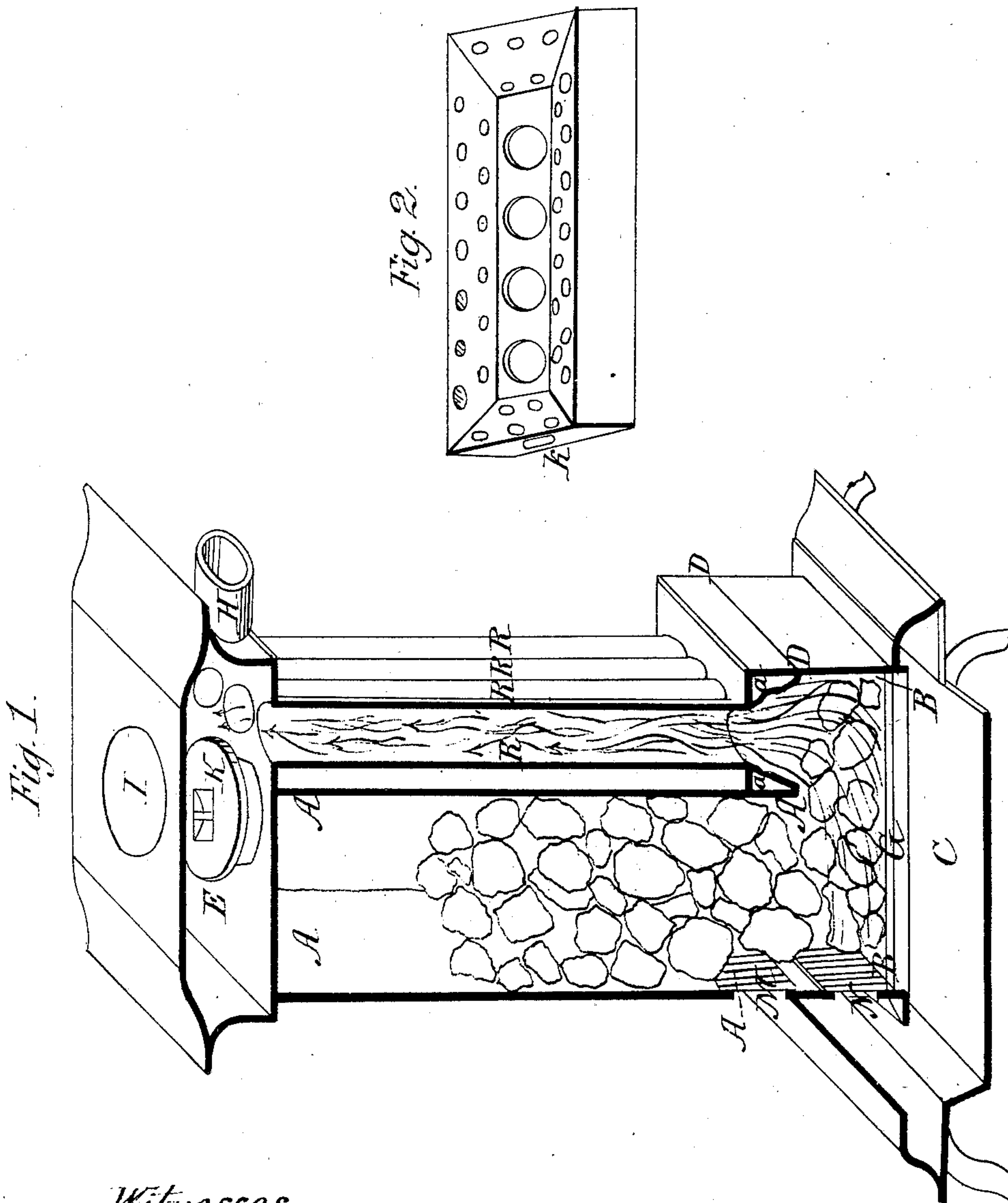


S. T. SAVAGE.

Magazine Stove.

No. 21,445.

Patented Sept. 7, 1858.



Witnesses;
Paul Harkness
James A. Lander

Inventor,
S. T. Savage

UNITED STATES PATENT OFFICE.

SILAS T. SAVAGE, OF ALBANY, NEW YORK.

IMPROVEMENT IN COAL-STOVES.

Specification forming part of Letters Patent No. 21,445, dated September 7, 1858.

To all whom it may concern:

Be it known that I, SILAS T. SAVAGE, of the city of Albany, State of New York, have invented certain Improvements in the Construction of Coal-Stoves; and I declare the following specification, with the drawings hereto annexed as part of the same, to be a full and perfect description thereof.

Figure 1 represents a stove in perspective with the hither side removed and one of its flues or radiators shown in section.

A A A A is the magazine for the fuel; A A B B D, the fire-chamber; G, the grate, and C the ash-pit. The fire-chamber projects back of the main body of the stove, and the flues or radiators R R rise up above the projection and enter into the upper chambers of the stove E, carrying thither the products of combustion, whence they pass out by the pipe H. The supply of fuel is put in through the top door I and the door K below it. The draft is supplied from the ash-pit C, and from an upper and lower register M and N, the lower register being ordinarily used; but whenever it is desired to increase the fire the upper one is used, which brings a larger amount of fuel in the line of draft of air. The radiators R R open upward from a chamber D D on the

top of the projection of the fire-box A D. This chamber is shown in Fig. 2 reversed in order to show the arrangement of its important feature, which is an air-chamber lying in the upper angle of its walls and top and between the flues and the sides thereof. Its cross-section is marked in Fig. 1, *a a*. It is pierced with a number of orifices next to the fire, as marked in the drawings, to permit the atmospheric air, which is admitted by openings at *k* on its outer wall, to mingle with the flame and products of combustion just as they leave the fire and enter the flues, making the combustion of the fuel almost entire.

I do not claim a magazine or feeder nor radiators, nor the introduction of air to complete the combustion of the fuel as my invention; but

I do claim—

The combination of the magazine, radiators, and the air-chamber at the base of the radiators as arranged in reference to and with each other, substantially as set forth and described in the within specification.

S. T. SAVAGE.

Witnesses:

RICH. VARICK DE WITT,
JAMES B. SANDERS.