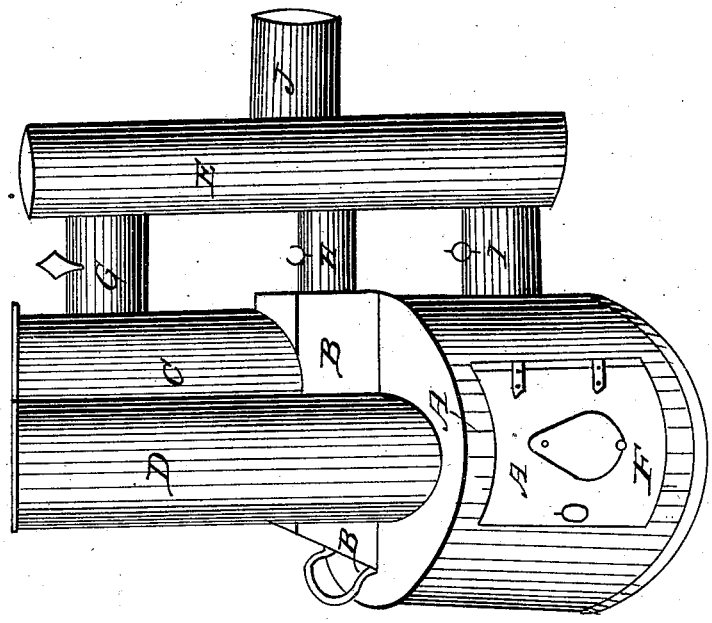
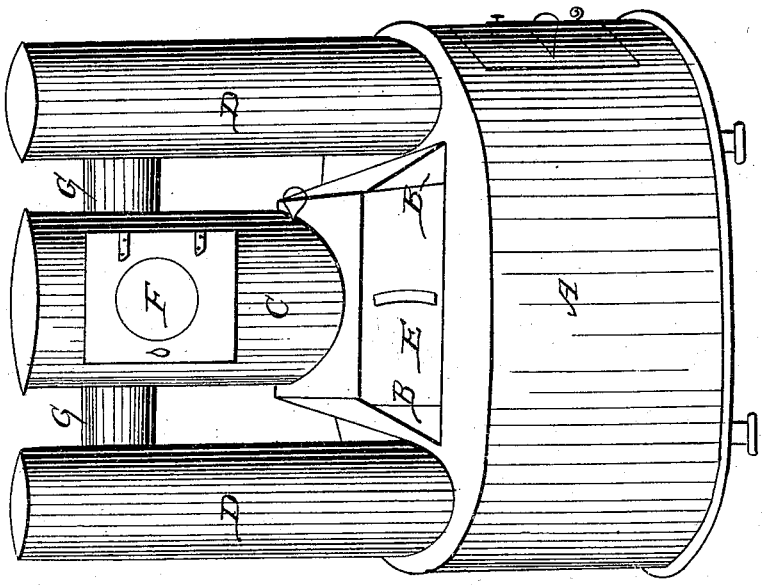
HARTSHORN, PAYSON & RING.

Heating Stove.

No. 4,732. Patented Sept. 3, 1846.





UNITED STATES PATENT OFFICE.

O. S. HARTSHORN, H. M. PAYSON, AND AARON RING, OF PORTLAND, MAINE.

COMBINED STOVE.

Specification of Letters Patent No.4,732, dated September 3, 1846.

To all whom it may concern:

Be it known that we, OLIVER S. HARTSHORN, HENRY M. PAYSON, and AARON RING, of Portland, in the county of Cumberland and State of Maine, have invented a new and improved method of constructing, arranging, and building stoves for warming rooms with wood or coal or by use of both at the same time, which we verily believe has not been known or used prior to the use and invention thereof by your petitionrs, and that we declare the following specification to be a full and exact explanation of the same, to wit:

The bottom part of this stove is the common oval sheet iron wood stove of any desirable dimensions. The funnel or draft is at the backside leading into a radiator and from the radiator into the chimney.

The ash pit of the coal stove is placed on the top of the wood stove and secured there in any proper manner with an opening in front for the ash pan and a round hole on the top, with a flange around it onto which the coal cylinder shuts close.

The coal cylinder is of any proper dimension and lined on the inside when made of sheet iron, or cast iron without a lining and stands on the ash pit. On the back side near the top a funnel leads off into the back radiator having a damper or throttle valve to regulate the draft. This stove has a grate at the bottom in the common form.

A sheet iron radiator stands on each side of the coal stove and on the top of the wood stove. Two holes are made in the top of the wood stove one on each side of the coal cylinder each having a flange around it onto which the radiators shut. A funnel leads from the coal cylinder near the top into each radiator.

A radiator is placed on the back of the stove into which the funnels from the wood stove, ash pit, and coal stove lead and each of these funnels has a damper or throttle valve to regulate the draft. A funnel leads from the back radiator into the chimney.

The coal cylinder and radiators are closed tight at top.

The advantages of this stove over all others are these: It can be used for coal or wood, each separate, or both together. When both are used the draft from the wood stove may be closed when the smoke and gas will ascend the two side radiators and pass over the coal fire where the smoke and gas will ignite and very much increase the quantity of heat, and if the draft from the coal cylinder should be closed and the draft from the ash pit opened the effect would be stronger. Again, if the draft from the coal cylinder should be closed and the draft from the wood stove opened and the ash pit door be opened enough to let in the draft, then the smoke and gas from the coal fire will pass down the two radiators into the wood stove and that smoke and gas will ignite over the wood fire and very much increase the heat. And these are the great advantages of this stove, the combination of the coal cylinder and the wood stove as above stated and the separate or united uses of them according to convenience, profit or fancy.

The parts of this stove which we claim as our own invention, and wish to secure by the patent to be issued on these specifications and the drawings accompanying, are—

The combination of the common wood stove and cylinder coal stove in the manner above described; so that coal may be burned alone and the draft so arranged as above specified as at the same time to heat the wood stove, with the same heat, and if wood alone should be burned, then the draft may be so managed and arranged, as above specified, as, at the same time to heat the side radiators and coal cylinder, and in this case the draft may go from the coal cylinder, through the funnel at the top, or that funnel may be closed, and the front of the ash pit closed and the funnel from the ash pit opened which will give much more heat than to carry the draft off at the top of the coal funnel.

In testimony that the foregoing specifications are a full and exact description of our said stove and the manner of its operation and the applications which we claim as improvements and as our own invention we have hereunto set our hands this twenty ninth day of April in the year of our Lord one thousand eight hundred and forty six.

O. S. HARTSHORN.
H. M. PAYSON.
AARON RING.

In presence of—
SEWALL C. CHASE,
JONATHAN MORGAN.