

(No Model.)

W. M. MILBURN.
AIR TIGHT HEATING STOVE.

No. 564,631.

Patented July 28, 1896.

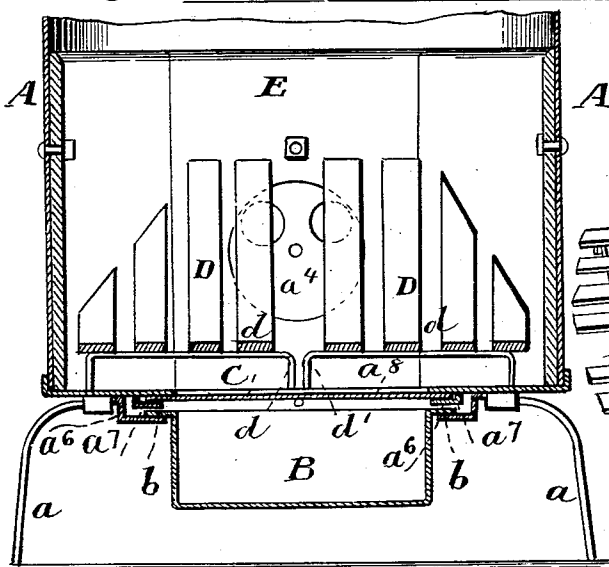
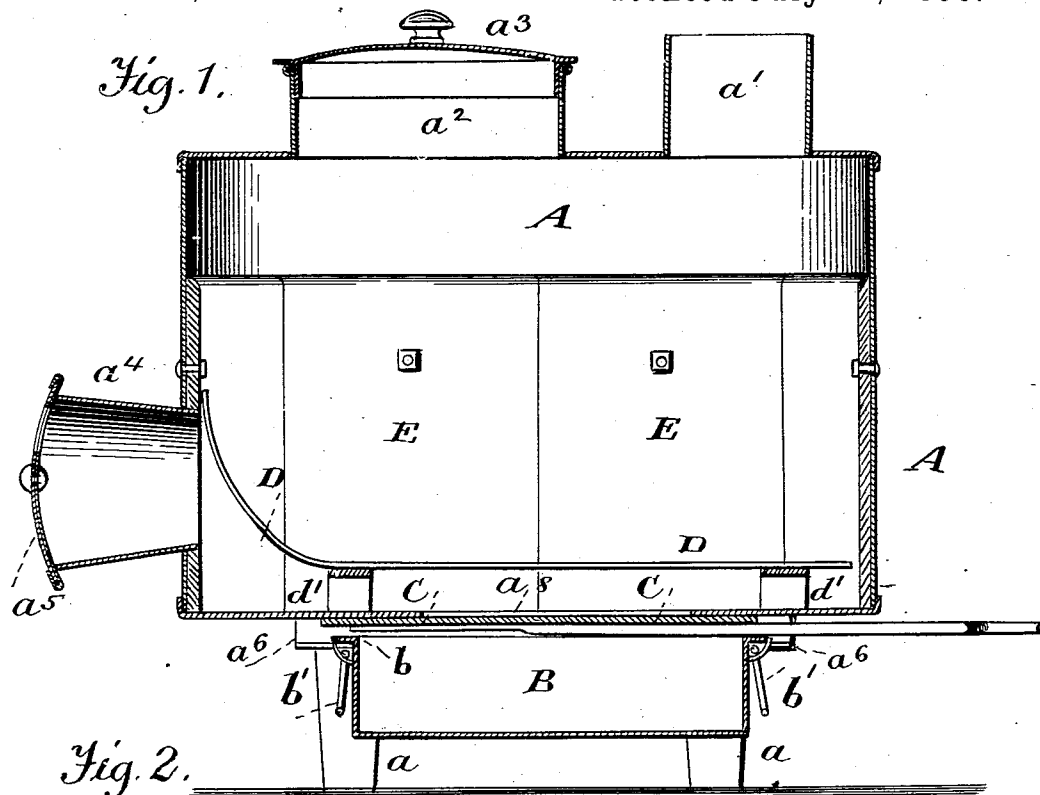
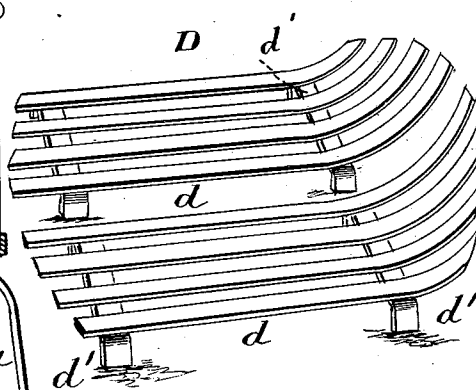


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM M. MILBURN, OF HARRISON, ARKANSAS.

AIR-TIGHT HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No. 564,631, dated July 28, 1896.

Application filed April 10, 1895. Serial No. 545,187. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM M. MILBURN, a citizen of the United States, residing at Harrison, in the county of Boone and State of Arkansas, have invented certain new and useful Improvements in Air-Tight Heating-Stoves; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The special object of the invention is to make a stove for heating purposes which shall be air-tight, the draft regulated in degree or shut off entirely, adapted for the use of coal or wood, and in which the grate is divided so as to be put in or taken out through a fuel hole or tube at the top. The ashes are received and removed in a box under the stove, an air-tight slide being arranged under a hole in the bottom of the stove.

Figure 1 of the drawings is a longitudinal sectional view of the stove; Fig. 2, a vertical cross-section, and Fig. 3 a detail perspective view of the grate.

In the drawings, A represents the horizontal body of the stove supported upon the legs *a*, which may be secured thereto in any preferred way. On top is the tube *a'*, which connects with the smoke-pipe and the tube *a''*, through which the fuel is fed to the fire, the tube *a''* being provided with an air-tight cover *a'''*. On the front and lower part of the stove the tube *a''* is formed for the purpose of receiving the damper *a'''*, which has holes to register with corresponding holes in the tube, the damper turning in guides to open or close the holes.

B is the ash-box having side flanges *b b* at top which slide in guides *a'' a''* on the under side of the stove, and pivoted rings *b' b'*, by which it may be handled, removed, or replaced, thus avoiding all liability to drop coals, dirt, or ashes, as occurs when it has to be cleaned out at the stove and the ashes removed in another vessel.

Above the ash-box, which is independent and under the stove only when needed to re-

ceive the ashes, I use an air-tight slide C, which is movable in guides *a'' a''* and may be taken out altogether, if desired, at any time when the ashes are to be removed. This slide forms an air-tight cover for the hole *a''* in the bottom of the stove, while over this hole is arranged the grate D to prevent the fuel from falling on the bottom of stove or on the slide C. I make this grate in two sections *d d* and provide each section with legs *d'* to support it upon the bottom of the stove. The sections are thus made independent of each other, can be easily put in or taken out through the fuel-tube *a''*, and may be quickly replaced separately if one is broken or burned out before the other.

The grate D consists of a number of parallel bars extending longitudinally and raised above the bottom of the stove-body. The major portion of said bars are horizontal and at their forward ends extend up above the draft-inlet *a''* and terminate in close proximity with the front of the stove-body.

When the ashes are to be removed, the slide C is withdrawn to let the ashes drop into the box B and be carried away therein.

E is the lining, which is made of cold-rolled steel for a wood-stove and of cast-iron for a coal-stove. It is made in sections secured on the inside by the bolts *e* and replaceable when burned out.

What I claim as new, and desire to protect by Letters Patent, is—

A stove having a horizontal body, a draft-inlet leading into the front of the body near the lower edge thereof, a smoke-outlet located in the body; a grate consisting of a number of parallel bars extending longitudinally and slightly raised above the bottom of the stove-body, the major portion of said bars being horizontal and at their forward ends extending up above the draft-inlet and terminating in close proximity with the front of the stove-body.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM M. MILBURN.

Witnesses:

W. F. MITCHELL,
A. WEATHERLY.