

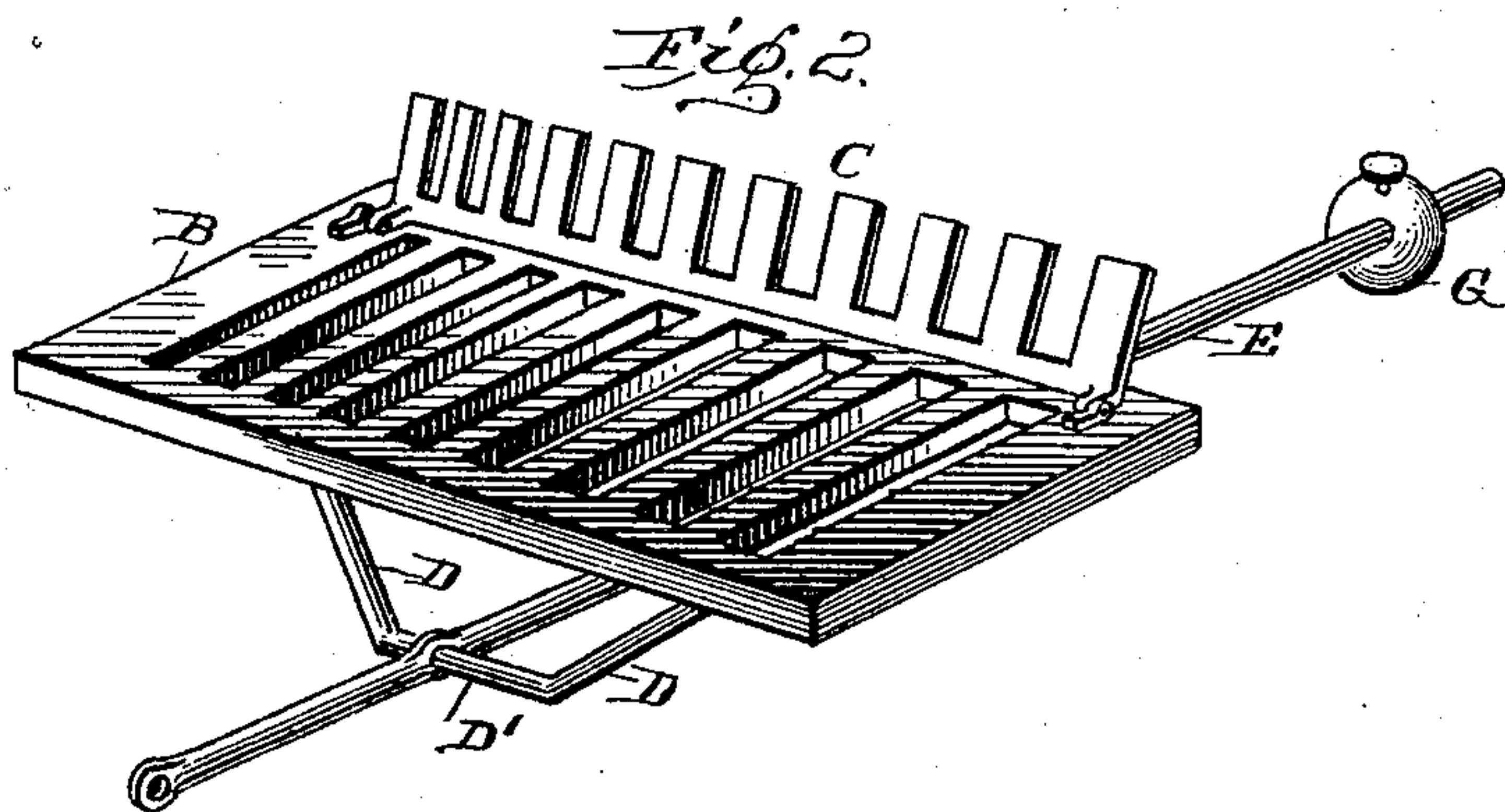
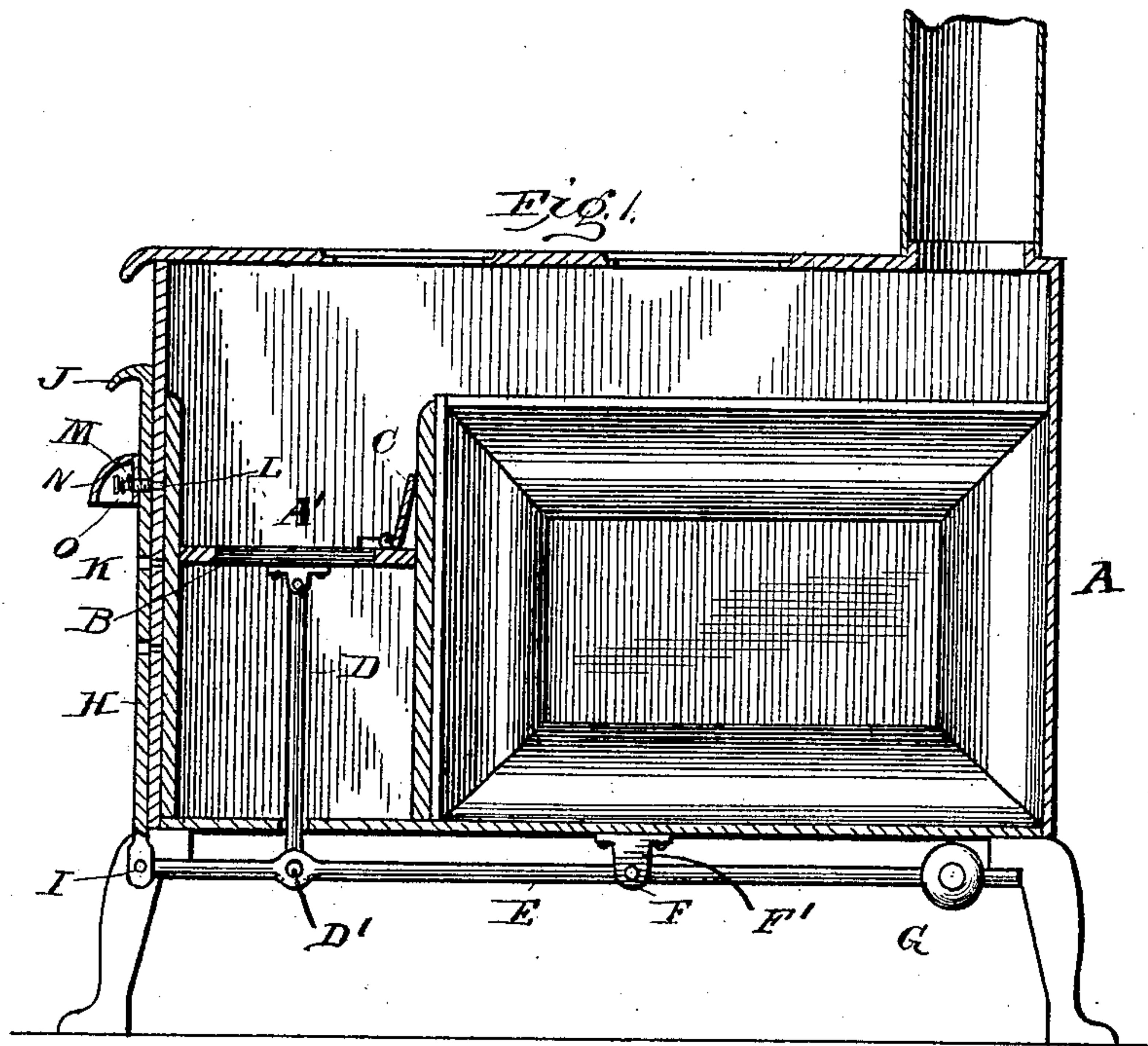
No. 682,778.

P. ANDERSON.
STOVE.

Patented Sept. 17, 1901.

(Application filed Mar. 30, 1900.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

PHILLIP ANDERSON, OF DENVER, COLORADO.

STOVE.

SPECIFICATION forming part of Letters Patent No. 682,778, dated September 17, 1901.

Application filed March 30, 1900. Serial No. 10,859. (No model.)

To all whom it may concern:

Be it known that I, PHILLIP ANDERSON, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Stoves, of which the following is a specification.

This invention relates to stoves, and more particularly to that class in which the grate is made adjustable.

One object of this invention is to provide a stove-grate adapted to be raised or lowered by a handle and secured in the desired position by a locking-bolt.

Another object of this invention is to provide a stove-grate adapted to be supported by a system of levers, which are so arranged as to make the adjustment of the grate entirely automatic.

With these objects in view and such others as may hereinafter appear my invention consists in the particular construction of the various parts and in the novel manner of combination or arrangement of said parts, all of which will be described and specifically claimed.

In the drawings forming a part of this specification, Figure 1 is a vertical central longitudinal section through a stove embodying my invention. Fig. 2 is a detail view of the grate.

Referring by letters to the drawings, A represents the stove or range to which my invention is applied.

A' is the fire-chamber.

The invention consists in a vertically-movable grate B, having a pivoted leaf C and supported pivotally by two arms D, extending from a rod D', which is pivotally connected to a lever E, fulcrumed to a bracket F' on the body of the stove at the point F and provided with a sliding counterbalance-weight G, which will automatically raise the grate or permit the latter to be lowered, according to the amount of coal on the grate. The grate is further made adjustable by a lift-rod H, which is pivoted to the outer end of the lever E at the point I and is adapted to lie flat against the face of the stove. This rod is provided with a handle J and a series of apertures K, adapted to register with an aperture L in the face of the stove and to be engaged by the set-bolt M, secured in the holder N and provided with a coil-spring O, which forces the

bolt out when it is desired to have the adjustment of the grate automatic.

It will thus be seen that I provide an automatically-adjusted grate for stoves or furnaces, which is exceedingly cheap and simple in its construction and will efficiently perform all of its intended functions.

Having thus described the various features of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A stove comprising a body, a pendent bracket secured to the bottom thereof, a lever fulcrumed to the bracket, a rod pivotally mounted in the lever, and having diverging supporting-arms, and a grate pivotally mounted on the supporting-arms.

2. A stove comprising a body, a pendent bracket secured to the bottom thereof, a lever fulcrumed to the bracket, a counterbalance-weight on the lever, a rod pivotally mounted in the lever and having diverging supporting-arms, a grate pivotally mounted on the supporting-arms, and a leaf hinged to the grate and sliding on the back of the fire-channel.

3. A stove comprising a body, a pendent bracket secured to the bottom thereof, a lever fulcrumed to the bracket, a counterbalance-weight on the lever, a rod pivotally mounted in the lever, and having diverging supporting-arms, a grate pivotally mounted on the supporting-arms, a holder secured to the face-plate of the body, a lift-rod pivoted to the front end of the lever, working in the holder, and having a handle, and means for locking the lift-rod at desired height.

4. A stove comprising a body having a perforated face-plate, a pendent bracket secured to the bottom of the body, a lever fulcrumed to the bracket, a counterbalance-weight on the lever, a rod pivotally mounted in the lever, and having diverging supporting-arms, a grate pivotally mounted on the supporting-arms, a holder secured to the face-plate of the body, a spring set-bolt working in the holder, and engaging the perforated face-plate, and a lift-rod having a series of bolt-holes, pivoted to the front end of the lever, working in the holder, and having a handle.

In testimony whereof I hereto set my hand.

PHILLIP ANDERSON.

Witnesses:

C. S. PAINE,

J. S. BRAGG.