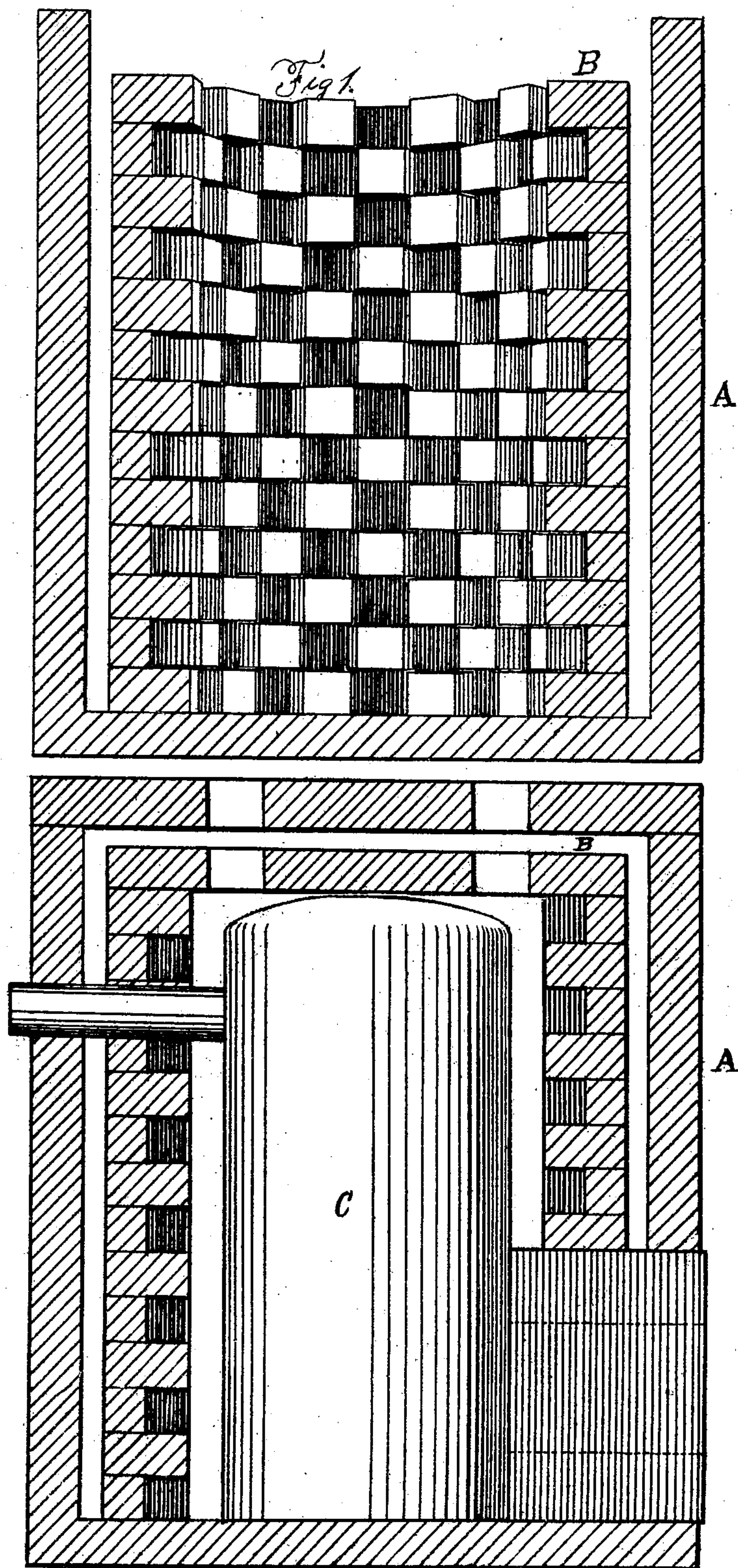


CHARLES J. SHEPARD.
Setting for Hot-Air Furnaces.

No. 128,179.

Patented June 18, 1872.



A. Sidney, Drawn
J. M. Kenney

Fig. 2.

Charles J. Shepard

UNITED STATES PATENT OFFICE.

CHARLES J. SHEPARD, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN SETTINGS FOR HOT-AIR FURNACES.

Specification forming part of Letters Patent No. 128,179, dated June 18, 1872.

To all whom it may concern:

Be it known that I, CHARLES J. SHEPARD, of Brooklyn, Kings county, New York, have invented, made, and applied to use improvements in "setting" for furnaces and heating apparatus for dwellings and other buildings; and that the following is a full, clear, and correct description of the same, reference being had to the accompanying drawing making part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is a vertical cut section of my improved setting. Fig. 2 is a vertical cut section of the same, the furnace or heater being placed in position.

In the drawing, like parts of the invention are pointed out by the same letters of reference.

The nature of the present invention consists in an improvement, as more fully hereinafter set forth, in the construction of setting for furnaces or heaters intended to heat buildings; the object of the invention being to so construct the setting that the largest amount of heat-retaining surface shall result.

To enable those skilled in the art to make and use my invention, I will describe the same.

The setting in the present instance is composed of an outer casing, A, of brick, within which is placed or constructed an interior wall or casing, B, surrounding the furnace or heater C. The inner wall or casing surrounding

the furnace C I propose to make circular, and to construct it so that every alternate row of bricks, or each alternate brick, shall project beyond the face of the wall one-half of its length, making it, as it were, a spicula of brick throughout the entire surface. Within the inner wall of bricks, constructed as just described, the heater or furnace is placed, the pipe from the same passing through the inner and outer casings, and access to the same being had by means of sliding plates secured in the front of the outer casing.

In the present instance it will be seen that, by projecting the bricks as shown, five sides of each brick so caused to project are employed as a heat-retaining surface, and that by arranging the bricks in alternate rows, the air supplied to the furnace is allowed to circulate freely through the casing and become heated in such passage, and is then supplied to the buildings through the pipes introduced into the top of the casing A.

Having now set forth my invention, what I claim as new is—

The combination, with the outer casing A, of an inner casing or setting, B, constructed substantially as described, for the purpose specified.

CHARLES J. SHEPARD.

Witnesses:

A. SIDNEY DOANE,
WM. HASTINGS.