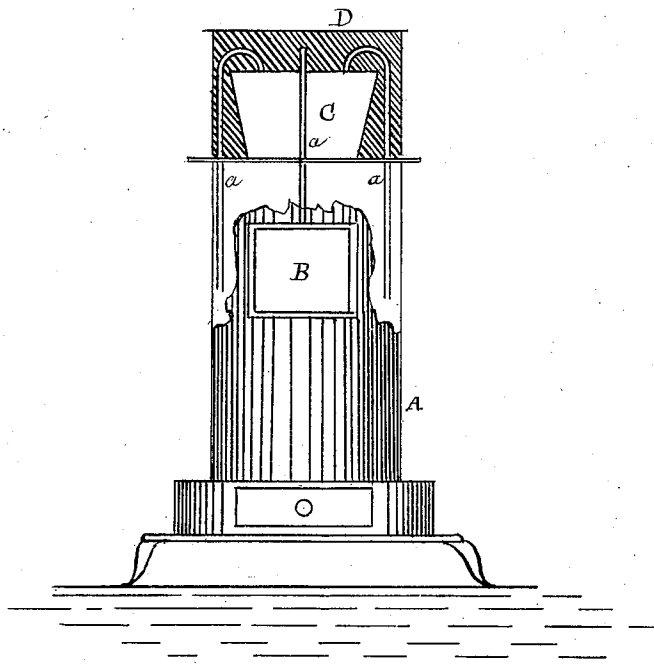


ELIZA D. HUNT.

Coal-Stove.

No. 132,083.

Patented Oct. 8, 1872.



Witnesses

C. Rogers

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per her atty

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UNITED STATES PATENT OFFICE.

ELIZA D. HUNT, OF NEW YORK, N. Y.

IMPROVEMENT IN COAL-STOVES.

Specification forming part of Letters Patent No. 132,083, dated October 8, 1872.

To all whom it may concern:

Be it known that I, ELIZA D. HUNT, of the city, county, and State of New York, have invented a new and useful Device for Decomposing Gases in Coal-Stoves; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of my invention consists in the employment of a water-vessel made to fit the top of a stove of any design, the said vessel being provided with a tight cover, through which are inserted pipes that extend downward into the fire-chamber. Over this water-vessel is a cap or cover, made to fit so as to cover the said water-vessel and inclose the same within the fire-box. The whole apparatus is detachable, so that it may be readily removed and replaced, as may be desired.

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

The figure represents a common cylinder-stove with my invention applied.

A represents a common cylinder-stove with the upper portion broken out so as to show more clearly the arrangement of my invention. B may represent the door of the stove. C represents the water-vessel, made tapering; or it may be made of equal dimensions from top to bottom, and of any suitable material, so as to hold water. To this water-vessel C is fitted a cover as tight as may be, but not necessarily steam-tight, especially when under pressure. *a a a* represent small tubes or pipes that lead from the inner side of the wa-

ter-vessel through the cover downward into the fire-chamber. D is a cap or cover, made the same size of the cylinder of the stove, that sits loosely over the top of the stove so that it brings the vessel within the fire-chamber.

My invention can be applied to any kind of stove, and has for its object the decomposition of the gases arising from burning coal of any kind and escaping into the room and poisoning the inmates thereof.

I may here state that my invention may readily be applied or attached to the common cooking-stove or range by taking a short cylinder or pipe—say six or eight inches in length—a little larger than one of the holes on the top of the stove, and on it place the vessel of water and pipes, as before described. The result is, that as steam or vapor arises from the vessel it is conducted down through the tubes into the fire-chamber and mingles with the gases generated from the coal, and, to a great extent, decomposes them so that no injurious effects are produced from them.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The water-vessel C, tubes or pipes *a a a*, in combination with the cap or cover D; substantially as herein shown and described.

2. The stove A, in combination with the pipes *a a a*, water-vessel C, and cap D, substantially as and for the purposes set forth.

ELIZA D. HUNT.

Witnesses:

F. W. HUNT,

CHARLES ROGERS.