

(No Model.)

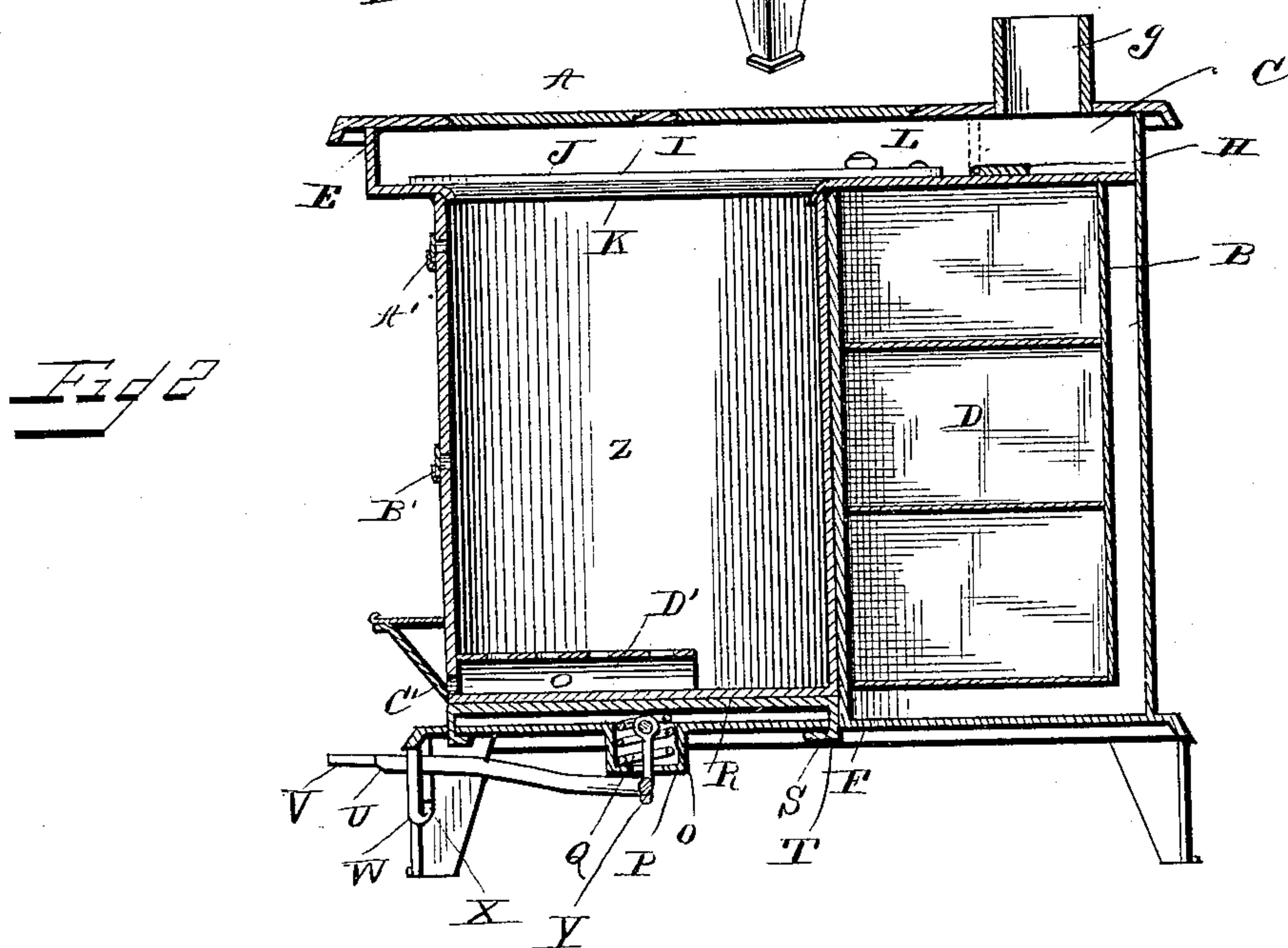
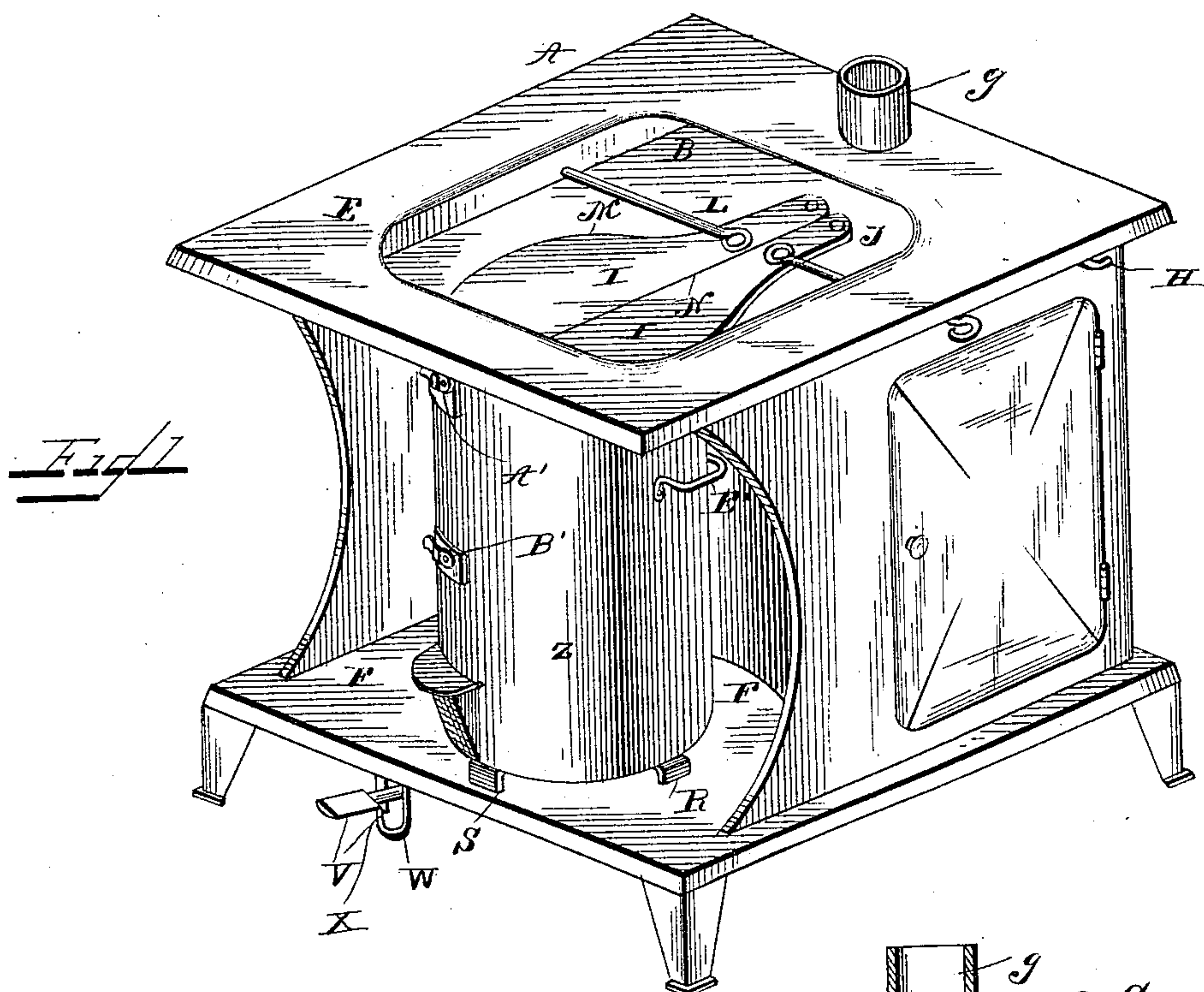
2 Sheets—Sheet 1

G. LAUBE.

STRAW BURNING COOK STOVE.

No. 389,392.

Patented Sept. 11, 1888.



WITNESSES

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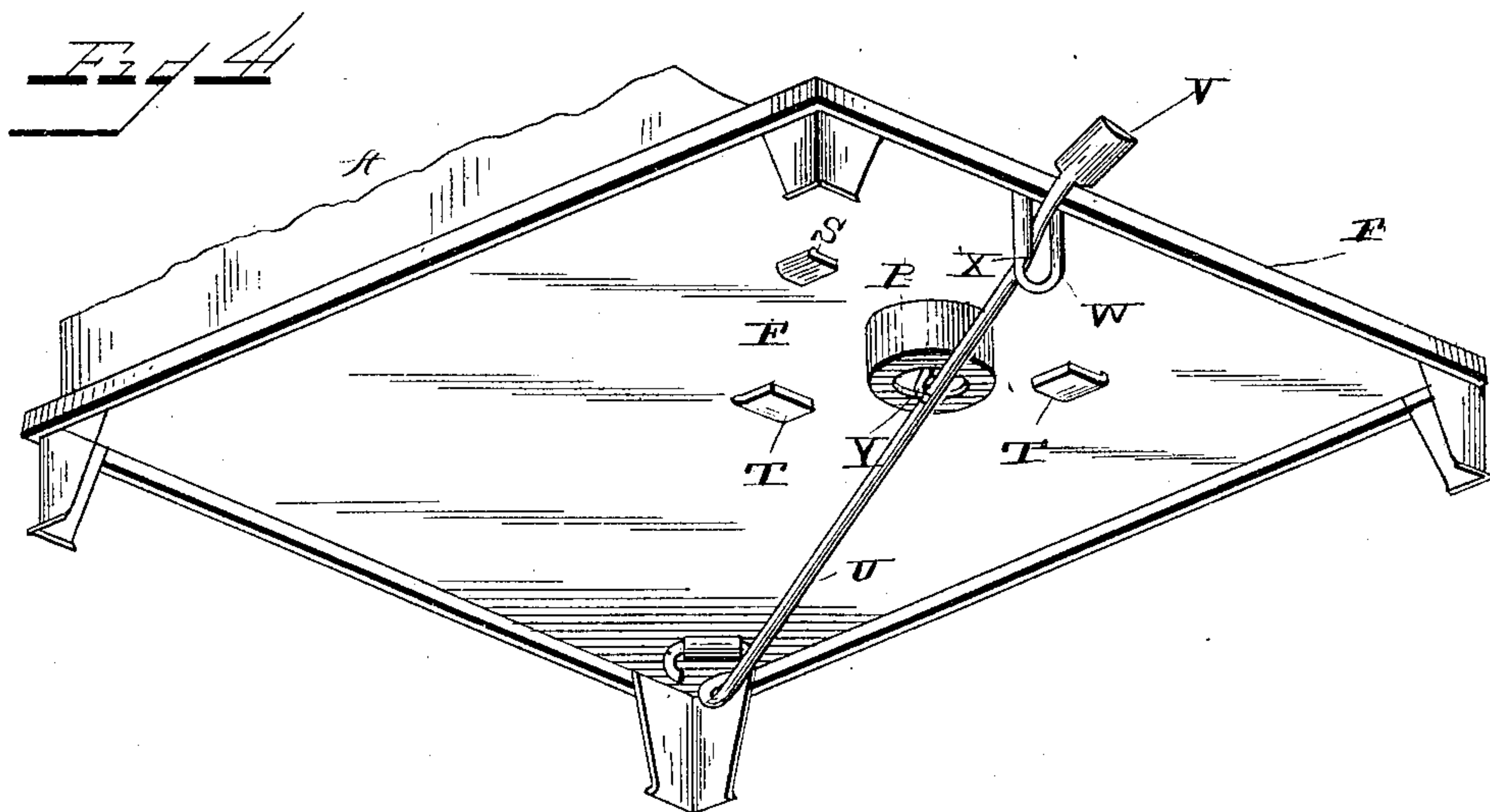
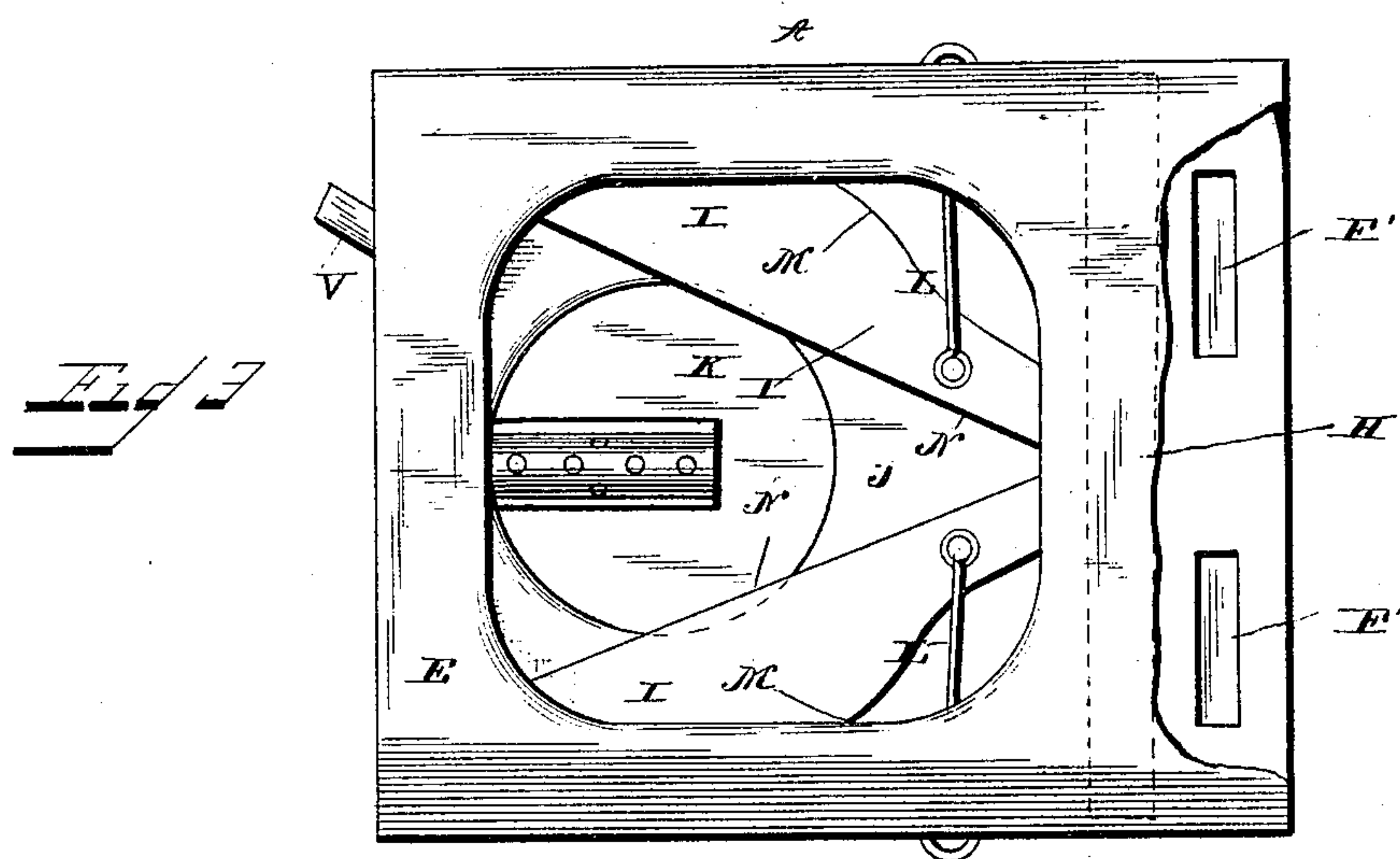
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UNITED STATES PATENT OFFICE.

GODFRIED LAUBE, OF HURON, DAKOTA TERRITORY.

STRAW-BURNING COOK-STOVE.

SPECIFICATION forming part of Letters Patent No. 389,392, dated September 11, 1888.

Application filed December 27, 1887. Serial No. 259,041. (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 spider and covers removed to more fully illustrate my invention. Fig. 2 is a vertical sectional view of the same with the spider and lids in place upon the stove. Fig. 3 is a top plan view with the spider and lids removed and a portion of the top broken away to more clearly show the draft-holes in the rear portion of the stove, and Fig. 4 is a perspective view of the under side of the stove.

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

My invention has relation to straw-burning cook-stoves; and it has for its object to provide means, substantially as hereinafter set forth, whereby a magazine or cylinder containing straw or its equivalent can be readily and firmly secured to a cooking-stove, and also means whereby the hot air after leaving the magazine may be conducted to either side of the stove or to both.

To this end my invention consists in the improved construction and combination of parts of the same, as will be hereinafter more fully described and claimed.

In the accompanying drawings, the letter A denotes the stove proper constructed with the rear and upper communicating hot-air chambers, B and C, respectively, the oven D, top extension, E, and hearth-extension F.

g indicates the stove-pipe, and H the ordinary draft-regulating damper secured in the rear portion of the top oven, forward of the stove-pipe.

Two dampers, I, are pivoted with their rear ends to the partition J, which forms the upper hot-air chamber, and are adapted to be oper-

ated laterally over the circular opening K in the forward portion of the said partition J by means of pivoted operating-rods L, which project through apertures in the sides of the stove, and which are provided with handles. Each of these dampers is constructed of sheet metal and formed with curved outer edges, M, and with inner straight edges, N.

The hearth-extension is formed with a circular opening, O, which is encircled by a short downwardly-projecting cylindrical shell, P, in which is seated a coil-spring, Q, of stiff tension. To the upper portion of this spring are secured the clamping arms R, the lower ends of which are bent downwardly and project through slots S in the hearth-extension, and are then formed with hooks T, the object of which construction is to prevent the said ends from working out of the slots when the coil-spring raises the clamping-arms. An operating-lever, U, is fulcrumed to the under side of the stove to the rear, and extends diagonally across, and is provided with a flat plate or foot-piece, V. The forward end of this lever moves vertically in a guide, W, secured to the forward under portion of the stove, which guide is provided with a catch, X, the object of which will be hereinafter fully set forth. The intermediate portion of this operating-lever is connected to the clamping-arms by a compound hook, Y, passing up through the coils of the spring and secured to the clamping-arms where they cross and are secured to each other.

Z represents the cylindrical magazine, in which the straw or hay to be burned is placed and the peculiar construction of which I do not claim in this application. This magazine has two draft-doors, A' and B', respectively, and through which the fuel may be lighted and attended to. Another draft-door, C', is located at the lower end and communicates with a perforated draft-tube, D'. Handles E' upon the sides afford means whereby the magazine may be removed for refilling.

The operation of my invention is as follows: The operating-lever is depressed, carrying with it the clamping-arms, and is then hooked into the catch upon the guide. While in this position, the magazine, filled with fuel, (straw or hay,) is placed upon the said clamping-

arms, with its open top registering with the circular opening of the top partition. The operating-lever is now thrown out of engagement with the catch of the guide, which causes
 5 the spring to force the clamping-arms upwardly and to firmly clamp the magazine to the top extension of the stove, or rather to the metallic top partition above mentioned. The fuel is lighted and the draft-doors in the magazine are regulated, as desired, and the hot
 10 air now passes upwardly into the air-chamber C and furnishes a sufficient quantity of heat for cooking upon the top of the stove, passes back and then downwardly through two openings, F', in the top of the partition, and thus heats the oven. Now should it be desired to heat the oven more on one side than on the other, the slide-damper upon the side of the stove that is to receive the most heat is moved from
 20 over the circular opening of the top partition to one side by the operating-rod, thus permitting the hot air to escape from the magazine and to circulate more upon the side where desired than upon the other. This is a great
 25 advantage, for when cooking different eatables at the same time on top or in the oven of the stove one may require a great deal of heat, while it is only necessary to warm the other; but should it be desired to heat all parts of
 30 the oven alike both the operating-rods are pulled all the way out, or far enough to give the desired heat.

From the foregoing description, taken in connection with the accompanying drawings,
 35 the operation and advantages of my invention will be readily understood. If desired, I may, instead of employing the clamping device shown and described, simply provide the magazine with ears or bails and hang it on hooks
 40 attached to the under side of the top extension, or secure it in any other suitable manner which would suggest itself to an ordinary mechanic without departing from the spirit of my invention.

Having thus described my invention, I claim 45 and desire to secure by Letters Patent of the United States—

1. The combination, with the extended hearth and top of a cooking-stove, of the partition J, having the circular opening K, and
 50 forming hot-air chambers, dampers pivoted with their rear ends to said partition and operating with their forward enlarged ends over said circular aperture, operating-rods pivoted to said dampers and projecting through holes
 55 in the sides of the stove, and a removably-secured magazine, substantially as set forth.

2. The combination, with the extended hearth and top of the cooking-stove having hot-air chambers, of a magazine communicating with said chambers and spring-actuated
 60 clamping-arms, whereby the magazine is removably clamped to the top extension, substantially as set forth.

3. The combination, with the extended hearth and top of the cooking-stove having the hot-air chambers, of a magazine communicating with said air-chambers, spring-actuated clamping-arms, and an operating-lever
 65 connected thereto, substantially as set forth. 70

4. The combination, with the extended hearth and top of a cooking-stove having hot-air chambers, the extended hearth of which is provided with a series of slots and a downwardly-projecting cylindrical shell, of a fuel-
 75 magazine, clamping-arms projecting with their hooked ends through said slots, a coil-spring inclosed within said cylindrical shell, an operating-lever, a compound hook connecting said lever with said clamping arms, and a guide
 80 and catch for the free ends of said lever.

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

GODFRIED LAUBE.

Witnesses:

HATTIE R. LAUBE,
 SIMMIE GOMBAR.