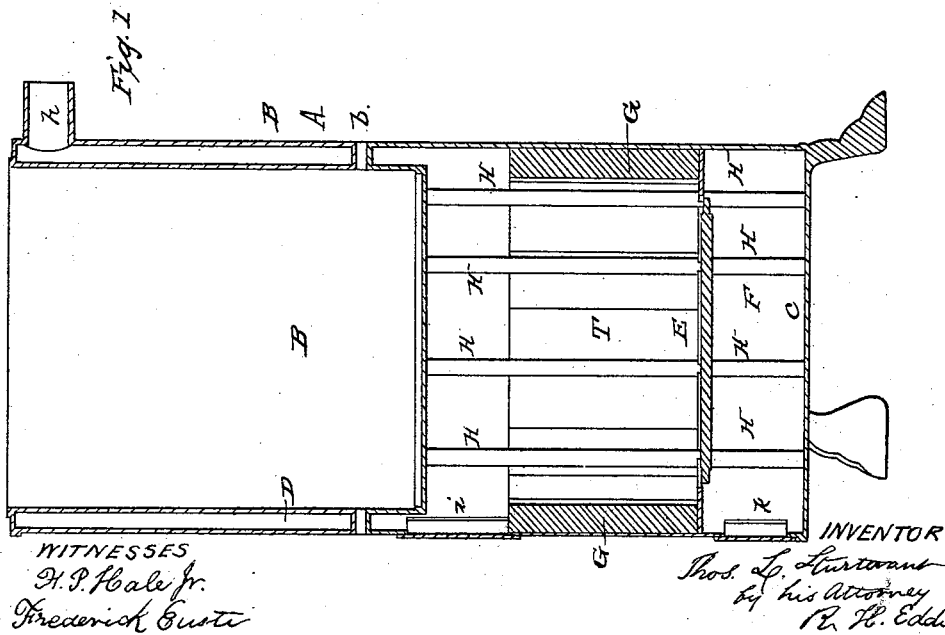
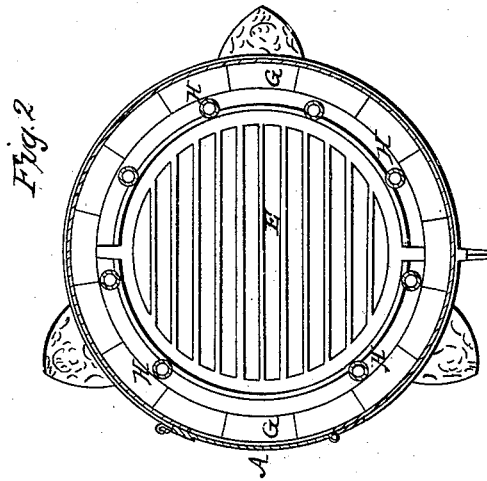


T. L. STURTEVANT.

Coal Stove.

No. 48,738.

Patented July 11, 1865.



# UNITED STATES PATENT OFFICE.

THOS. L. STURTEVANT, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN COAL-STOVES.

Specification forming part of Letters Patent No. 48,738, dated July 11, 1865.

*To all whom it may concern:*

Be it known that I, THOMAS L. STURTEVANT, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Stove; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 exhibits a vertical section, and Fig. 2 a horizontal section, of it.

In the construction of the said stove, its body A is a cylinder, provided with an inner radiator or cylindrical pot, B, which not only extends down into the body, but has a smoke-space, D, encompassing it, and arranged between it and the body, and covered at top. The radiator is open at its upper and closed at its lower end, and near the latter it has a series of small air-pipes, *b b b*, leading from it through the said smoke-space D and to the cylinder A, and so as to open through the latter and convey air into the radiator and give support to the latter. There is a grate, E, and an ash-chamber, F, arranged at the lower part of the body A, the fire-place or fuel-space T above the grate having a soapstone or fire-proof lining, G. A series of pipes, H H, each of which opens through the bottom *c* of the stove, is led up through the fire-place and against the inner surface of the fire-proof lining thereof, and to and so that such pipe shall open through the bottom of the radiator.

These pipes H H not only serve to convey air into the radiator, but to hold the lining in place and protect it more or less from the fuel. Besides this, they abstract heat from the fuel when in combustion, and radiate such heat into the air when flowing through them. There is an eduction-pipe, *h*, leading out of the upper part of the smoke-space D; and, furthermore, both the fire-place and the ash-pit should have the several mouths or openings *i k* provided with doors, such openings being for the admission of air and fuel to the fire-place, as well as for the removal of the coal and ashes from the stove, as circumstances may require.

I claim—

1. The improved stove as constructed not only with the radiator B and smoke-space D about the same, arranged with the fire-place T and ash-pit F, as specified, but as provided with a series of air-pipes, H H H, leading into the radiator and going through the fire-place, and with respect to the fire-proof lining thereof, substantially as specified.

2. In combination with the stove so made, the series of lateral air-pipes *b b b*, leading out of the lower part of the ventilator and opening through the sides of the case, as specified.

T. L. STURTEVANT.

Witnesses:

R. H. EDDY,  
F. P. HALE, Jr.