

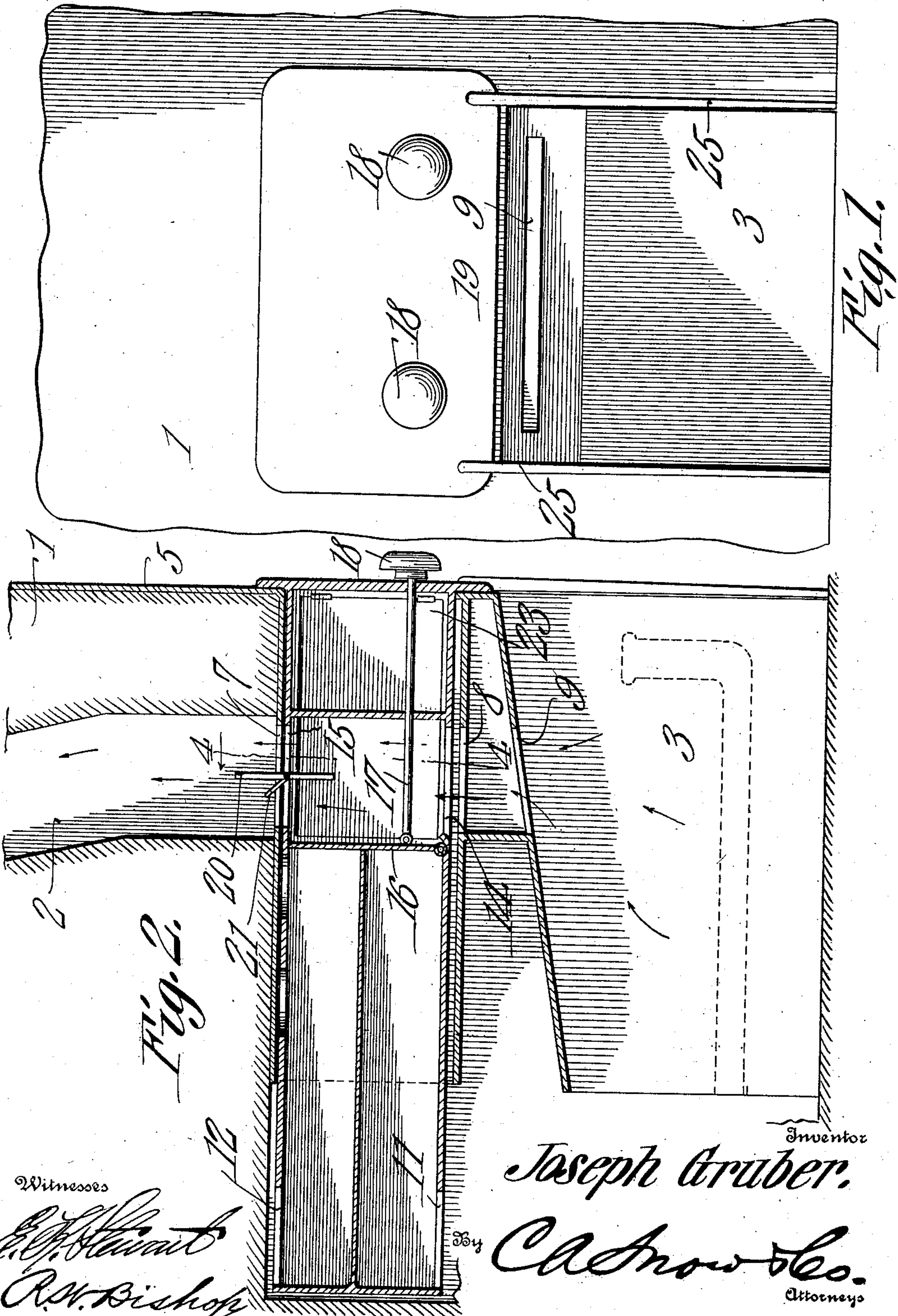
J. GRUBER.  
STOVE.

APPLICATION FILED FEB. 23, 1910.

973,650.

Patented Oct. 25, 1910.

2 SHEETS—SHEET 1.



Witnesses  
*E. H. Hunt*  
*R. W. Bishop*

*Joseph Gruber.*

Inventor

*C. A. Snow & Co.*

Attorneys

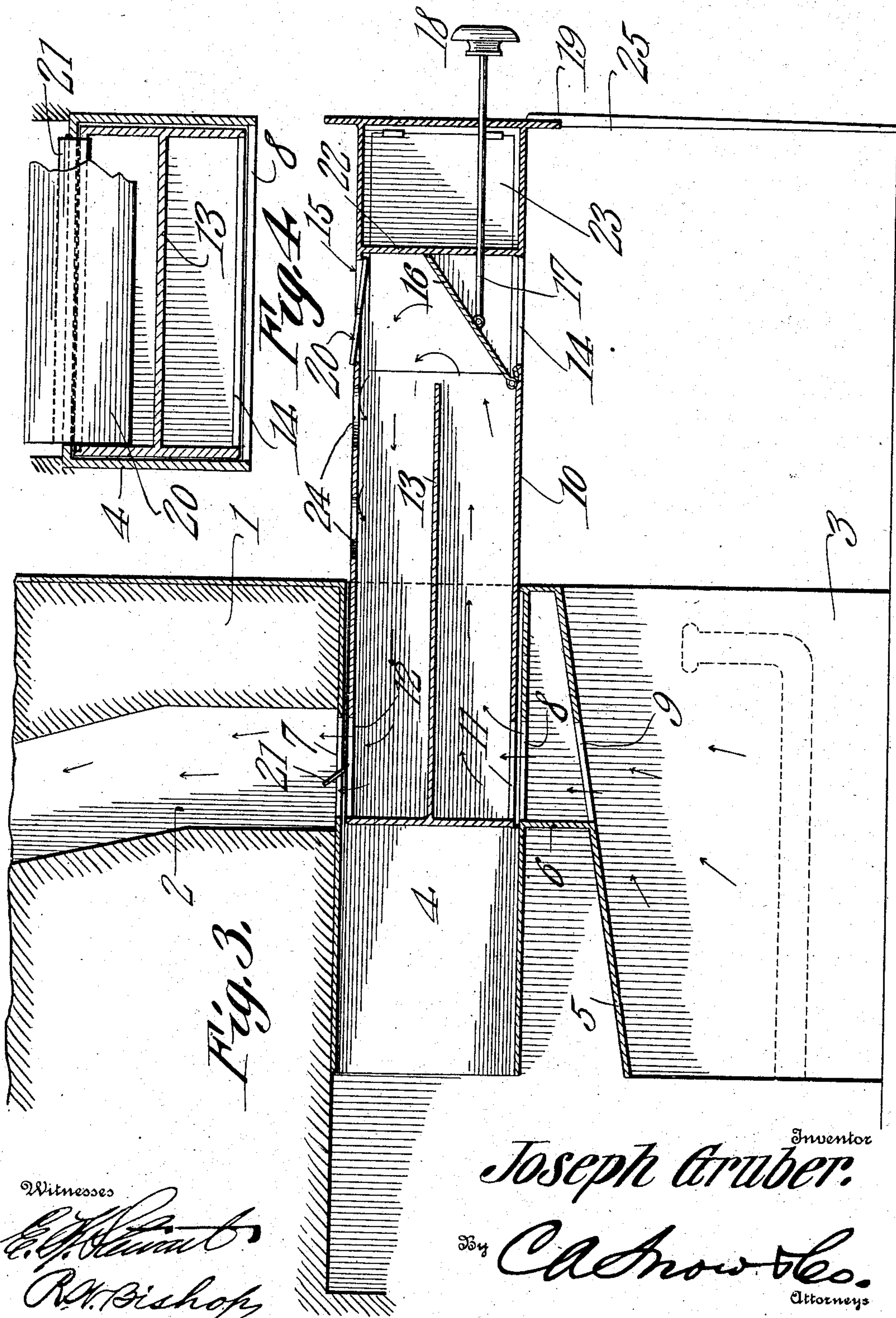
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By *C. A. Snow & Co.* Attorneys



# UNITED STATES PATENT OFFICE.

JOSEPH GRUBER, OF TAMPA, FLORIDA.

## STOVE.

973,650.

Specification of Letters Patent.

Patented Oct. 25, 1910.

Application filed February 23, 1910. Serial No. 545,519.

*To all whom it may concern:*

Be it known that I, JOSEPH GRUBER, a citizen of the United States, residing at Tampa, in the county of Hillsboro and State of Florida, have invented a new and useful Stove, of which the following is a specification.

This invention relates to improvements in stoves and the object of the invention is to provide a simple device which may be used in connection with a fire-place for cooking purposes without any interference with the ordinary use of the fire-place for heating purposes.

The invention consists in certain novel features which are illustrated in the accompanying drawings and will be hereinafter first fully described and then specifically pointed out in the appended claims.

In the annexed drawings, Figure 1 is a front elevation of a fire-place showing my improved stove in position over the same. Fig. 2 is a longitudinal section showing the stove moved into the wall and arranged to permit the products of combustion from the grate to pass directly into the chimney. Fig. 3 is a similar view showing the stove withdrawn into position for use. Fig. 4 is a transverse vertical section on the line 4—4 of Fig. 2.

In the accompanying drawings, 1 designates a wall having a chimney 2 therein and an open fire-place 3 at the lower end of the same, a grate being indicated in dotted lines within the fire-place.

In carrying out my invention, I arrange within the wall above the fire-place a housing 4 having an ornamental facing 5 which is arranged in front of and around the fire-place opening so as to impart an ornamental appearance to the walls within the room. This housing 4 is preferably of a tubular form and is connected with the arch or top plate of the fire-place 3 by a vertical wall or brace 6 and is provided in its upper and lower sides with openings 7 and 8 registering with the chimney 2 and with an opening 9 in the top or arch 5 of the fire-place in advance of the partition 6, as clearly shown in Figs. 2 and 3. It will be readily seen that the smoke and other products of combustion arising from the grate will pass through the openings 9 and 8 and if no obstruction to their course is offered, will pass directly into the chimney through the opening 7.

The stove 10 is slidably mounted within

the tubular housing 4 and consists of a casing or box having top and bottom and side walls and provided in its top and bottom at its rear end with openings 11 and 12, while within the box or casing is a horizontal partition 13 projecting forwardly from the rear end of the casing. The box or casing is also provided with openings 14 and 15 in its bottom and top near its front end, and the said partition 13 terminates close to the vertical plane of the rear sides of said openings, a damper 16 being hinged upon the bottom of the casing in rear of the said openings and being adapted to rest against the front end of the said partition when in its raised position, as shown in Fig. 2. This damper 16 is connected by rods 17 with knobs or handles 18 disposed on the front end of the box or casing 10 and the said front end is extended beyond the walls of the casing to form flanges 19 adapted to bear against the facing 5, and thereby prevent the leakage of any heat or smoke or other products into the room when the stove is not in use. It will be readily seen that as the rods 17 are pivotally attached to the damper 16 above the pivotal connection of the said damper with the bottom of the stove, the initial pull upon the handles or knobs will swing the damper forward into the position shown in Fig. 3 and the continued pull will withdraw the stove into the position shown in said figure. Of course when the stove is no longer to be used, the knobs or handles 18 are pushed inward and this operation will cause the damper 16 to swing into the position shown in Fig. 2 and will then slide the stove rearward within the housing 4 so that it will lie entirely within the wall and will not be in the way within the room.

A damper 20 is pivotally mounted within the upper opening 15 and when the stove is drawn out for use, the said damper will lie in the position shown in Fig. 3 with its rear edge resting upon the top of the stove at the rear side of the opening. When the stove is pushed into its inoperative position within the wall, the rear edge of this damper 20 will be carried into contact with the lower edge of a trip plate 21 secured in the opening 7 in the housing and will be thereby caused to swing upon its pivots so as to assume the position shown in Fig. 2, and thereby open the direct communication between the fire-place and the chimney. When



the damper 16 is drawn forward, it will rest against a vertical partition 22 near the front end of the stove and the space between the said partition and the front end of the stove may be utilized as a baking-oven, a door 23 being provided on one side of the stove to permit access to the said oven. The stove is also provided with openings 24 in its top which are utilized to hold kettles or other cooking utensils and may be closed by the ordinary stove lids when so desired.

To prevent the sagging of the stove and to relieve the strain upon the housing 4 and the box or casing of the stove, supporting legs 25 are secured to the corners of the face plate of box or casing 10 and engage the floor of the room, and thereby support the stove in its projected position, as will be readily understood.

When the stove is not drawn out, it will appear as shown in Fig. 2 with the damper 16 standing vertically so that there will be a direct draft up the chimney through the openings 7, 8, 14 and 15 from the fire-place. In this position, the temperature of the oven will be raised and baking or roasting may be accomplished therein. Should it be desired to withdraw the stove so as to boil water or perform other cooking operations thereon, a pull is exerted on the knobs or handles 18 and the damper 16 is consequently swung forward in which movement it will strike the lower end of the damper 20 and partly swing the same upon its pivots. The continued pull upon the knob or handles will then draw the damper 16 against the partition 22 and then pull the stove out into the room to the desired degree, the damper 20 being placed into the position shown in Fig. 3 by coming into contact with the front edge of the opening 7 in the housing 4 as will be readily understood. With the device arranged in this position the heat arising from the fire-place will pass through the openings 9, 8 and 11 into the space below the partition 13 and will be thereby deflected toward the front of the stove, as indicated by the arrows, striking against the damper 16 and being thereby turned backward over the partition 13 and finally escaping through the opening 12 into the chimney. The damper 20 in this position effectually prevents the escape of smoke or other products of combustion into the room, as will be readily understood. Pots and kettles placed upon the stove will be readily heated and the cooking may be conveniently accomplished.

Having thus described my invention what is claimed is:—

1. The combination of a fire-place, a tubular housing above the fire-place having openings for the passage of the products of

combustion from the fire-place, and a stove slidably mounted within the said housing and provided in its top and bottom with openings adapted to register with the openings in the housing, and means for directing the course of travel through the stove to the said openings.

2. The combination with a fire-place, of a slidable stove mounted in the upper portion thereof and provided with a plurality of openings in its top and bottom for the passage of products of combustion from the fire-place, and a damper within the stove arranged to permit the products of combustion to pass directly through the openings near the front end of the stove or to pass in a tortuous course through the openings at the rear end of the stove.

3. The combination of a fire-place, a stove slidably mounted in the upper portion of the fire-place and provided in its top and bottom at its rear end and near its front end with openings for the passage of the products of combustion from the fire-place, a horizontal partition extending from the rear end of the stove to a point near the forward openings therein, a damper adapted to swing to and from the end of the said partition, and means for operating the said damper.

4. The combination of a fire-place, a housing in the upper portion of the fire-place having openings in its top and bottom, a trip plate secured in the opening in the top of the housing, a stove slidably mounted in the housing and provided with sets of openings in its top and bottom adapted to register with the openings in the housing, and a damper pivotally mounted in the opening in the top of the stove near the front end of the same and adapted to engage the said trip plate.

5. The combination with a fireplace of a housing in the fireplace and having openings in its top and bottom, a stove slidably mounted in the said housing and provided in its top and bottom with sets of openings adapted to register with the openings in the housing, a trip plate in the opening in the top of the housing, a damper pivotally mounted in the forward opening in the top of the stove and adapted to engage the said trip plate when the stove is in its retracted position, and a damper mounted within the stove adjacent to the forward openings and adapted to actuate the first-mentioned damper to close the same.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOSEPH GRUBER.

Witnesses:

GUSTAVE SCHWARTZ,  
I. H. SCHWARTZ.