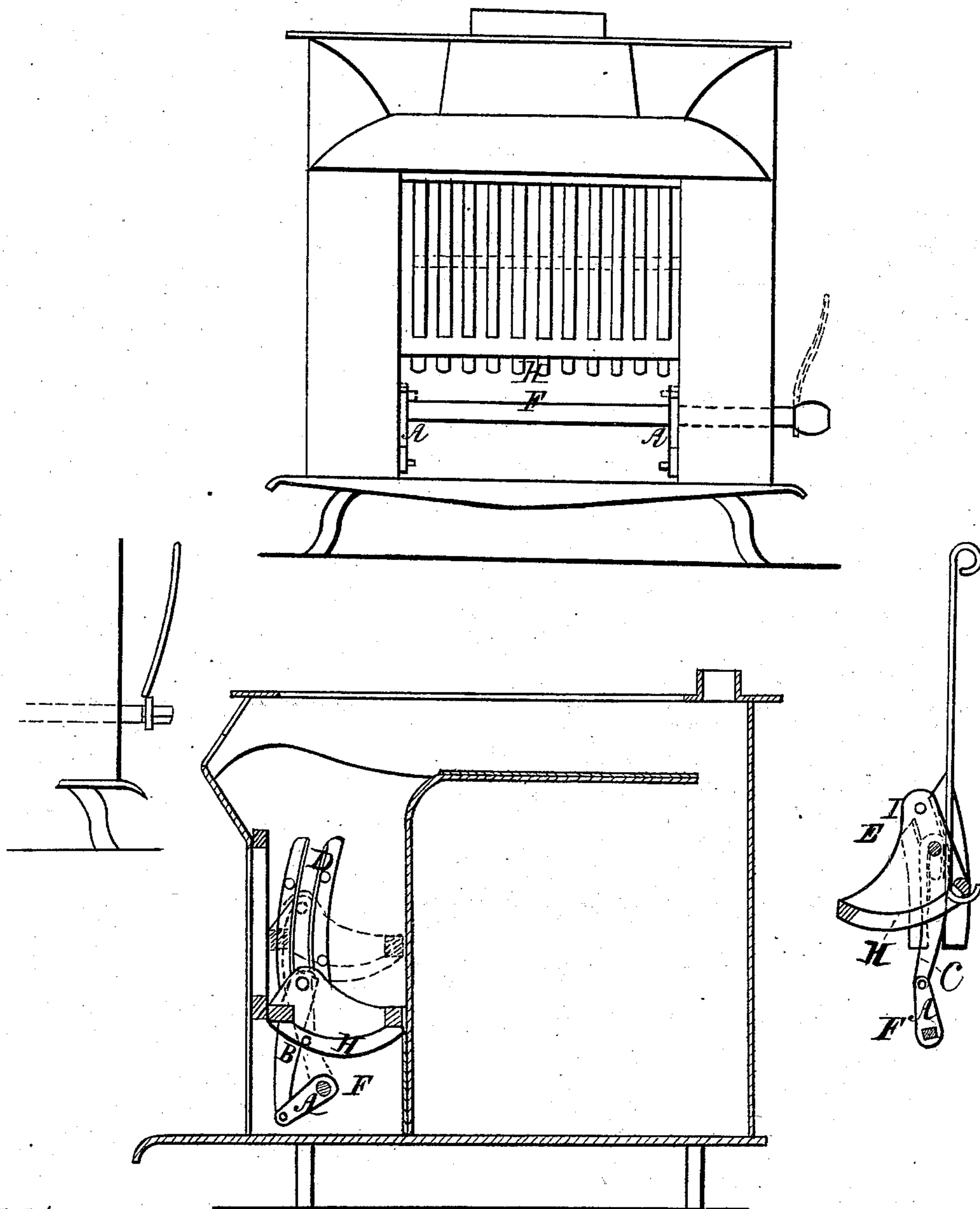


G. STOWE.
Stove Grate.

No. 79,873.

Patented July 14, 1868



Witnesses;
Calvin Stow
Henry Stowe

Inventor;
George Stowe

United States Patent Office.

GEORGE STOWE, OF BRACEVILLE, OHIO.

Letters Patent No. 79,873, dated July 14, 1868.

HOISTING-GRATE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE STOWE, of Braceville, in the county of Trumbull, in the State of Ohio, have invented a new and useful Arrangement of Stove-Grate; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in providing coal-stoves with machinery by which the bottom of the fire-grate can be raised up or let down at pleasure.

The bottom grate H is hung on trunnions at the ends, and supported, raised, and lowered by supporting-bars B and C, which have holes in their upper ends, through which the trunnions pass.

The supporting-bars B and C are connected by pivots or pins with the arms A A of a shaft, F, in such a manner that, in turning the shaft F, the grate H is thrown up or down.

The trunnions of the grate H have sufficient length to extend through the supporting-bars B C, into grooves D and E, in the ends of the fire-box.

The grate H is also provided with a guide or nib, I, which extends into the groove E, so that the grooves may control the position of the grate H in its movements up and down.

The supporting-bar C is slotted in the hole so as to give the trunnion play, and allow that end of the grate H to be hoisted; the back side of the groove E also is lower, so that when it is desired to dump the grate H, a hook, provided for the purpose, may be caught in the edge of the grate, and the nib I be raised out of the groove E, when the grate will turn over, the nib I passing out over the lower and rear side of the groove E. The grate H is returned to its proper position in the same manner.

To remove ashes from the grate, it is only necessary to shake it up and down with the wrench on the shaft F.

I claim—

1. The supporting-bars B and C, constructed with a slot, and operating substantially as described and specified.
2. The grooves D and E, in the ends of the fire-box, constructed and operating as herein described.
3. The bottom grate H, provided with a nib or guide, I, or its equivalent, for the purpose of guiding the grate, and constructed and so arranged as to be hoisted and dumped, substantially as shown and described.

GEORGE STOWE.

Witnesses:

DANIEL EARLE,
CALVIN STOWE.