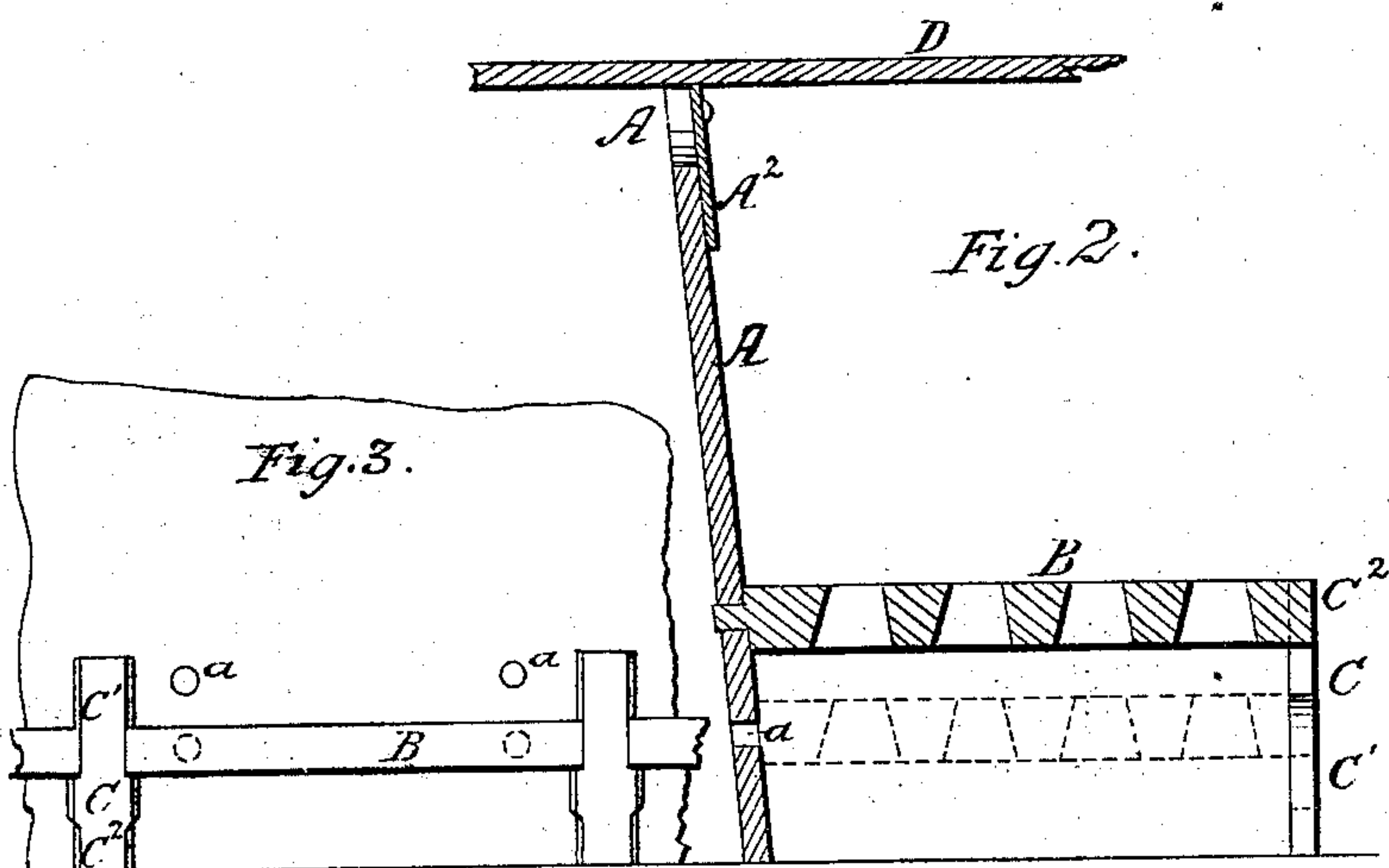
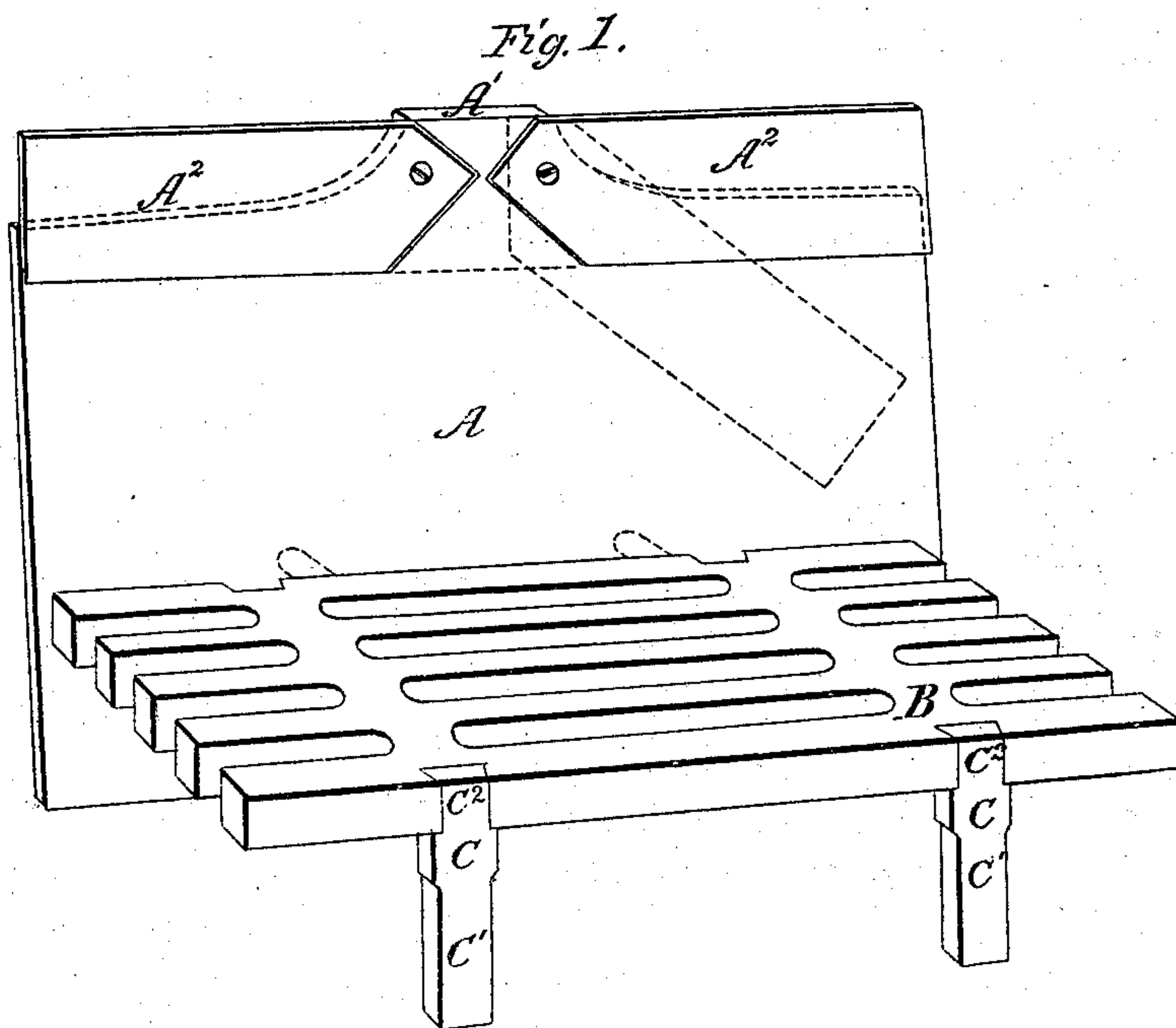


SLUSSER & MEECH.

Stove Grate and Back.

No. 104,070.

Patented June 7, 1870.



Witnesses.
C. F. Clausen
D. Edw. Eile

Inventors.
J. B. Slusser
W. H. Meech
per L. P. Holloway & Co.
Attys.

United States Patent Office.

JAMES B. SLUSSER AND WILLIAM H. MEECH, OF ROANOKE, INDIANA.

Letters Patent No. 104,070, dated June 7, 1870.

GRATE AND BACK FOR COOKING-STOVES.

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

To all whom it may concern:

Be it known that we, JAMES B. SLUSSER and WILLIAM H. MEECH, of Roanoke, in the county of Huntington and State of Indiana, have invented certain Improvements in Grate and Back for Cooking-Stoves; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawing making part of this specification, in which—

Figure 1 is a perspective view of our improved grate and back.

Figure 2 is a transverse vertical section thereof, showing also a portion of the top plate of a cooking-stove.

Figure 3 is a front elevation, showing the grate in its lowest position.

The same letters are used in all the figures to designate identical parts.

This invention relates to cooking-stoves; and

Our improvements consist in the construction of the fire-box back, and in combining therewith dampers and an adjustable grate, as will more fully appear from the following specification and claims.

To enable those skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

In the annexed drawing—

A represents the back of the fire-box of a cooking-stove, extending below the grate to rest upon the bottom plate, and, above such grate, to connect at its central portion A¹ with the top plate D of such stove.

From the portion A¹ to its sides parts are cut away from its upper edge, as clearly shown in dotted lines in fig. 1, to form two throats or flues through which the flame and other products of combustion may pass under the kettles.

Heretofore the upper edge of the fire-box back has been made straight, so as to form one continuous flue between it and the top plate of the stove.

This form of construction is objectionable, because it permits much of the heat to pass between the kettles and directly to the smoke-pipe, without being utilized.

This waste is prevented by our form of construction. The projecting portion A¹, dividing the flame and heated gases, compels them to pass under the kettles and around them.

Dampers A² A² are pivoted on the part A¹, extend-

ing outward to the sides of the back, and are used to regulate and direct the draught.

B represents the grate, which, in its general construction, may be of any approved pattern.

It is suitably attached to the back A by means of dowel-pins b, formed upon its rear edge, and fitting into holes in such back, and its front end is supported on the bottom plate of the stove by reversible legs, fitting in dovetailed grooves in the front edge of the grate.

By reference to figs. 1 and 3 it will be observed that these legs are constructed with an enlarged part, C, and the ends C¹ and C², either of which ends fits in the dovetailed grooves in the grate, the end C¹ being considerably longer than the end C², so that, on inserting one end or the other, the grate may be supported by them in a higher or lower position.

The holes a a' in the back A permit of adjustment of the grate at that point of its support.

In burning different kinds of fuel in the same stove, it is found desirable to have a grate which can be raised or lowered to suit the circumstances under which it is to be used, in order to economize in the consumption of such fuel. When, for instance, wood is used, to obtain the best results, the plate should be closer to the top plate than when coal is used. For this our adjustable grate provides in a very simple and convenient manner.

What we claim, and desire to secure by Letters Patent, is—

1. The fire-box back A, constructed with the projecting portion A¹, substantially as and for the purpose set forth.

2. In combination with the back A A¹, the dampers A² A², arranged substantially as and for the purpose set forth.

3. The combination of a back, A, adjustable grate B, and reversible legs C C¹ C², substantially as and for the purpose set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

JAMES B. SLUSSER.
WILLIAM H. MEECH.

Witnesses:

CHAS. F. EBERSOLE,
J. H. JONES.