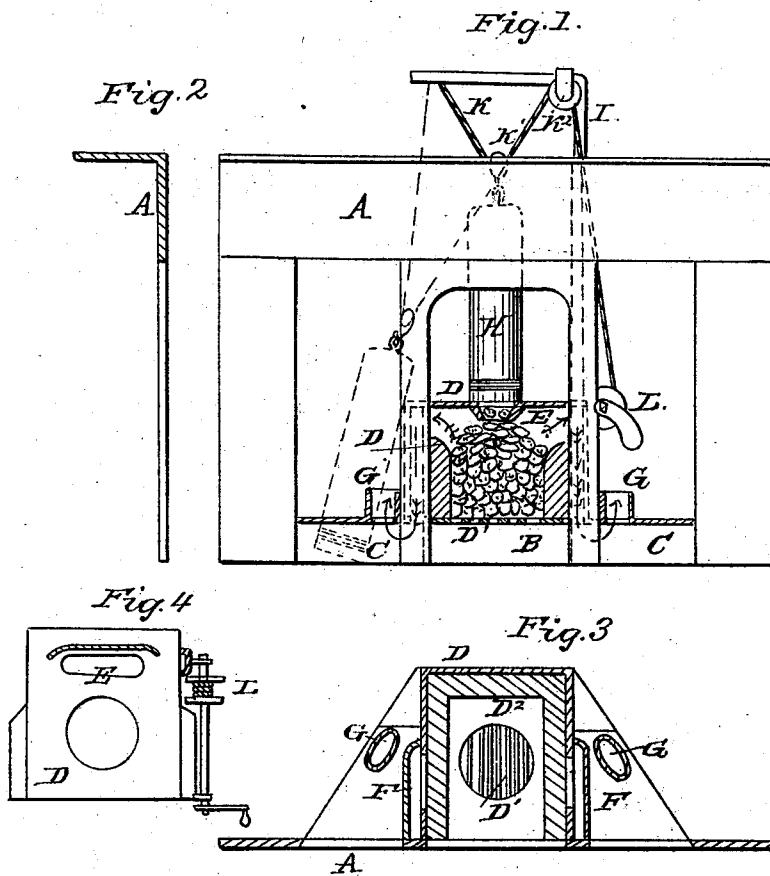


B. NOTT.
Base Burning Stove.

No. 106,609.

Patented Aug. 23, 1870.



WITNESSES
Chas. Naughton
Howard Nott

INVENTOR
Benjamin Nott

UNITED STATES PATENT OFFICE.

BENJAMIN NOTT, OF ALBANY, NEW YORK.

BASE-BURNING STOVE.

Specification forming part of Letters Patent No. 106,609, dated August 23, 1870.

To all whom it may concern:

Be it known that I, BENJAMIN NOTT, of the city of Albany, in the county of Albany, and in the State of New York, have invented an Improved Self-Feeding Stove; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a front elevation, showing portions of the stove in section. Fig. 2 is a transverse section of the mantel-piece. Fig. 3 is a horizontal section of the stove and mantel-piece. Fig. 4 is a plan view of a detached part of the stove, showing the windlass for raising and lowering the fuel-magazine.

The same letters are used in all the figures to indicate identical parts.

This invention relates to stoves, ranges, &c.; and my improvements consist in a novel mode of supplying the same with fuel by means of a comparatively large magazine, which is suspended over such stove or range from a frame by a chain or cord, and is raised and lowered by a windlass through the medium of such chain or cord, as will be more specifically explained in the subjoined description and claims.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

To illustrate my invention I have shown it in connection with a stove arranged in a recessed fire-place, for which class of stoves or other heating apparatus it is more especially designed, though it may be applied with good effect to stoves differently arranged.

In the annexed drawings, A represents a mantel-piece, which bounds the opening of the recess formed in the chimney for the reception of the stove, and may be constructed as shown, or in any other suitable manner.

The recess, though covered by the front wall of the chimney down to the mantel-piece, is to be made of the required height to accommodate the fuel-magazine and the frame from which it is suspended.

The base of the stove may be formed to fit the recess in the chimney. It is divided into three compartments, the central one (marked B) forming the ash-pit, with one upon each side, indicated by C C, which constitute horizontal flues, through which the gaseous products of combustion are drawn in their pas-

sage to the exit-pipes G G. These open into said flues near the back of the stove, so as to leave a sufficient space for the easy introduction and removal of the fuel-magazine.

D represents the main body of the stove, rising from the base and covering an area about equal in size to that of the ash-pit. It is provided with the usual grate, D', and may be lined with fire-brick D² around that portion where the heat is most intense.

Near the back, by preference, the top plate has a suitable aperture, E, through which the fuel is fed from the magazine into the combustion-chamber. Upon each side a flue, F, opening into the combustion-chamber near the top and extending down the sides of the main body D, communicates with its respective horizontal flue. Suitable dampers are to be arranged in these flues to control the combustion of the fuel.

The fuel-magazine H is of comparatively large size, so as to obviate the necessity of frequent replenishment of the same. Its lower open end is formed to neatly fit the aperture E in the top plate of the stove, and is provided with a slide by which to regulate the amount of fuel fed to the stove.

The magazine has an eyebolt secured to its upper end, and is suspended from the horizontal beam of a frame, I, by a chain or cord, K, to which it is attached by a traveling pulley-block, K'.

The frame I may be mounted on the stove, as shown, or secured to the walls. Its horizontal arm extends beyond a vertical line drawn from the side of the body D of the stove, and near the outer end of this arm the chain K is permanently fastened, passing thence under the sheave of the traveling block K', and over a stationary pulley, K², down to the drum of a windlass, L, to which its other end is fastened.

The shaft of the windlass, which is arranged at a convenient height in the recess, projects a short distance beyond the mantel-piece to receive a winch for turning it to wind the chain on or off the drum, for the purpose of hoisting the magazine into position, or lowering it for removal and replenishment, which is done at the coal-bin.

The windlass may be provided with the usual ratchet-wheel and pawl, to station the drum so that the weight of the loaded magazine shall be supported upon the chain, and not press upon the top of the stove.

It will be observed that, by the provision of the traveling block, intermediate between the magazine and the chain, the introduction and removal of the former is much facilitated.

I do not intend to confine the apparatus for removing and replacing the fuel-magazine to stoves of the particular construction herein described, or any other, as it may be applied with equal advantage to grates, ranges, &c.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In combination with a stove, range, or grate, a fuel-magazine suspended above the same by a chain or cord, and a windlass for

raising and lowering such magazine through the medium of said chain or cord, substantially as set forth.

2. The combination and arrangement of a stove fuel-magazine, H, traveling pulley-block K', chain or cord K, sheave K², frame I, and windlass L, substantially as set forth.

The above specification signed by me this 17th day of May, 1870.

BENJAMIN NOTT.

Witnesses:

THOMAS HOUGHTON,
HOWARD NOTT.