

A. WHITE.  
Stove Grate.

No. 99,613.

Patented Feb. 8, 1870.

Fig. 1.

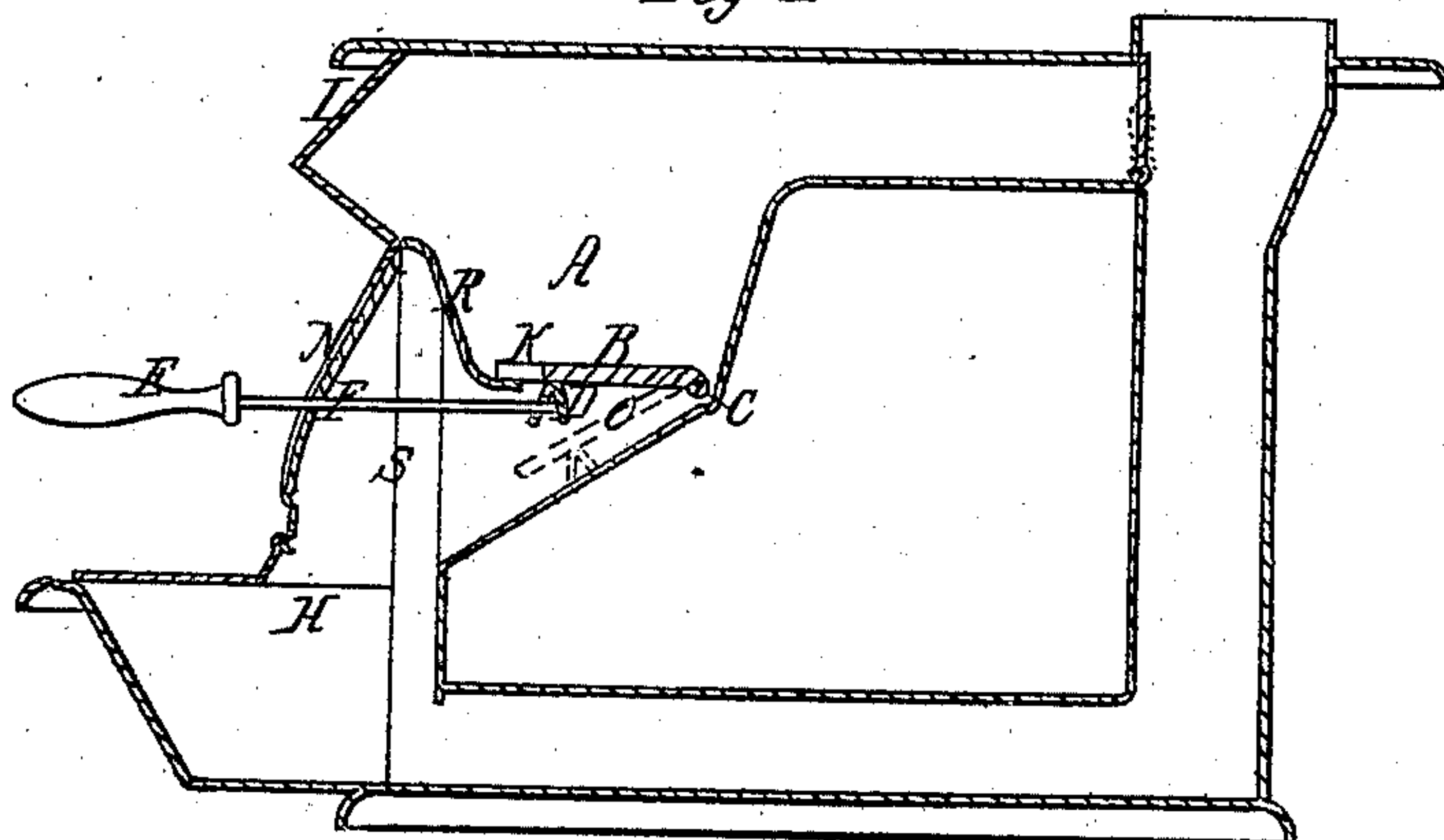


Fig. 3.

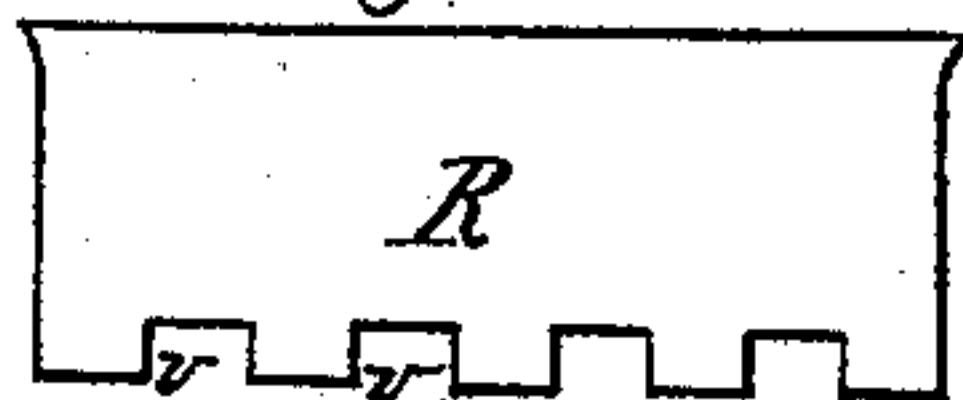
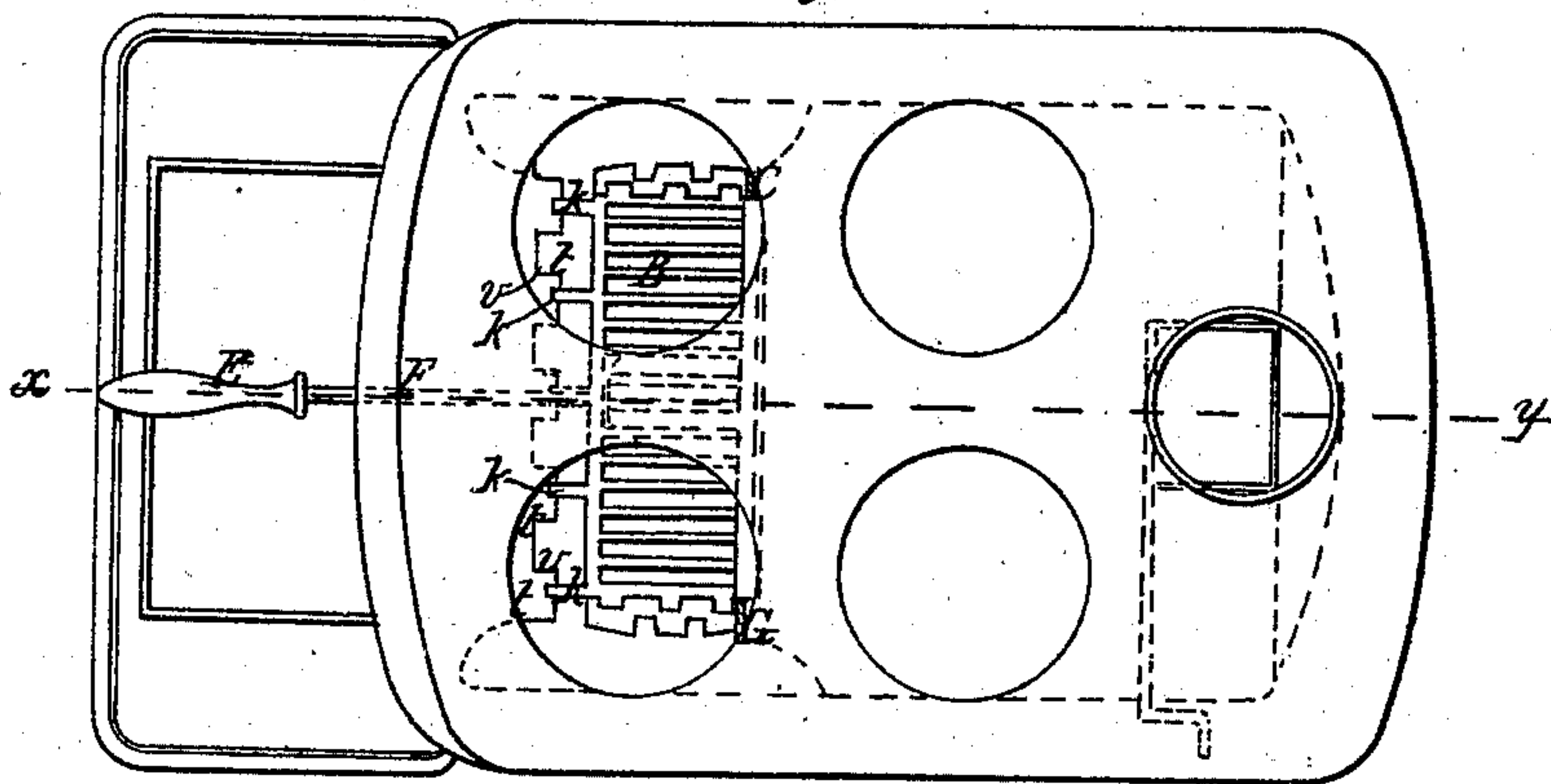


Fig. 2.



Witnesses;  
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# United States Patent Office.

ALEXANDER WHITE, OF GENESEO, ILLINOIS, ASSIGNOR TO HIMSELF, ALEXANDER H. HAMMOND, AND ISAAC D. RUGGLES, OF SAME PLACE.

Letters Patent No. 99,613, dated February 8, 1870.

## COOKING-STOVE.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern: -

Be it known that I, ALEXANDER WHITE, of the city of Geneseo, in the State of Illinois, have invented certain new and useful Improvements in Cook-Stoves; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, forming a part of this specification.

The nature and object of my invention is to provide an efficient and useful method of shaking and dumping the grate, and a commodious means of discharging the ashes into the ash-pan.

Figure 1 is a vertical longitudinal section through the line *x y* of fig. 3;

Figure 2 is a top view; and

Figure 3 is a top view of the front part of the fire-box, with the projections *t t*.

Similar letters of reference refer to similar parts in the different figures.

My stove is constructed in the ordinary form externally, with the exception of the front.

A is the fire-box. Fuel is fed into it through the feed-doors I.

B is the grate, made with two trunnions, *c c*.

These trunnions enter into receptacles made for them in the sides of the fire-box.

D is a double projection, extending down from the front edge of the grate.

E is a handle or shaker, extending through front of the stove at F; and through the first of the projections at D, and against the second one.

K are projections, extending forward from the grate, and resting upon corresponding projections *t t* from the front of the fire-box R.

N is the front of the stove, extending from the vertical line S, forward to a distance in front of this line S, forming a swell-front, and a wider opening between the grate and the front than has been hitherto employed, for the purpose of discharging the ashes and cinders into the ash-box H.

The swelling of the front in this way, and, conse-

quently, opening of the throat leading into the ash-box so wide, prevents the ashes or cinders from falling through the doors, when they are opened, on to the hearth, but admits of their freely falling into the ash-pan.

The rear end or side of the grate is supported upon the trunnions *c c*, and they are made sufficiently long to admit of a lateral motion, and the front part is supported upon the projections *t t*, extending from the front part of the fire-box R, by means of the corresponding projections *k*, extending from the grate.

The projections *t t* are wider than the corresponding one *k*, and have at one a raised side, *v v*.

In shaking the grate, the shaker E is inserted through the aperture F of the swell-front, and into the first of the projections D, and against the second one. The shaker is then moved from right to left, or up and down, as the case may be. The raised sides or edges *v v* prevent the grate-supports K slipping off, when the grate is shoved to the left, and the trunnions *c c* prevent its slipping off when it is shoved to the right, as the sides of the fire-box prevent it from going sufficiently far to do so.

When it is desired to dump the grate, the shaker E is borne down and carried to the right. This raises the front side of the grate, and carries it to the left, over the elevated sides *v v*, when the shaker E can be removed or raised up, and the grate is dumped, as shown by the dotted lines *o*, and the ashes and cinders readily pass into the ash-box H.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The construction and arrangement of the grate B, substantially as and for the purpose specified.
2. The combination of the grate B with the projections *t t*, substantially as and for the purpose specified.

ALEXANDER WHITE.

Witnesses:

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