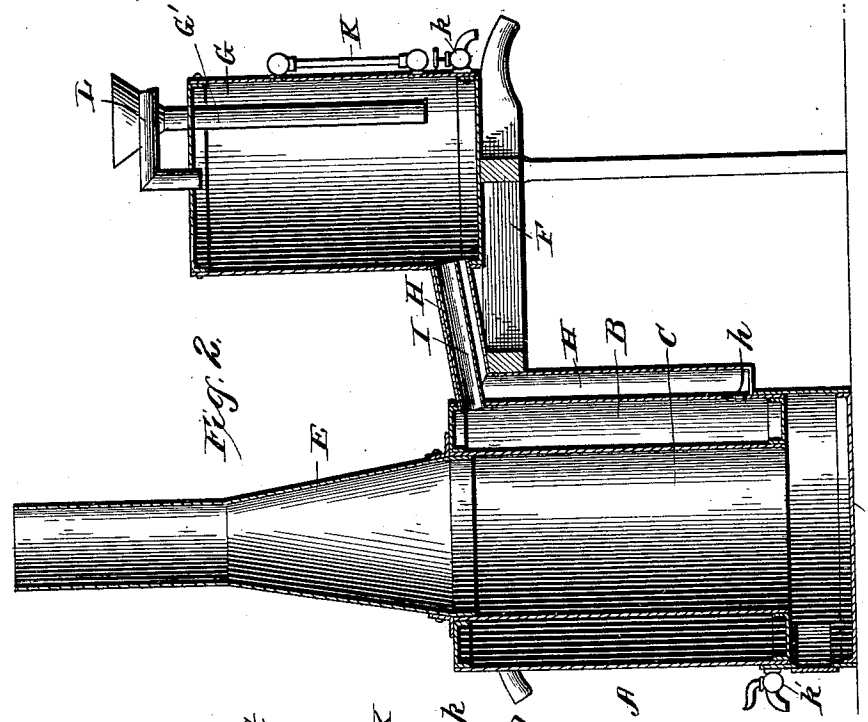

Fig. 2.

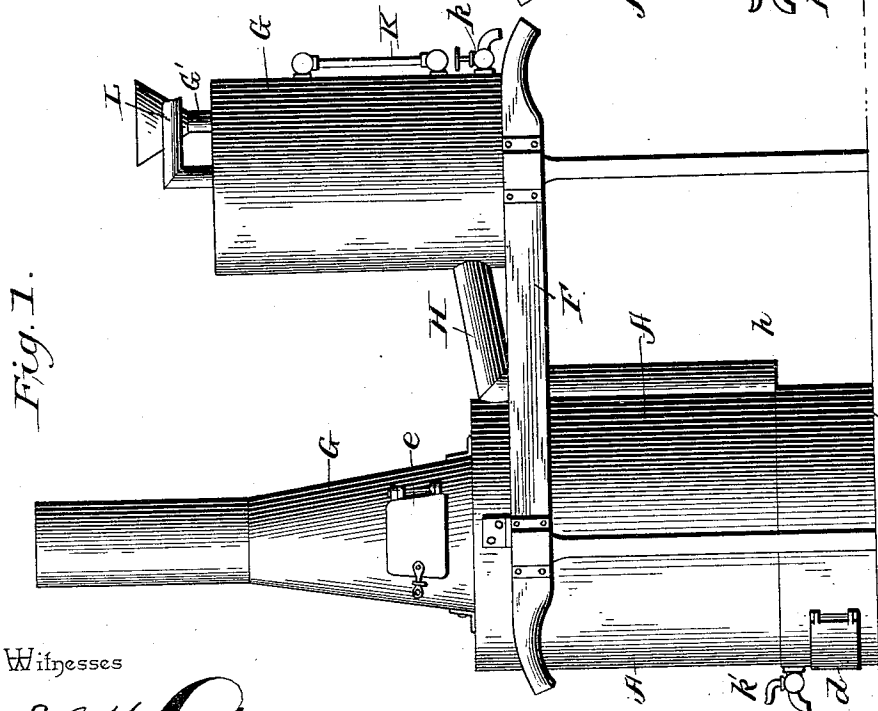

Fig. 1.

Witnesses

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VOLENTINE F. FAGG, OF AVILLA, MISSOURI.

STEAMER.

SPECIFICATION forming part of Letters Patent No. 481,940, dated September 6, 1892.

Application filed March 11, 1892. Serial No. 424,556. (No model.)

To all whom it may concern:

Be it known that I, VOLENTINE F. FAGG, a citizen of the United States, residing at Avilla, in the county of Jasper and State of Missouri, have invented a new and useful Steamer, of which the following is a specification.

This invention relates to steamers for domestic and agricultural purposes, but more especially to that class which are designed for generating steam for washing purposes, and therefore in connection with ordinary steam washing-machines.

It is the principal object of this invention to provide improvements in steamers of this character which, while efficient in use, at the same time avoid the serious objections to most steamers which are dangerous to handle on account of the liability of scalding, and thus render the same easy and safe to handle.

With these and many other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in the novel combination and arrangement of parts hereinafter more fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a side elevation of a steamer constructed in accordance with this invention. Fig. 2 is a vertical longitudinal sectional view of the same.

Referring to the accompanying drawings, A represents a jacketed generating-boiler having the annular water-space B and the central fire chamber or flue C, extending entirely therethrough and open at top and bottom. Removably mounted over the lower end of said boiler is the fire-box D, having an ordinary draft-door *d*, and designed to hold the fuel which heats the water in the boiler-jacket and the products of combustion from which pass through the vertical fire box or flue C of the boiler and out through the escape-pipe E, removably fitted in the upper open end of said fire box or flue and connected with an ordinary stovepipe. The said escape-pipe E is provided with a door *e*, through which the fuel is fed into the fire chamber and flue to the fire-box at the bottom of the same. The said boiler A is supported upon a suitable frame F, which also supports an elevated tank or vessel G, adjacent to said boiler and connected therewith to feed the same and receive the generated steam therefrom. A feeding-tube H extends from the lower end of said tank to the upper end of the jacketed boiler A, and passing down the outside of said boiler to a point *h* near the bottom thereof, opens at such point into said annular water-space to continually feed and supply the same with a constant supply of water. The portion of the tube H passing down the outside of the boiler has one of its walls formed by the side of the boiler, which it meets, so that the water passing through said tube is heated to a certain degree before entering the water-space of the boiler. A smaller discharging-tube I opens into the extreme upper end of the annular water-space, and passing through the upper portion of the larger feed-tube H projects into the tank G, so as to allow the generated steam and hot water carried therewith to pass into said tank. This arrangement of feeding and discharge tubes provides for the constant and positive feed of the water to the boiler, whereas in most steamers where the feeding and discharge tubes are both located alongside of each other and open into the top of the boiler and the feeding-tank at the same point the boiler cannot be fed on account of the steam emitted from the boiler passing out into the tank through both tubes, and thereby preventing any water from feeding into the boiler as long as the steam-pressure therein is sufficiently strong to keep it out. The tank G is filled with the requisite amount of cold water to be fed to the boiler through the filling-tube G′, extending from the top thereof to the bottom of the same, and is provided with an upper funnel end, by means of which the water may be readily poured therein. A water-gage K, connected with one side of the tank, provides means for always ascertaining the amount of water in said tank, while a cock *k*, connected with the lower end thereof, allows the water to be drawn off when desired. A similar cock *k*′ is connected with the bottom of the annular water-space of the boiler and allows hot water to be drawn off when needed for use for domestic or other purposes. A steam-conducting tube L is connected with the top of the tank G and passes therefrom to the washing machine or boiler in which the clothes to be steamed are placed, or to any other point of use.

The construction and advantages of the herein-described steamer are thought to be apparent without further description.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination of a boiler having an annular water-space, an adjacent water-supplying and steam-distributing vessel or tank located adjacent to and above said boiler, a feeding-tube extending from the lower end of said tank to the upper end of said boiler, passing down outside of said boiler, which latter forms a wall of the tube, to a point near to the lower end of the boiler and opening into the same at such point, and a smaller discharging-tube leading from said tank and opening into the extreme upper end of the boiler water-space, said discharging-tube being inclosed within the upper portion of the feeding-tube, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

VOLENTINE F. FAGG.

Witnesses:

GEO. W. LEWIS,

THOS. HACKNEY.