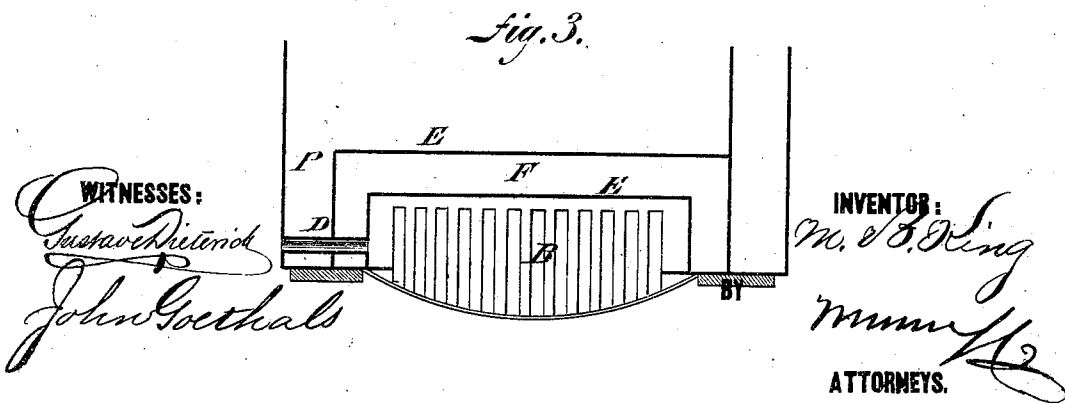
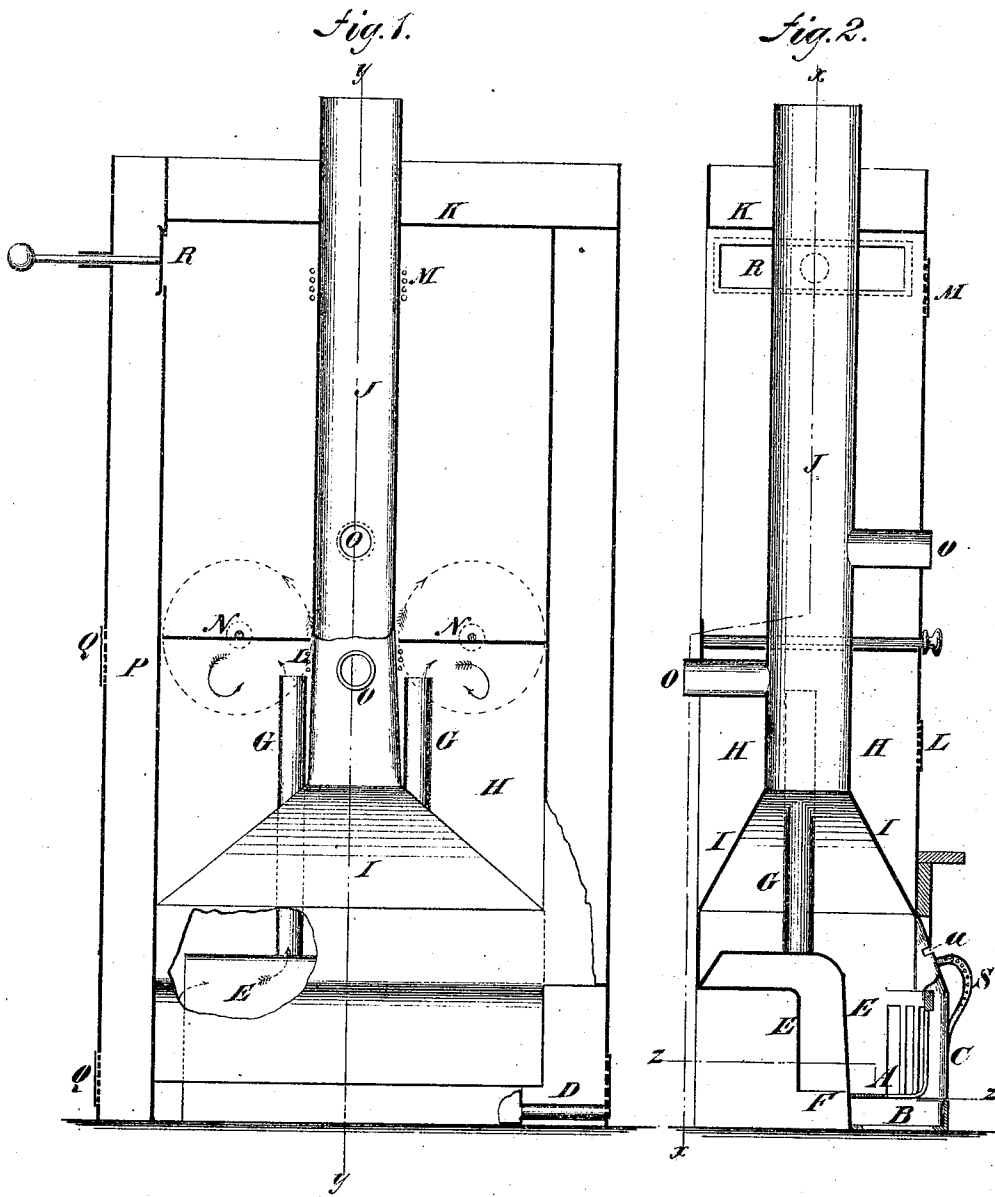


M. B. KING.
FIRE-PLACE.

No. 179,924.

Patented July 18, 1876.



UNITED STATES PATENT OFFICE.

MOLESWORTH B. KING, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN FIRE-PLACES.

Specification forming part of Letters Patent No. **179,924**, dated July 18, 1876; application filed May 22, 1876.

To all whom it may concern:

Be it known that I, MOLESWORTH B. KING, of Chicago, county of Cook, and State of Illinois, have invented a new and Improved Fire-Place Heater, of which the following is a specification:

This invention relates to an air-heating contrivance with a fire-grate for heating upper rooms; and consists of the construction and arrangement of the same, as hereinafter described.

Figure 1 is a sectional elevation of my improved air-heating attachment to fire-grates, taken on the line *x x* of Fig. 2. Fig. 2 is a section taken on line *y y*, Fig. 1. Fig. 3 is a horizontal section on line *z z*, Fig. 2.

Similar letters of reference indicate corresponding parts.

A is the fire-grate, below which I propose to arrange an ash-sifter over the ash-pit, for sifting the cinders from the ashes as they fall into the pit, and having a rod extending out at the front or side of one of the joints for working it. C is the blower, in which I propose to have a damper at A, to admit air to prevent the blaze from striking the enameled front of the fire-place, and for admitting a regulated supply of air over the fire-bed. D is a pipe, admitting fresh air from outside to the space under the fire-grate, for supplying air for combustion. E is a double back plate to the fire-box, receiving air at F for heating it, and for protecting the plate. G represents pipes connecting the space between the two parts of the back plate with the hot-air space H in the chimney above the inverted funnel-

top I of the fire-box, said pipes being (in practice) connected with the back plate by suitable collars, and passing through the funnel I. Said pipes also pass through the fire, so that the air is heated thoroughly. This funnel forms the partition between the fire-box and the hot-air space. J is the smoke-pipe, attached to the top of the funnel, and passing up through the partition. K, L, and M are registers for the escape of the hot air into the rooms; N, dampers between the registers; O, pipe-connection for connecting stove-pipes; and P represents a ventilating-tube, with registers Q, and also with a damper, R, opening with the hot-air space to let off the hot air when required.

I also propose to make a hollow handle, S, to the blower, with perforations, to allow the air to circulate through it and keep it cool.

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

1. The combination, in a fire-place heater, of the hollow back plate E, having air-inlet, the pipes G, the air-chamber H, and the funnel I, all constructed and arranged substantially as and for the purpose specified.

2. The combination, with fire-flue having enameled front, of a blower having air-inlet, to prevent the blaze from striking the enamel, as set forth:

MOLESWORTH BURTON KING.

Witnesses:

HENRY L. HILL,
JOHN J. SHORT.