

(No Model.)

2 Sheets—Sheet 1.

G. LAUBE.

STRAW BURNING COOK STOVE.

No. 389,394.

Patented Sept. 11, 1888.

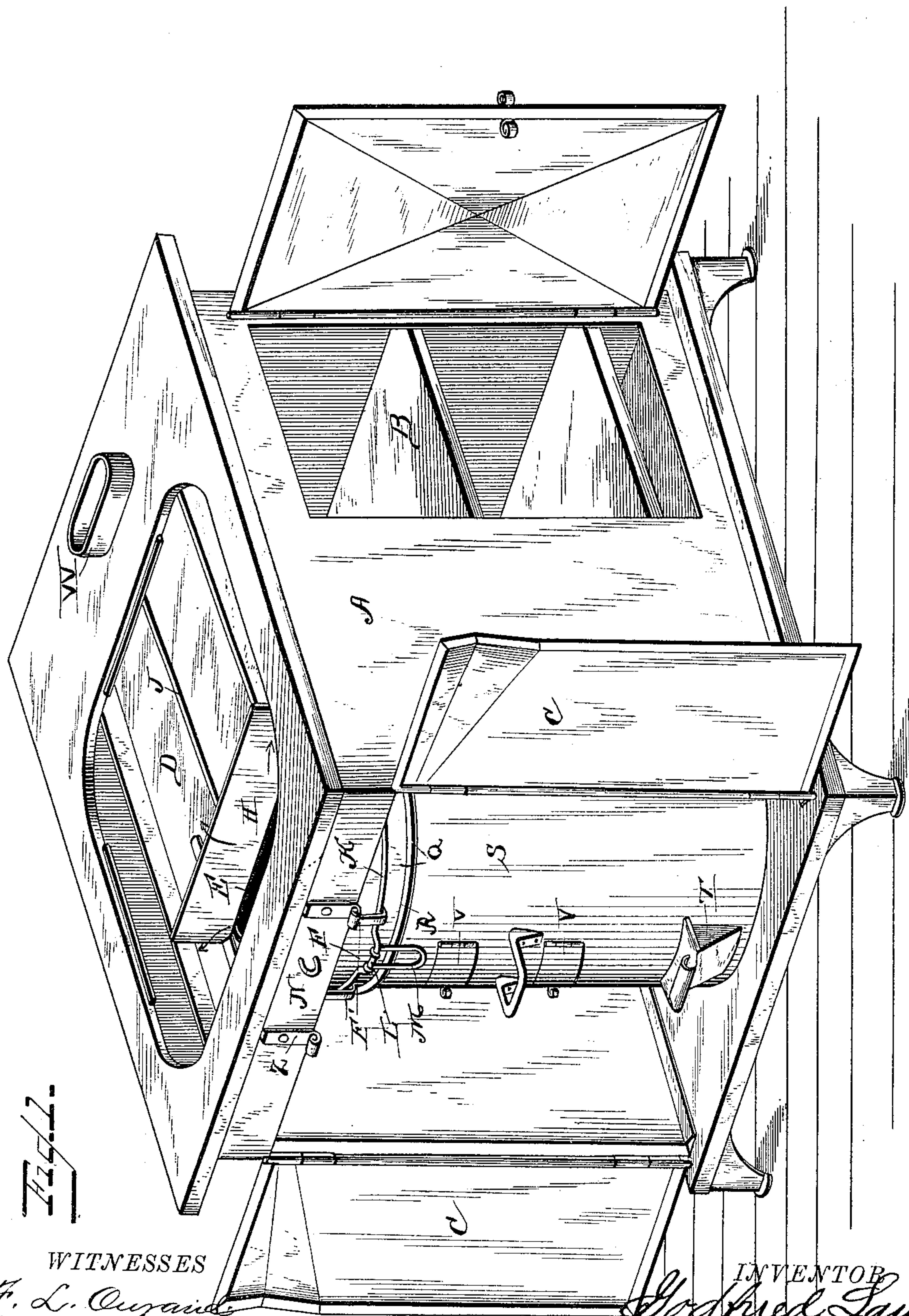


Fig. 1.

WITNESSES

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INVENTOR

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(No Model.)

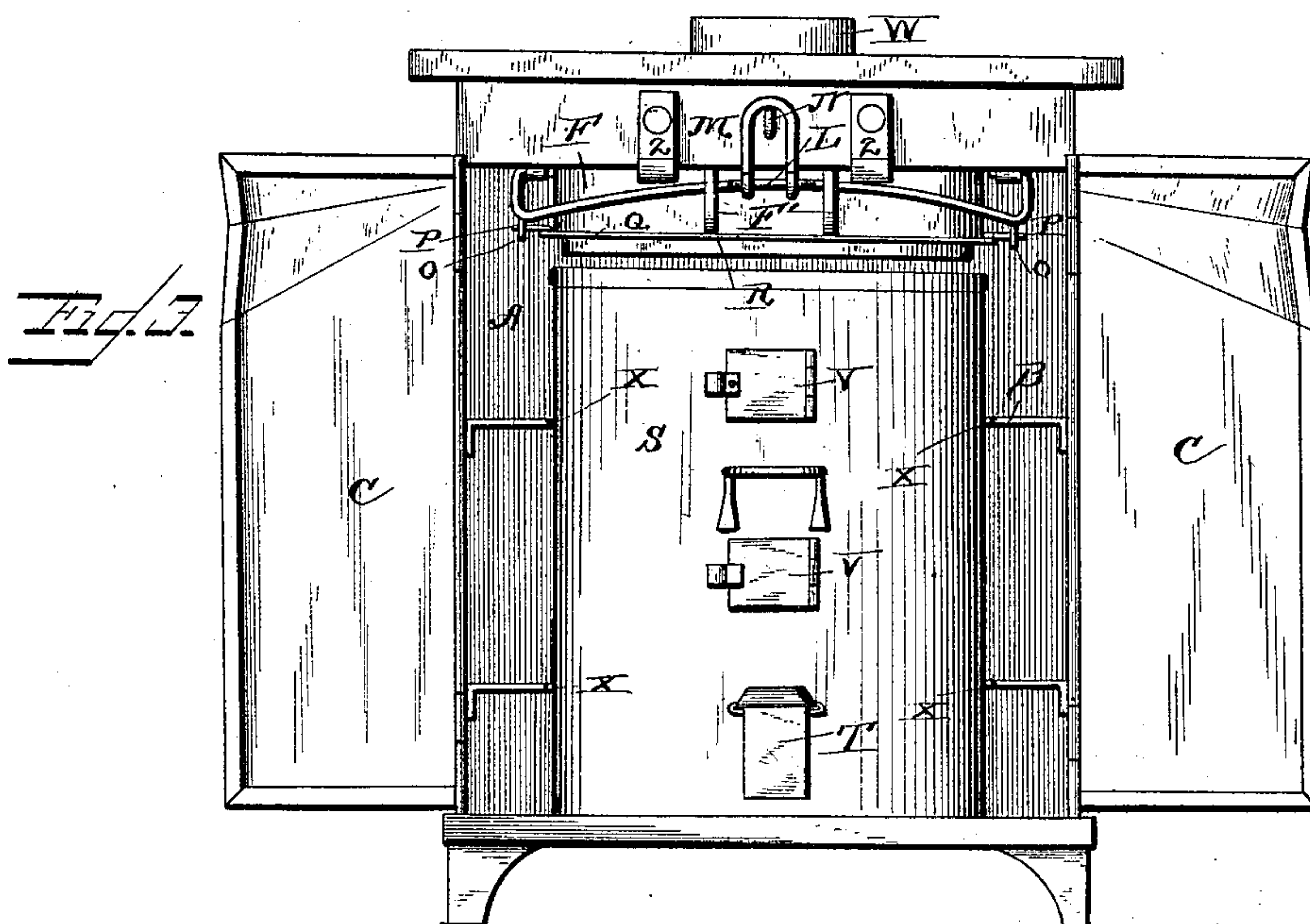
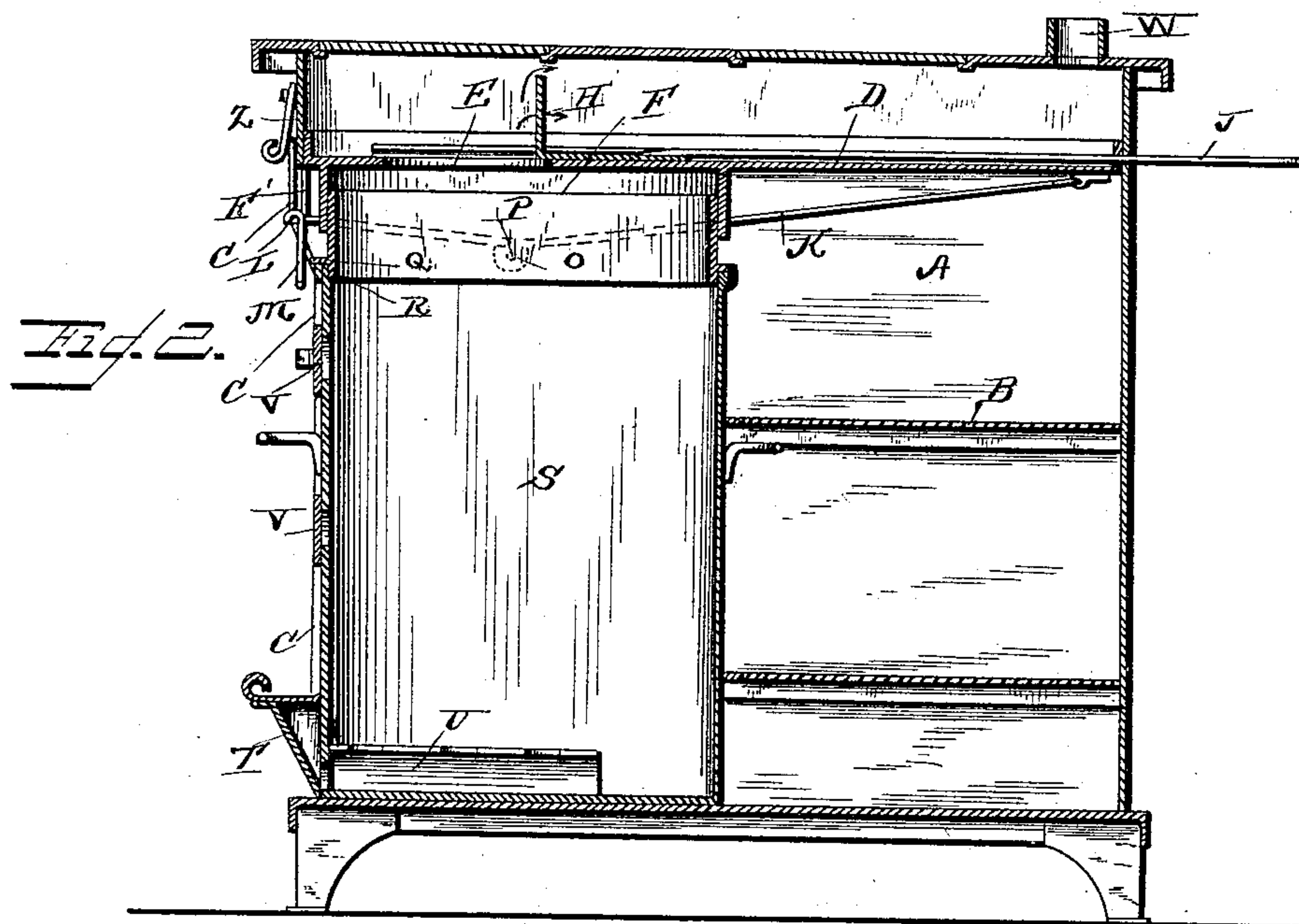
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# UNITED STATES PATENT OFFICE.

GODFRIED LAUBE, OF HURON, DAKOTA TERRITORY.

## STRAW-BURNING COOK-STOVE.

SPECIFICATION forming part of Letters Patent No. 389,394, dated September 11, 1888.

Application filed January 30, 1888. Serial No. 262,340. (No model.)

*To all whom it may concern:*

Be it known that I, GODFRIED LAUBE, a citizen of the United States, and a resident of Huron, in the county of Beadle and Territory of Dakota, have invented certain new and useful Improvements in Straw-Burning Cook-Stoves; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved straw-burning cook-stove with the doors open and the spider and lids removed. Fig. 2 is a longitudinal vertical sectional view of the same with the spider and lids in place upon the stove and the doors closed. Fig. 3 is a front view with the doors in front of the stove open to more clearly show the fastening device for retaining the straw-magazine in position in the stove-casing, which fastening device is shown secured in its raised position.

Similar letters of reference denote corresponding parts in the several figures.

My invention has relation to straw-burning cook-stoves; and it consists in the improved construction and combination of parts of same, as will be hereinafter pointed out and claimed.

In the accompanying drawings, the letter A denotes the stove-casing, having shelves B in the rear thereof, an open front, and doors C for closing the same. A sheet or partition, D, extends and is secured in this casing slightly below the top thereof, and is formed with a forward draft-opening, E, encircled by a downwardly-projecting annular flange, F, having upon its forward portion two guide-loops, F'. The upper side of this sheet or partition is provided with two guideways, in which slides a damper, H, formed with the upwardly-bent forward edge, and provided with an operating-rod, J, which extends rearwardly and projects through the rear of the stove. The bail K is hinged with its ends to the rear under portion of this sheet or partition, as clearly shown in Fig. 2, and with its forward curved portion encircles the forward portion of the annular flange F, and is provided with an offset, L, to which is pivoted a loop, M, adapted to engage a hook,

N, in the front part of the casing. The sides of this hinged bail are provided with apertured ears O, to which is pivoted, by means of pins P, an annular collar, Q, which fits snugly and plays vertically within the annular flange F, and is provided with a laterally-projecting flange, R.

S denotes the magazine, provided with the draft-regulating cup T, the perforated draft-tube U communicating with said draft-cup, handles by which it may be removed for emptying and refilling, and with doors V, through which the fuel may be lighted and attended to and the draft further regulated. The peculiar construction of this magazine I make no claim for in this application.

The operation of my invention is as follows: After the magazine, filled with fuel, (straw or hay,) has been placed in the casing, the annular collar Q is lowered, and fits with its lower edge in the magazine, while the laterally-projecting flange on said collar fits over the beaded edge Q' of the magazine, and thus prevents the escape of smoke into the room. While in this position the draft-cup and draft-doors are regulated to obtain the desired draft, and the doors in front of the casing are closed and secured by turn-buttons Z. These front doors do not extend entirely across the front opening of the casing, as shown clearly in Fig. 2, and will thus permit the draft-doors and draft-tube in the straw-magazine to be regulated and the fire to be poked or attended to. The slide-damper H is now adjusted over the draft-opening in the sheet or partition to the desired extent, when one portion of the products of combustion escaping from the magazine is guided by the upwardly-bent forward edge of the damper to the sides of the stove-casing, while the other portion passes over the top of said bent edges and escapes through the smoke-pipe W at the rear of the casing, as illustrated by arrows in Figs. 1 and 2, thereby causing the products of combustion and the heat therefrom to be equally circulated over the space formed by the sheet or partition and the top of the stove-casing, thus furnishing a steady and powerful heat for cooking upon the top of the said stove-casing, while at the same time a sufficient amount of heat is obtained for the baking and roasting of eatables placed upon the shelves in



the rear of the casing. These shelves have their forward edges curved, as shown at X, to permit the magazine to fit snugly in the casing. Now when it is desired to remove the magazine for the purpose of emptying and re-filling, the loop upon the offset or shouldered portion of the hinged bail is raised upwardly and secured to the hook in the front upper portion of the casing, and which of course raises the cover out of engagement with the magazine, thus permitting the said magazine to be removed.

From the foregoing description, taken in connection with the accompanying drawings, the operation and advantages of my invention will be readily understood. It will be seen that the slide-damper serves a double purpose—namely, first, to guide the products of combustion, which causes the heat to be equally distributed over the top of the stove casing, and, second, to regulate the draft passing through the opening in the sheet or partition.

Having thus described my invention, I claim—

1. The combination of a stove-casing having a sheet or partition secured therein, formed with a forward draft-opening, an annular flange projecting downwardly from said sheet or partition and encircling said opening, and a vertically-movable collar encircled by said flange,

with a removable straw-magazine inclosed within said stove-casing.

2. The combination of a stove casing having a sheet or partition secured therein, formed with a forward draft-opening, a slide-damper operating over said opening and formed with a forward upwardly-bent edge, and an operating-rod secured to said damper, with a removable straw-magazine inclosed within said casing.

3. The combination, with a stove-casing having a sheet or partition secured therein, formed with a forward draft-opening, a downwardly-projecting annular flange secured to said sheet and encircling said draft-opening, guide-loops upon said flange, a hinged bail, a loop pivoted to the forward curved portion of said bail, a hook in the front of the stove-casing adapted to engage with said pivoted loop, and the vertically-movable collar having a laterally-projecting flange and pivoted to said bail, with a removable straw-magazine inclosed within said stove-casing.

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

GODFRIED LAUBE.

Witnesses:

SIMMIE GOMBAR,  
HATTIE R. LAUBE.