

M. L. WOOD.

STOVE.

No. 186,286.

Patented Jan. 16, 1877.

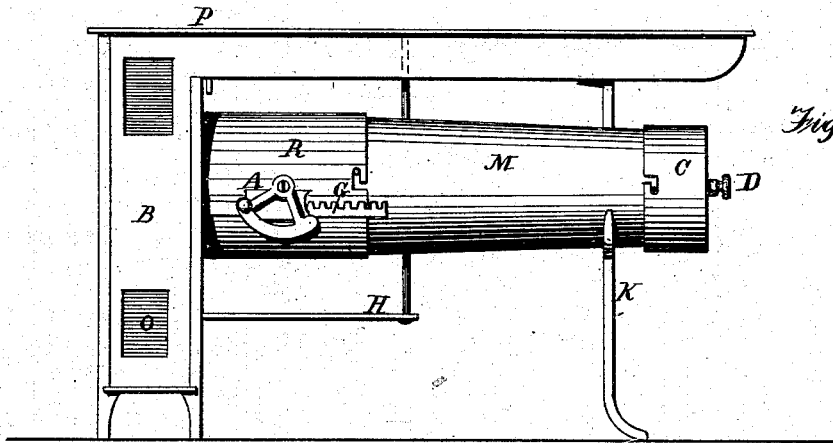


Fig. 1.

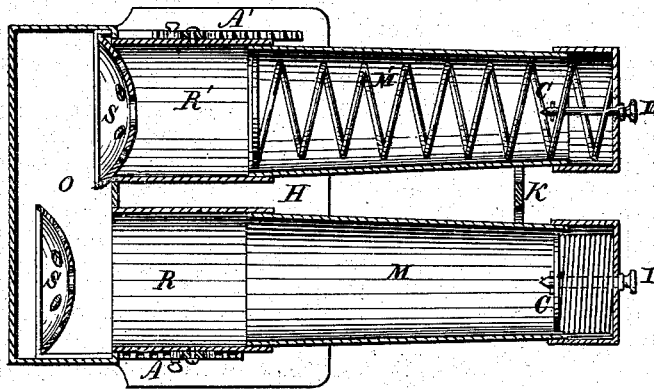


Fig. 2.

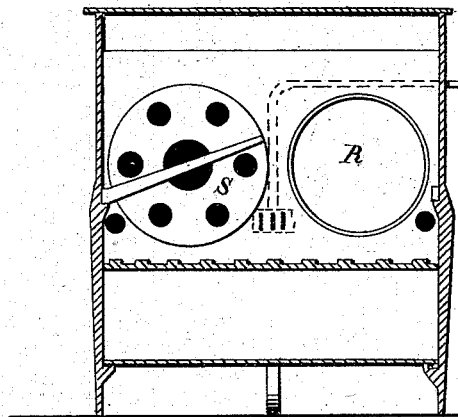


Fig. 3.

Witnesses;
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UNITED STATES PATENT OFFICE.

MERRITT L. WOOD, OF VALLEY SPRINGS, DAKOTA TERRITORY.

IMPROVEMENT IN STOVES.

Specification forming part of Letters Patent No. 186,286, dated January 16, 1877; application filed January 6, 1877.

To all whom it may concern:

Be it known that I, MERRITT L. WOOD, of Valley Springs, in the county of Minnehaha and Territory of Dakota, have invented certain new and useful Improvements in Stoves; 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 which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to provide an attachment to a stove whereby hay, straw, or shavings can be conveniently burned.

In the accompanying drawings the same letters indicate similar parts.

Figure 1 shows the side elevation of the stove, the position of receptacle R, magazine M, spring-cap C, head of bolt D, stop-bar G, ratchet-crank A, hearth H, forked leg K, the upper part of the stove being the same as any ordinary stove. Fig. 2 shows horizontal section of receptacle, magazine, screw-cap, bolt D, and stop S. Fig. 3 shows front elevation of stove, with the position and opening of receptacle R and stop S.

The fuel is introduced into the fire-box through the receptacle R. The magazine containing the supply of fuel, consisting of pressed hay or straw, is inserted into the receptacle and held by a pin and right-angled slot, and can be easily detached from the receptacle. The spring-cap C is likewise attached or detached from the magazine. When they are both connected, the coiled spring in the spring-cap C is set at liberty by turning the bolt D, and the fuel is pressed into the receptacle R, and thence into the fire-box.

The movable stop S, adjusted by the ratchet-crank A and the bar G, is designed to regulate the introduction of the fuel into the fire-box at the mouth of the receptacle, according to the amount of fire desired. The stop is made of perforated conical plates, bars, or any form adapted to that purpose.

The stop-bar G is held to its place at the side of the receptacle by means of a guide under the ratchet-crank A, and passes through the rear of the fire-box, and is at-

tached to the stop S, and moves it to or from the mouth of the receptacle.

The hearth H extends under the rear of the stove and back of the receptacle, and is designed to catch any litter caused by replacing the empty magazine with a filled one.

The leg K serves to hold up the rear end of the stove; also, by its forked construction, the magazine.

The bolt D passes through the center of the spring-cap C, and also through an oblong hole in the plate, to which the front of the spring is attached, and holds the coiled spring within the spring-cap by means of a cross-pin in the end, when turned at right-angles with the hole in the plate.

The receptacle and spring-cap are preferably constructed of cast-iron, while the magazine may be made of sheet-iron, and should be funnel-shaped, thereby affording less resistance to the passage of the fuel.

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

1. The horizontal magazine M, located beneath the griddle-holes, and connected with the rear of the fire-box, substantially as described, and for the purposes specified.

2. The receptacle R and the spring-cap C, containing spring and bolt D, with magazine M, all arranged and combined substantially as described, and for the purpose set forth.

3. The stop S, having the stop-bar G operated by means of the ratchet-crank A or its equivalent, substantially as described, and for the purpose specified.

4. The hearth H, located in the rear of the fire-box and underneath the receptacle, substantially as described, and for the purposes set forth.

5. In a stove or furnace, the combination of the magazine M, receptacle R, stop S, and spring-cap C, arranged and combined substantially as described, and for the purposes set forth.

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

MERRITT L. WOOD.

Witnesses:

F. H. TUBBS,
A. H. CROCKER.