

E. M. DEEY.

Heating Stoves.

No. 133,928.

Patented Dec. 17, 1872.

Fig. 1.

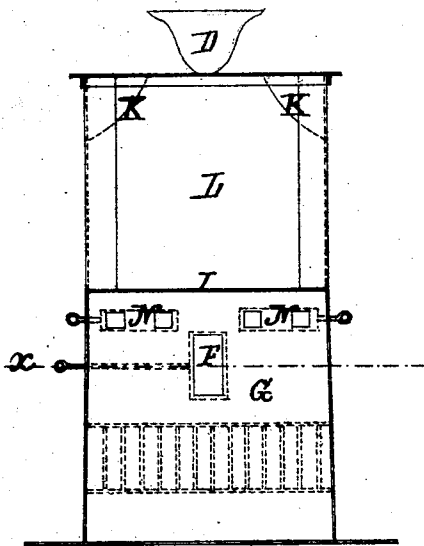


Fig. 2.

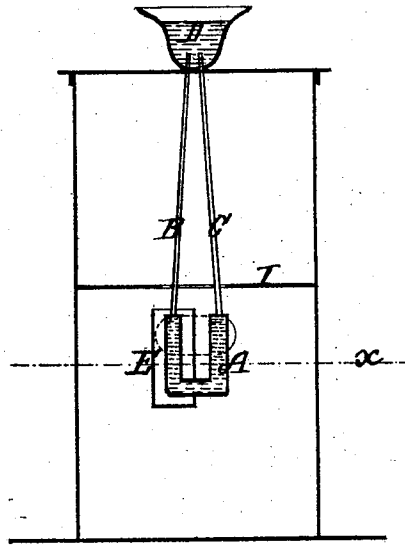


Fig. 3.

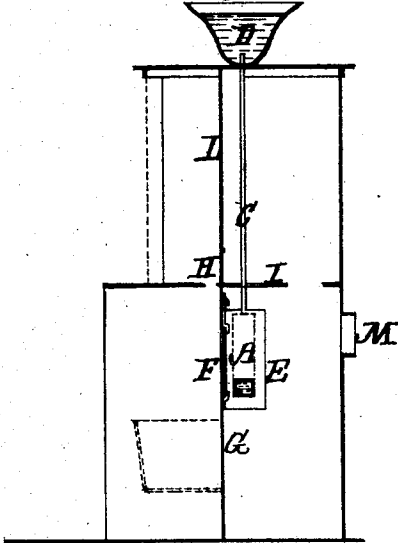
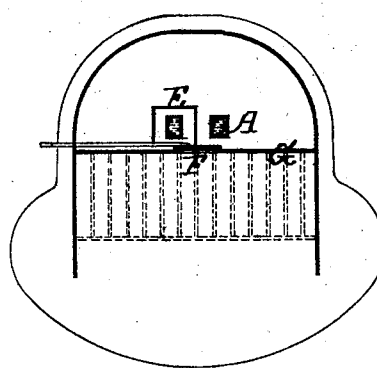


Fig. 4.



Witnesses:

Arthur. Veale
Charles Solomon

Inventor:

Edward Mortimer Deey

UNITED STATES PATENT OFFICE.

EDWARD M. DEEY, OF NEW YORK, N. Y.

IMPROVEMENT IN HEATING-STOVES.

Specification forming part of Letters Patent No. 133,928, dated December 17, 1872.

To all whom it may concern:

Be it known that I, EDWARD MORTIMER DEEY, of the city, county, and State of New York, have invented certain Improvements in Heating-Stoves, of which the following is a specification:

Figure 1 is a front elevation; Fig. 2, a vertical section; Fig. 3, a transverse and vertical section; and Fig. 4, a section on line *x x*.

This stove is an improvement on the one for which I obtained a patent February 21, 1871, No. 111,914, and differs from that in its water-back, pipes, and dampers; that being intended to heat several rooms, this only one room.

In this invention the water-back A is a cast-iron tube, in form like the letter U, which is placed directly in rear of the fire-back, and having two pipes, B C, extending upward to the urn D, or they may extend to a reservoir and steam-exhaust. One of the legs of the water-back is protected by a shield, E, while the other leg is heated by the fire through aperture regulated by the damper F in the fire-back G. In the leg of the water-back exposed to the fire, the water is heated and ascends to the urn, while in the leg protected by the shield the water, being cooler, descends, thereby causing the water to circulate which would, in the event of both legs being heated

at the same time be driven out. H is a passage made through the plate I of the stove, through which all or the surplus hot air may be made to pass up and through apertures K K, in the partition L, and thence down to the discharge-pipe M, by closing the dampers N N and F; thus forming a revertible flue. In connection with this partition L there may be a similar partition, both being united by an arch at the top, over which the hot air would pass to the discharge-pipe; the hollow space formed by the partitions being open on the sides of the stove, or provided with registers, or doors with registers, and used as an oven or radiator, as may be desired; and there may be a register at the base for supplying the stove with cold air and diminishing the draft.

What I claim is—

The water-back A, water-pipes B C, shield E, dampers N, N, and F, partition L, and apertures K K, all combined, arranged, and operating substantially as and for the purposes set forth.

In testimony whereof I have hereunto set my signature this 10th day of October, 1872.

EDWARD MORTIMER DEEY.

Witnesses:

ARTHUR NEILL,
MOSES SOLOMON.