

(No Model.)

2 Sheets—Sheet 1.

S. J. PERRAULT & T. L. BAUER.
STOVE ATTACHMENT.

No. 573,793.

Patented Dec. 22, 1896.

Fig. 1

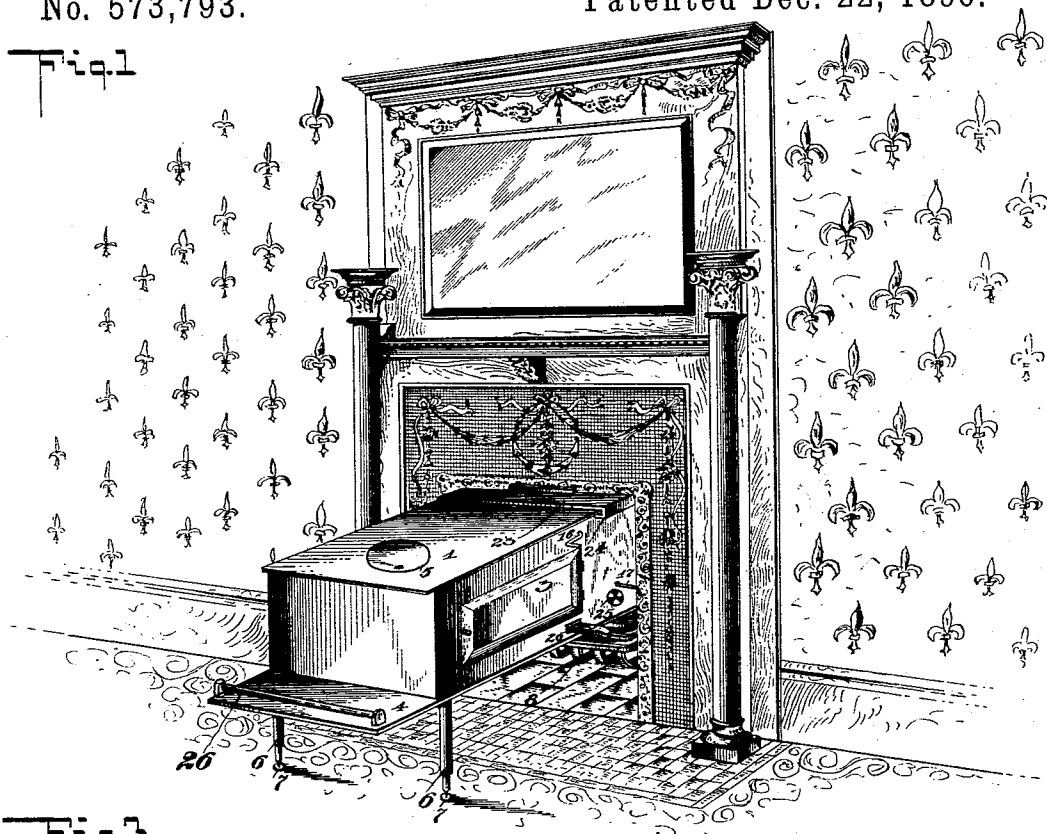
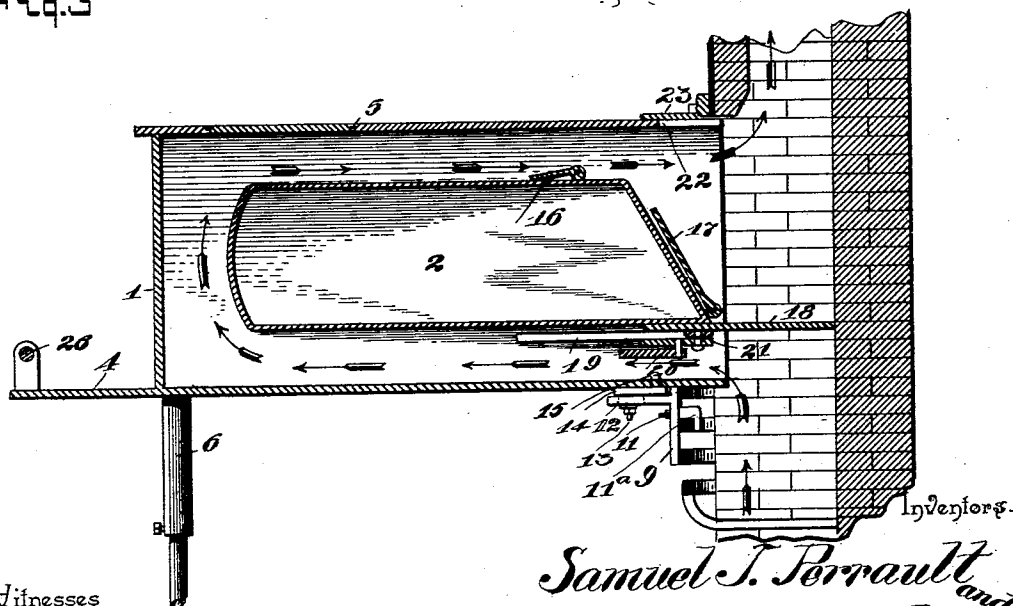


Fig. 3



Witnesses

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Samuel J. Perrault and
Theodore L. Bauer.
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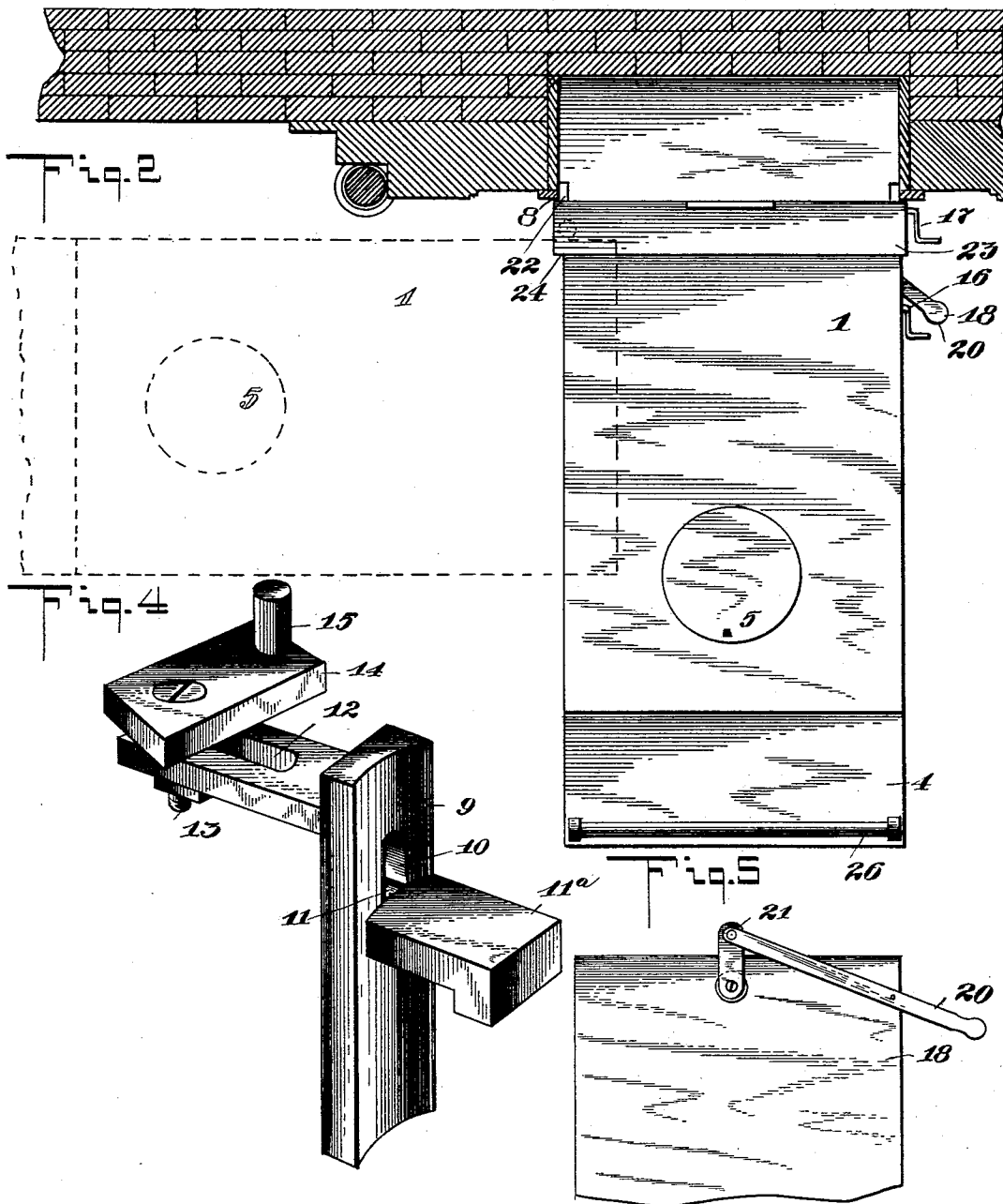
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2 Sheets—Sheet 2.

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Witnesses

Edmund A. Skans.
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UNITED STATES PATENT OFFICE.

SAMUEL J. PERRAULT AND THEODORE L. BAUER, OF NATCHEZ, MISSISSIPPI.

STOVE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 573,793, dated December 22, 1896.

Application filed June 12, 1896. Serial No. 595,319. (No model.)

To all whom it may concern:

Be it known that we, SAMUEL J. PERRAULT and THEODORE L. BAUER, citizens of the United States, residing at Natchez, in the county of Adams and State of Mississippi, have invented a new and useful Stove Attachment, of which the following is a specification.

This invention aims to provide an attachment to be used in connection with an open grate or fireplace-heater for the purpose of utilizing the heat to the best possible advantage for cooking and heating, the attachment being constructed so as to be turned aside and admit of access being readily had to the heater when the fire in the latter is to be started or built.

One of the principal objects in view is to construct the attachment so as to secure a circulation of hot air in the required direction, either for heating, baking, or cooking, in the ordinary way, and which will obviate fouling and a collection of soot and ashes, the device being readily accessible in all of its parts, so as to be easily cleaned, whereby its efficiency and usefulness are preserved in an eminent degree.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view showing the invention in operative relation. Fig. 2 is a top plan view showing the attachment in co-operative relation with the fireplace-heater by full lines and turned aside in dotted lines. Fig. 3 is a central longitudinal section of the attachment and heater, showing the direction of the hot air by arrows. Fig. 4 is a detail view of the adjustable pivotal connection between the attachment and the grate or heater. Fig. 5 is a detail view of the slidable damper and the means for operating it.

Corresponding and like parts are referred

to in the following description and indicated in the several views of the accompanying drawings by the same reference-characters.

The attachment in its general appearance resembles a stove or range, and comprises a case or box-shaped structure 1, which is open at its rear end and formed about centrally with an oven 2, which is accessible by means of a door 3, closing an opening in aside of the case. The bottom plate of the case is extended to the front, forming a rest or shelf 4, and the top is formed with an opening 5 contiguous to the front of the case, forming a stove-hole to receive cooking utensils, and this opening is adapted to be closed by a lid or cover in the usual way. The case is mounted upon adjustable legs 6, which are secured thereto in any convenient way, the legs being composed of parts or sections which are telescopically or otherwise connected together so as to admit of their lengthening and shortening to accommodate the elevation of the attachment to the height of the grate or heater. These legs 6 are mounted upon casters or rolling supports 7, which is essential so as to admit of the device being turned aside or brought into coöperative relation with the grate or heater 8.

The attachment has pivotal connection at one corner with a side of the grate or heater 8 and is adapted to be swung upon said pivotal connection when moving it to one side or bringing it into position when required for cooking or other purpose. The pivotal connection consists, essentially, of a bracket 9, having a slot 10 in its vertical member to receive a threaded stem 11 of an anchoring-block 11^a, by means of which the bracket is adjustable vertically with relation to the grate or heater. The horizontal member of the bracket has a slot 12, in which operates the bolt or fastening 13, by means of which a plate 14 has adjustable connection with the horizontal portion of the bracket, and this plate is formed at its free end with a vertical stud 15, which enters an opening in the bottom plate of the case and upon which the case or attachment turns when moving it toward or from an operative position.

The oven 2 is located about centrally within the case, so as to provide a space in the front, at the top and bottom, and the rear for

the circulation of the hot air. A damper 16 controls the passage or space formed between the top plate of the case and the upper plate of the oven, and is located about at the rear end of the oven. A damper 17 is provided and operates in the space at the rear of the oven, and is pivoted at its lower edge and is adapted to have its upper edge extend over the grate or heater, so as to direct the hot air into the space formed between the bottom plate of the case and the lower plate of the oven. A slidable damper 18 is located immediately below the oven and is supported upon cleats or ribs 19, and can be moved so as to extend over the grate or heater, so as to insure a circulation of the hot air beneath and around the oven. A lever 20 operates through an opening in a side of the case and is fulcrumed intermediate of its ends to the side through which it projects, and its inner end has pivotal connection with a link 21, which in turn is pivotally secured to the slidable damper. When operating the lever 20, the link 21 turns upon its pivotal connection with the slidable damper and allows for the arcuate movement of the inner end of the lever when projecting or withdrawing the slidable damper. The rear portion of the top plate is cut away, as shown at 22, to provide for replenishing the fire, and this cut-away portion 22 is closed by a slide-cover 23, which is held in place by having its recurved end portions 24 embracing the projecting edges of the top plate. Dampers 25 are located in the sides of the case adjacent to the lower rear corners and provide for the admission of cold air to moderate and temper the hot air passing through and circulating around the attachment.

The attachment is constructed to be fitted to any form of heater having an open front, and an important feature is to provide for the movement of the device upon a pivotal support toward and from the said heater, so that the latter may be accessible in the ordinary way when it is required to build the fire or clean out the fire pot or basket prior to starting a new fire. A hand-rail 26 is fitted to the front end of the rest or shelf 4 and affords a convenient means to be grasped when moving the attachment toward and from the heater. When it is required to use the attachment, it is turned upon its pivotal connection with the grate or heater, so as to bring its open rear end directly opposite to the said grate or heater, and by properly adjusting the slide-cover 23 and the various dampers 16, 17, or 18 the hot air will be caused to circulate beneath the oven, up in

front and over the top of the said oven, and out through the chimney or smoke-pipe connected with the grate or heater to which the attachment is fitted.

In the event of the heat being too great and it being required to moderate the same, one or both of the dampers 25 can be opened more or less, so as to admit sufficient cold air to effect the desired result.

Having thus described the invention, what is claimed as new is—

1. The combination with a grate or open-front heater, of a cooking attachment comprising a case having an open side, a bracket having adjustable connection with the grate or heater, a plate having pivotal connection with the attachment, and means for adjustably connecting the plate with the bracket, substantially as and for the purpose set forth.

2. The combination with a grate or open-front heater, of a cooking attachment, a vertically-adjustable pivotal connection between the attachment and the grate or heater, and adjustable legs supporting the attachment and provided with rolling supports, substantially in the manner set forth for the purpose described.

3. The combination with a grate or open-front heater, of an attachment comprising a case having an oven disposed so as to provide a communicating space at the rear, in the front, and above and below the oven, said case having the rear portion of its top plate cut away, a slide-cover for closing the said cut-away portion of the top plate, and a damper for controlling the circulation of hot air through the case and around the oven, substantially as set forth.

4. The combination with a grate or open-front heater, of an attachment comprising a case provided with an oven which is accessible by means of a door in a side of the case, and having a space entirely surrounding the oven and formed between the latter and the walls of the case, a damper at the lower rear corner of the oven to be projected across the grate or heater, and a cover for controlling an opening in the rear portion of the top plate of the case, substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

SAMUEL J. PERRAULT.
THEODORE L. BAUER.

Witnesses:

CHS. W. BABBIT,
THOS. K. WINCHESTER.