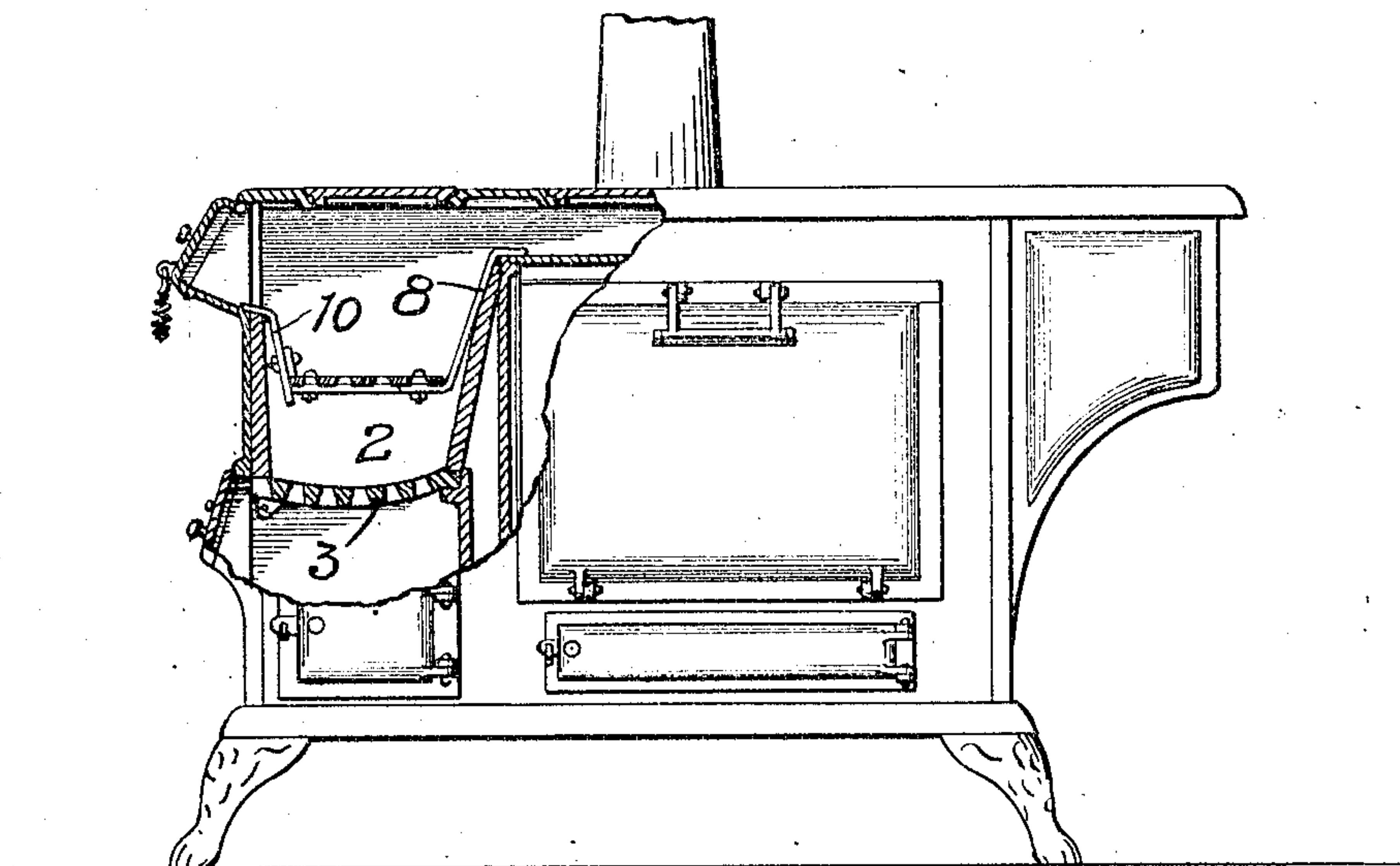


No. 871,266.

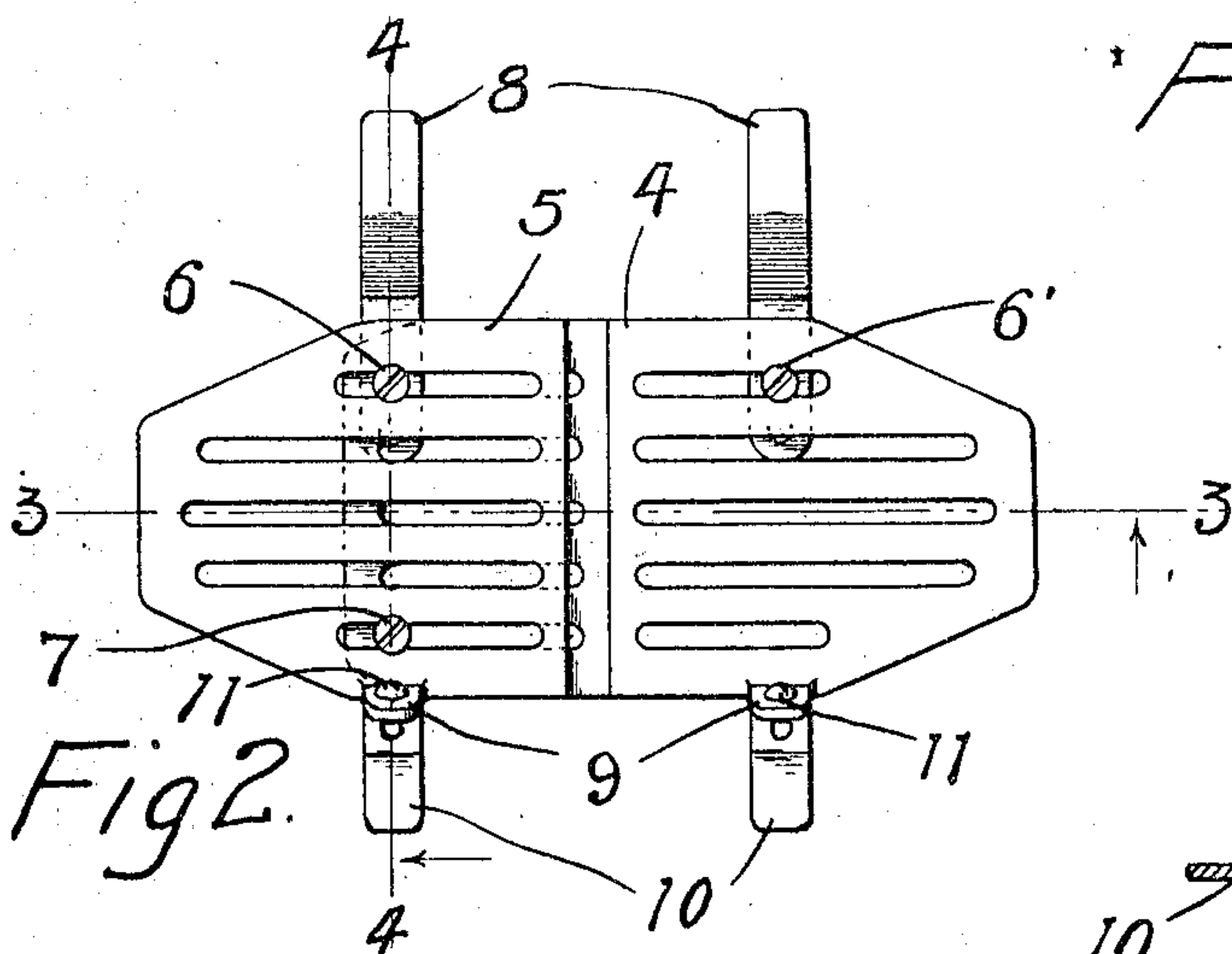
PATENTED NOV. 19, 1907.

L. GERTENBACH.  
AUXILIARY GRATE FOR STOVES AND RANGES.

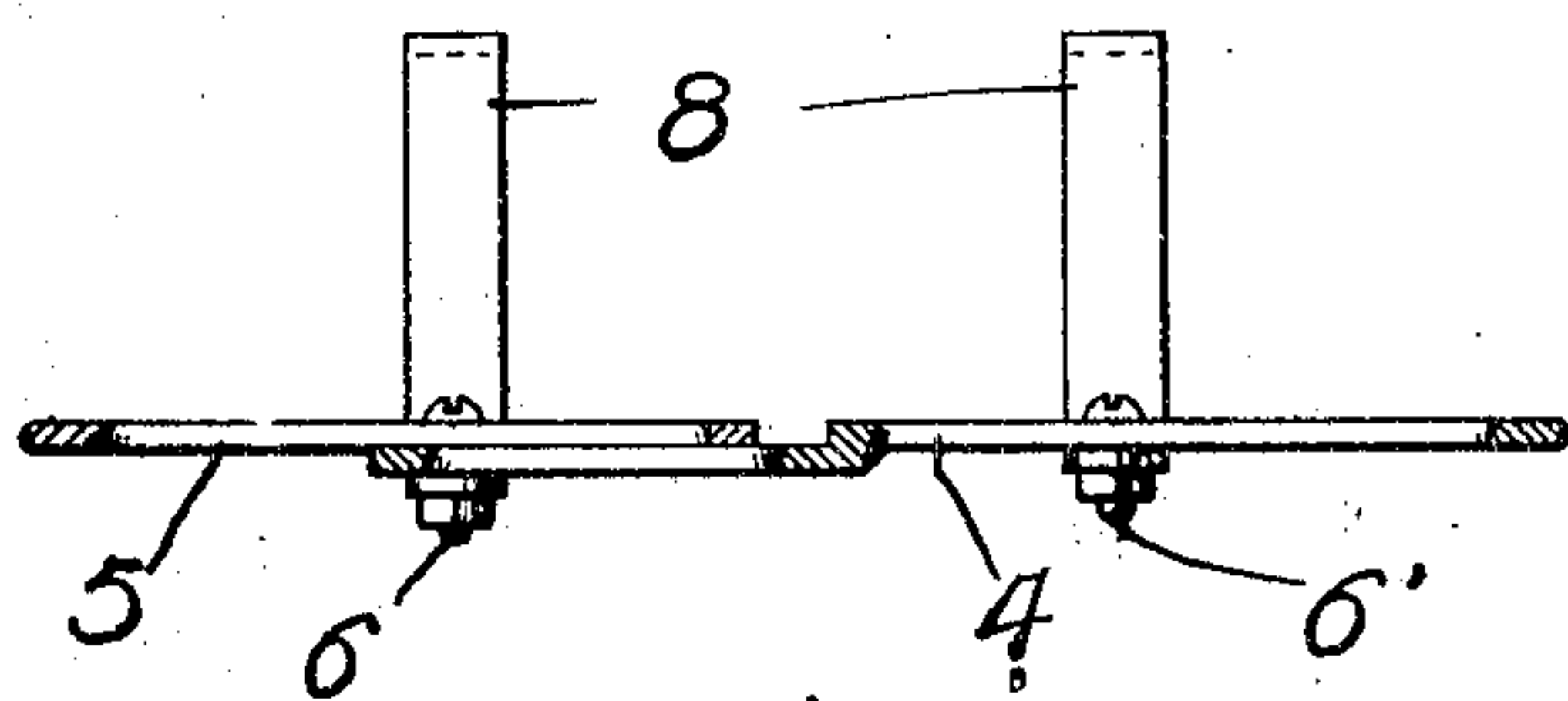
APPLICATION FILED OCT. 17, 1906.



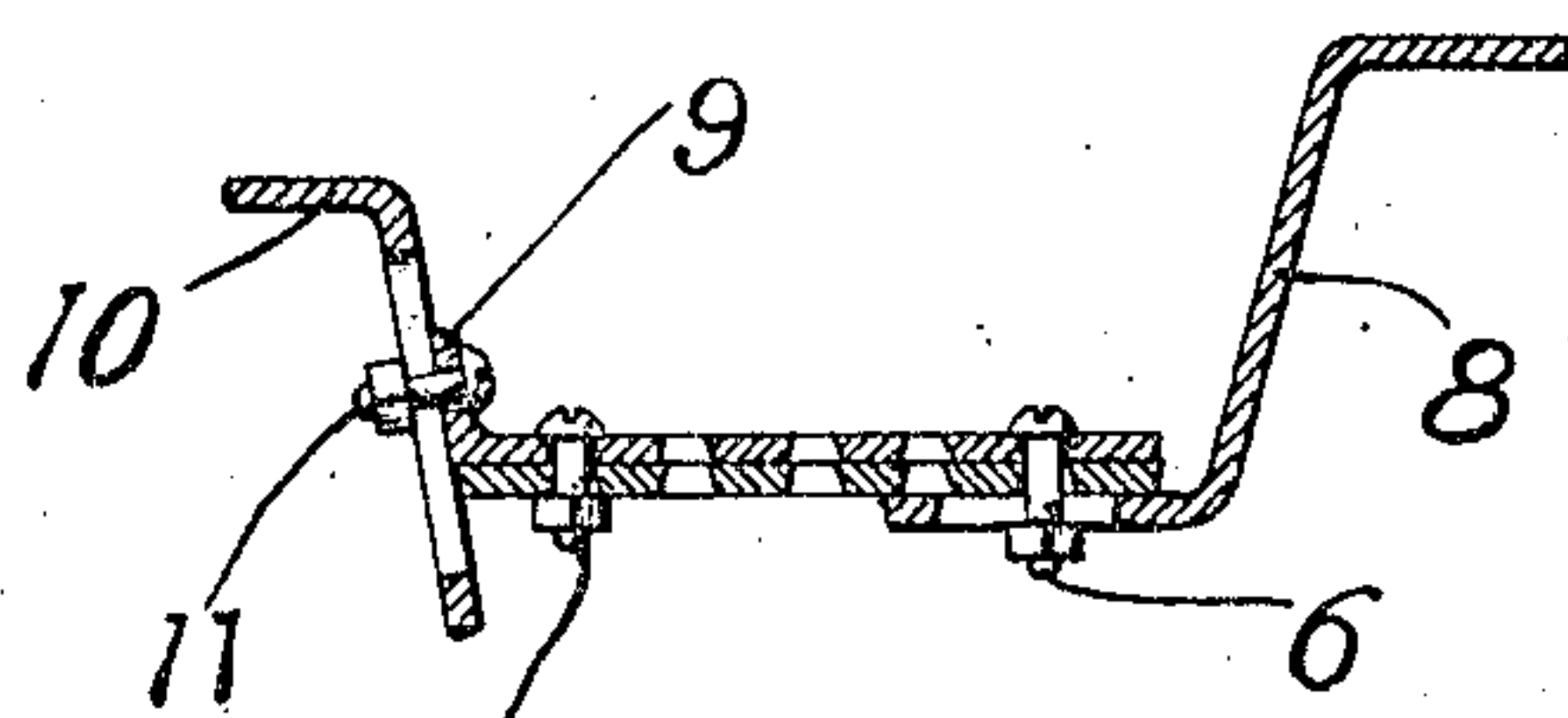
*Fig 1.*



*Fig 2.*



*Fig 3.*



*Fig 4.*

WITNESSES  
*J. B. E. Co.*

INVENTOR  
LOUISE GERTENBACH  
BY *Paul & Paul*  
HER ATTORNEYS



# UNITED STATES PATENT OFFICE.

LOUISE GERTENBACH, OF DUBUQUE, IOWA.

## AUXILIARY GRATE FOR STOVES AND RANGES.

No. 871,286.

Specification of Letters Patent.

Patented Nov. 19, 1907.

Application filed October 17, 1906. Serial No. 339,367.

To all whom it may concern:

Be it known that I, LOUISE GERTENBACH, of Dubuque, Dubuque county, Iowa, have invented certain new and useful Improvements in Auxiliary Grates for Stoves and Ranges, of which the following is a specification.

This invention relates to improvements in auxiliary grates designed especially for use with cook stoves or ranges; and the objects I have in view are to provide a grate of this character that can be quickly placed in an ordinary coal-burning stove or range and supported a distance from the bottom of the fire box so as to form a suitable grate for use in burning wood.

As coal-burning stoves or ranges are usually constructed they are provided with a deep fire-box having a coal grate at the bottom thereof, below which is an ash pit and stoves of this character are not convenient for use in burning wood, the fire-box being too deep.

This invention consists generally in the constructions and combinations hereinafter described and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification; Figure 1 is a side elevation, partly in section, of a stove or range having my improved auxiliary grate applied thereto. Fig. 2 is a plan view of the auxiliary grate. Fig. 3 is a longitudinal section on the line 3—3 of Fig. 2. Fig. 4 is a transverse section on the line 4—4 of Fig. 2.

In the drawings, 2 represents the fire-box of an ordinary coal burning stove or range and 3 the usual coal grate thereof. I provide an auxiliary grate that is capable of being supported upon the upper edges of the walls of the fire box in any desired position, and that is adjustable so as to adapt it to fit any ordinary stove. The grate proper consists of the plates 4 and 5 each provided with a series of slots and said plates overlapping each other with their upper surfaces level, as shown in Fig. 3. There is considerable overlap to the two plates so that by adjusting one longitudinally upon the other the length of the grate may be varied to a considerable extent. The two plates 4 and 5 are secured together by means of the bolts 6 and 7 which pass through slots in said plates (see Fig. 2).

For supporting the auxiliary grate I provide the rear hangers 8 which are adapted to rest at their upper ends upon the top of the rear wall of the fire box and are provided with the horizontal lower portions having suitable slots which are engaged by the bolt 6 and by a corresponding bolt 6'. The arrangement of these bolts in the longitudinal slots of the auxiliary grate permit the hangers to be adjusted longitudinally of the grate so as to bring them into any desired position for supporting the grate.

The plates 4 and 5 are each provided at their forward edge with an up-turning lug 9 and a slotted hanger 10 is connected to each of these lugs by means of a suitable bolt 11. This arrangement permits the hangers 10 to be adjusted so as to suitably engage the upper edge of the forward wall of the fire-box and in connection with the rear hangers 8 to hold the auxiliary grate in a horizontal position.

This structure provides an auxiliary grate adapted to stoves or ranges of various kinds. The auxiliary grate is longitudinally adjustable and may therefore be made to suit the length of the fire-box with which the device is to be used and the arrangement of the hangers permits the auxiliary grate to be supported in a horizontal position even though there may be considerable variation in the height of the front and rear walls of the fire-box.

The device is simple in construction and may be readily put into or taken out of any ordinary stove or range.

I do not limit myself to the details of construction as the same may be varied in many particulars without departing from my invention.

I claim as my invention:

1. The combination, with a stove or range, of an auxiliary grate comprising overlapping plates 4 and 5 having longitudinal slots therein, bolts 6 and 7 passing through the slots in the overlapping ends of said plates and adjustably securing them together, rear hangers 8 adapted to rest at their upper ends upon the rear wall of the fire box and having slotted horizontal lower portions through which the bolts on one side of said plates extend, and said plates 4 and 5 having upwardly turned lugs 9 at their forward edges and slotted hangers adjustably connected

with said lugs and having upper portions adapted to rest on the forward wall of the fire box whereby the said grate can be adjusted to accommodate itself to the stove in which it is placed, substantially as described.

2. The combination, with a stove or range, of an auxiliary grate comprising plates overlapping one another, and means adjustably securing them together, rear hangers adapted to rest at their upper ends upon the rear wall of the fire box and having lower portions adjustably connected to said plates, and said plates having upwardly turned lugs

at their forward edges and hangers adjustably connected with said lugs and having upper portions adapted to rest on the forward wall of the fire box, whereby the grate can be adjusted to accommodate itself to the stove in which it is placed.

In witness whereof, I have hereunto set my hand this 9th day of October 1906.

LOUISE GERTENBACH.

Witnesses:

HENRY MICHEL,  
J. L. HUSTED.