

(No Model.)

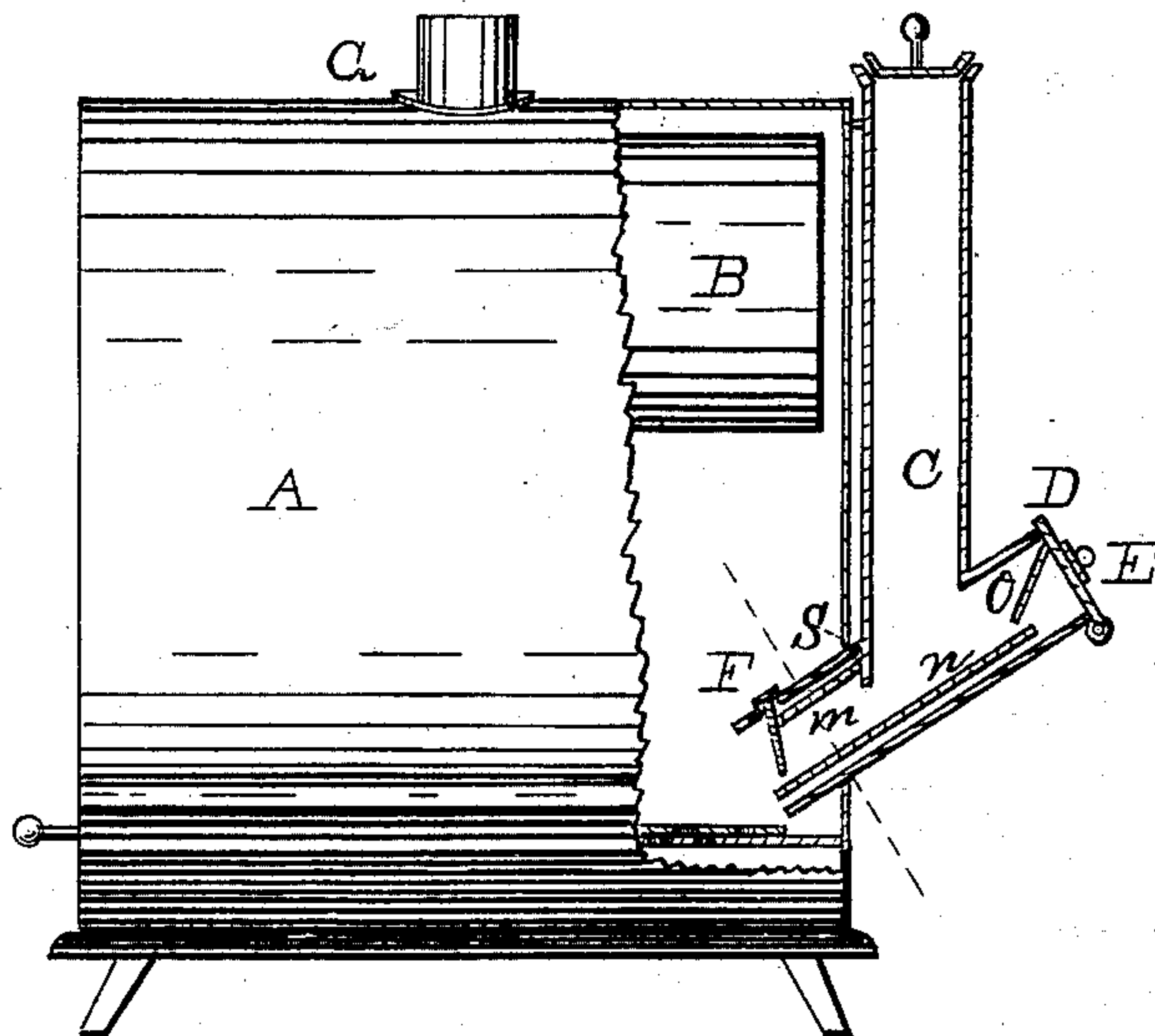
T. WILLI & C. LINXWEILER.

STOVE.

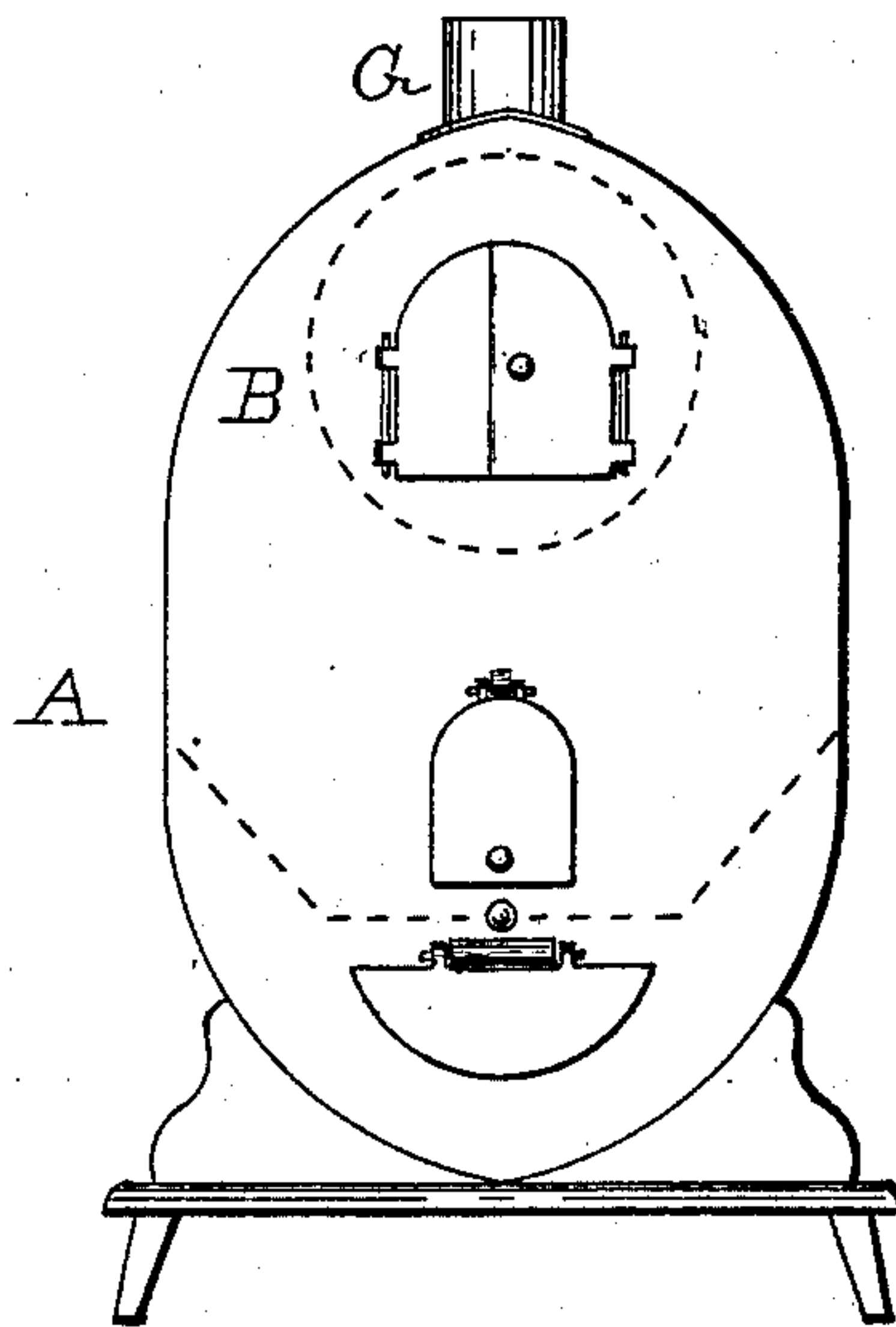
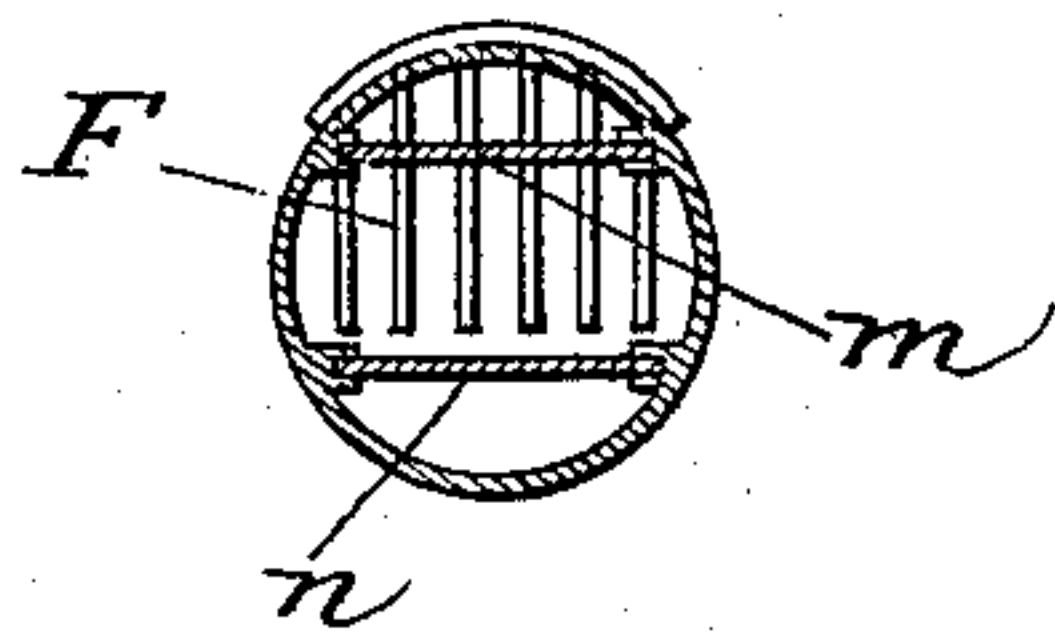
No. 268,066.

Patented Nov. 28, 1882.

*Fig. I*



*Fig. III*



*Fig. II*

WITNESSES:

*Fred Reibald*  
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# UNITED STATES PATENT OFFICE.

THEODORE WILLI AND CHARLES LINXWEILER, OF DAYTON, OHIO.

## STOVE.

SPECIFICATION forming part of Letters Patent No. 268,066, dated November 28, 1882.

Application filed June 21, 1882. (No model.)

*To all whom it may concern:*

Be it known that we, THEODORE WILLI and CHARLES LINXWEILER, citizens of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented new and useful Improvements in Stoves, of which the following is a specification.

Our invention relates to the attachment externally of a magazine to the rear part of a stove, the same being so connected with the interior grate-surface and so provided with air-conduits that very perfect combustion is secured.

The mechanism of our invention is illustrated in the accompanying drawings, in which Figure I is a side view of the stove with a portion cut away and parts shown in section. Fig. II is a front view of the same. Fig. III is a section of the feed chute on the dotted line, Fig. I, as it would appear looking from the rear of the stove.

Like letters of reference on the several figures designate like parts.

A represents the external case or body of the stove. Within the upper part, and connected with the front plate, is the oven B, which is provided with a suitable rack and brackets for its support. Double doors are hinged to the front plate opening into the oven. Near the bottom are two grate-plates, the lower stationary and the other resting on it. These have correspondingly oblong orifices arranged transversely, and by moving the top plate the grate is opened or closed, as may be desirable. In this form of grate the objects are twofold—first, for clearing the grate from ashes, and, secondly, to prevent the inlet of air from beneath the grate when it may be desirable. A suitable ash-pan is placed beneath the said grate, and a door is provided for the removal of said pan. Above this door is provided another, which is useful for the purpose of removing clinkers from the grate.

To the rear part of the stove is attached a magazine, C, the oblique part of which passes through the back plate, and terminates immediately above the grate, and extends outwardly, and to which extension is hinged the door D. To this door is attached the projecting plate O, which serves the double purpose of

preventing the coal falling back against the door and preserving an air-space over the plate *n*. E is a sliding register in the door, and which may be circular in form. The plate *n* is supported, as usual, by ledges on the sides of the magazine, and may be either corrugated cast-iron plates or plates of fire-clay. The air admitted through the register passes beneath this plate and comes in contact with the fuel at the grate. The plate *m* is of similar construction, and is suspended in the same manner, and has a space between it and the lower end of the magazine. Small orifices S provide for the admission of air to this interspace. This air comes in contact with the disengaged particles of carbon and insures very perfect combustion.

F is a toothed grate, which hangs suspended within an orifice in the lower end of the magazine, and serves to prevent the coal falling upon the grate-surface until partial disintegration has taken place.

To build a fire in the stove, open the magazine-door and place kindling within, light, and fill the magazine with coal, close the magazine, and open register. Combustion continues and the products arising around the oven pass off through the pipe G. When replenishing the magazine, close the register and grate, and when the top lid is replaced open the same.

The body of the stove may be variously modified, and what we regard as our invention is the external magazine and its relation to the grate of a stove, as herein specified.

The invention likewise is applicable to a steam-boiler furnace.

Having fully described our invention, what we claim, and desire to secure by Letters Patent, is—

The external magazine, C, the door D of the same, having projecting plate O and register E, the plates *m* and *n*, providing for air-inter-spaces, and the grate F, or its equivalent, in combination with a stove, substantially as herein set forth.

THEODORE WILLI.  
CHARLES LINXWEILER.

Witnesses:

B. PICKERING,  
JOHN HANITCH.