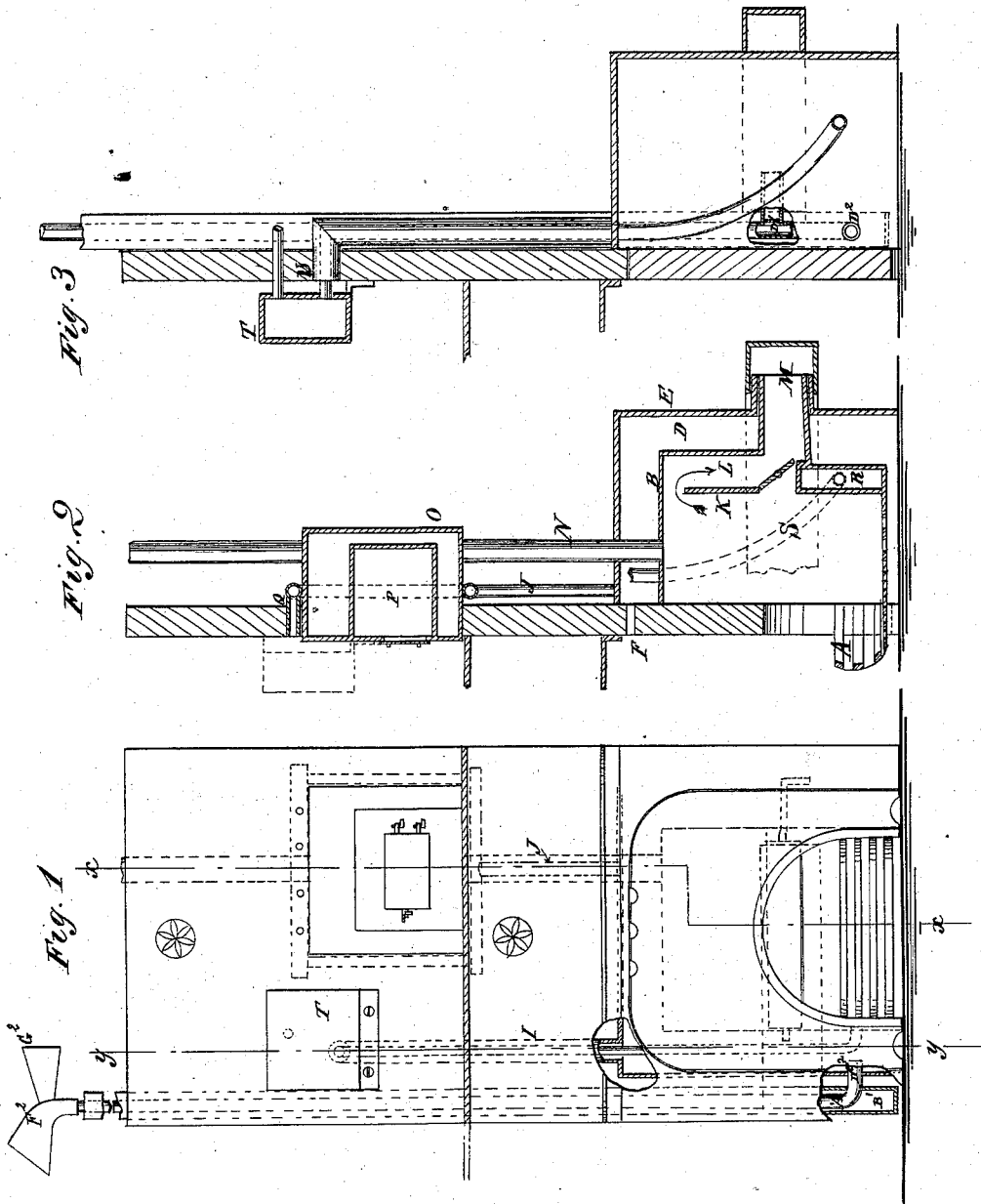


E. M. DEEY.
Fire-Place.

No. 163,053.

Patented May 11, 1875.



WITNESSES:

A. W. Almqvist
Alex. F. Roberts

INVENTOR:

E. M. Deey
BY *Wm. H. Deery*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

E. MORTIMER DEEY, OF NEW YORK, N. Y.

IMPROVEMENT IN FIRE-PLACES.

Specification forming part of Letters Patent No. **163,053**, dated May 11, 1875; application filed August 29, 1874.

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 a new and Improved Fire-Place Heater, of which the following is a specification :

The invention will first be fully described, and then pointed out in the claim.

Figure 1 is a front elevation of my improved heater with some parts sectioned. Fig. 2 is a sectional elevation taken on the line *xx* of Fig. 1. Fig. 3 is a sectional elevation taken on the line *yy* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents an open fire-grate; B, the surrounding smoke-box, and D the air-space, having jacket E, the air being conveyed through passages F Q and pipe I or J. L is a revertible flue, having passages M and N, a pipe connecting with smoke-box O, in which is an oven, P. I place a water-back, R, in the

grate, and arrange from it a steam or water pipe, S, extending along through the hot-air pipe I, into a steam drum or radiator, T, in the room, and from said radiator back into the flue, to increase its draft by the escape steam. The hot-air tube surrounding the steam-pipe extends from the hot-air chamber, and discharges into the room through a register, U, in front of which the steam-radiator creates a vacuum, and thus accelerates the discharge of hot air from the heater.

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

The combination, with fire-place grate, of the water-chamber R, pipe S, hot-air pipe I, and drum T, as and for the purpose specified.

E. MORTIMER DEEY.

Witnesses:

A. P. THAYER,
A. F. ROBERTS.