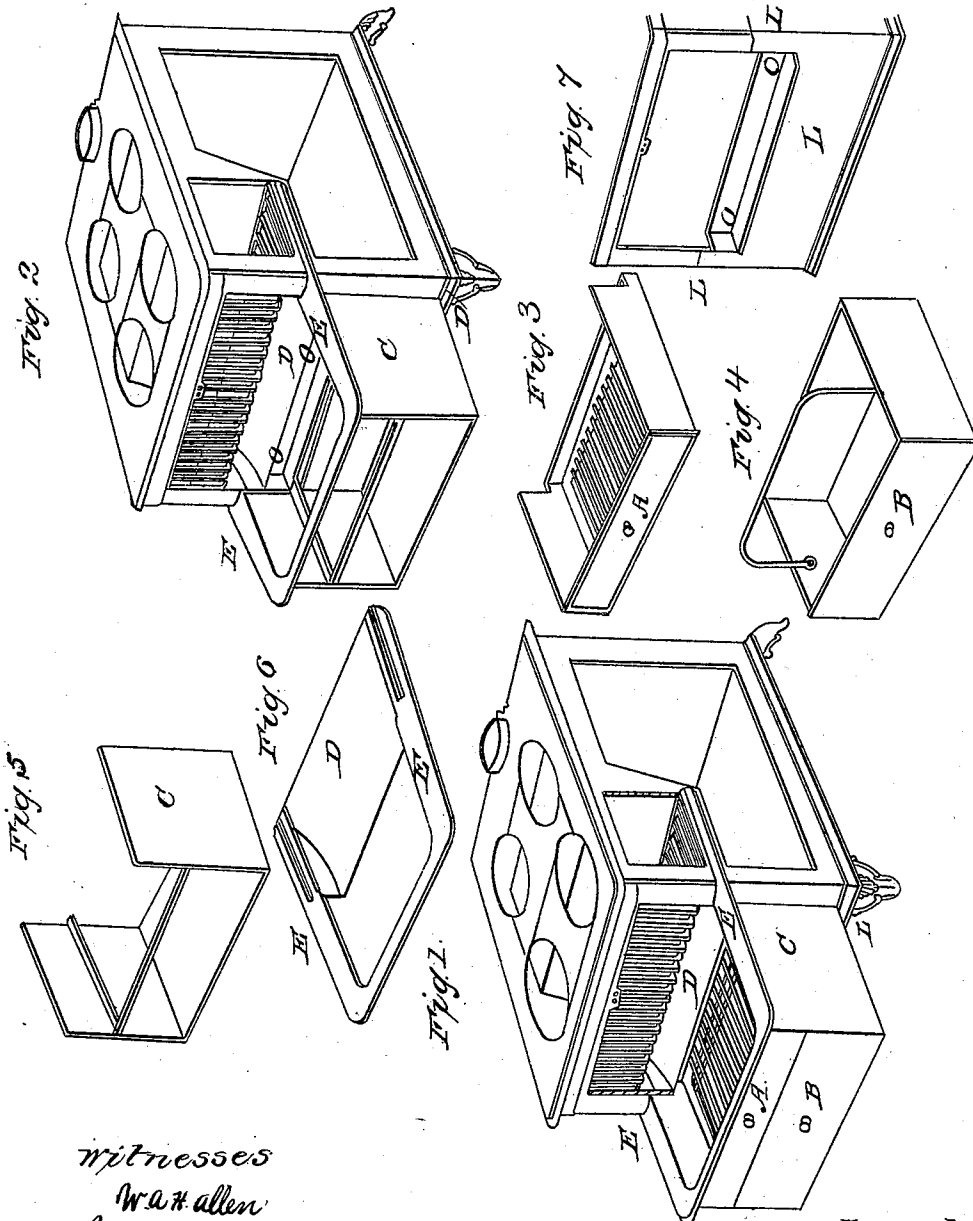


J. SPEAR.
Cooking Stove.

No. 31,489.

Patented Feb. 19, 1861.



witnesses
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UNITED STATES PATENT OFFICE.

JAMES SPEAR, OF PHILADELPHIA, PENNSYLVANIA.

COOKING STOVE AND RANGE.

Specification forming part of Letters Patent No. 31,489, dated February 19, 1861; Reissued October 9, 1866, Nos. 2,372, 2,373, and 2,374.

To all whom it may concern:

Be it known that I, JAMES SPEAR, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Cooking Stoves and Ranges; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is plan view of the stove containing the sifting pan and the ash drawer or reservoir, with the hearth plate and fire doors removed. Fig. 2, is a perspective view with the sifting pan and ash drawer removed; Fig. 3, the sifting pan; Fig. 4, the ash drawer or reservoir; Fig. 5, the box or receptacle for the sifting pan and the ash drawer; Fig. 6, the hearth plate of the stove with the curved or guide plate D attached; Fig. 7, the front plate of the stove with the hearth plate and box or frame C removed.

The nature of my invention consists in providing a cooking stove or range with a sifting pan in the hearth in order to sift the ashes as it is raked from the grate or fire chamber, and also in placing a large drawer or reservoir under the sifting pan in order to contain the sifted ashes, and also in so constructing the hearth of a stove or range as to enable those using it to remove both the sifted coal and ashes or either of them from the hearth of the stove or range without the use of a shovel; thus avoiding all the dust and dirt attending the removal of the ashes in an ordinary stove or range.

It is a well known fact to all persons using cooking stoves and ranges that there is a great deal of trouble and annoyance from dust attending the removal of the ashes from the ordinary stove or range, and in all cases it has to be removed by means of a shovel from the hearth to a bucket or other vessel in order to be conveyed from the stove or range. At the same time both the ashes and unburned coal are removed together, which requires to be sifted otherwise a large quantity of fuel is wasted during a year. To prevent this evil I have constructed the hearth of a cooking stove or range with a sifting pan A by which means the ashes are sifted and fall into a large ash drawer B, placed under the sifting pan A,

as will be seen in Fig. 1. In order to accomplish this I have attached a box or frame C to the under side of the hearth E of the stove on a line with the bottom plate L, as will be seen in Fig. 2, so that either pan with its contents may be removed without the other.

To enable others skilled in the arts to make and use my invention I will proceed to describe more fully its construction and operation. Take any of the well known large oven flat top cooking stoves with the elevated hearth, viz., the Sea Shell cook stove, the Continental cook stove, the William Penn cooking stove, the New World cooking stove, the Prairie Flower, the Conquest, or any of that class of cooking stoves, and remove the bottom of the hearth or ash pit, and in place thereof attach a box or frame C, Fig. 5, to the under side of the hearth as is shown in Figs. 1 and 2—extending the curved or guide plate D of the hearth plate so that it will overlap the end of the sifting pan A forming a recess O, O, under the guide plate D for the end of the sifting pan A as is shown in Fig. 2.

In Fig. 3 the bottom of the sifting pan is made of bars and may be made either of wrought or cast iron.

In Fig. 4 the ash drawer or reservoir is made of sheet iron of suitable thickness and is supplied with a bail for greater ease in removing it from the stove when filled.

Fig. 6, is the hearth of the stove showing the curved or guide plate attached.

Fig. 7 shows the front plate of the stove with the hearth plate E and box C removed, showing the recess for the end of the sifting pan A.

I am well aware that grates have been used in stoves and ranges for the purpose of sifting the ashes but this simply I do not claim; but

What I do claim and wish to secure by Letters Patent is—

The combination of the sifting and ash drawers A and B with the curved or guide plate D when used in connection with a stove or range in which the oven extends under the fire grate.

JAMES SPEAR.

Witnesses:

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