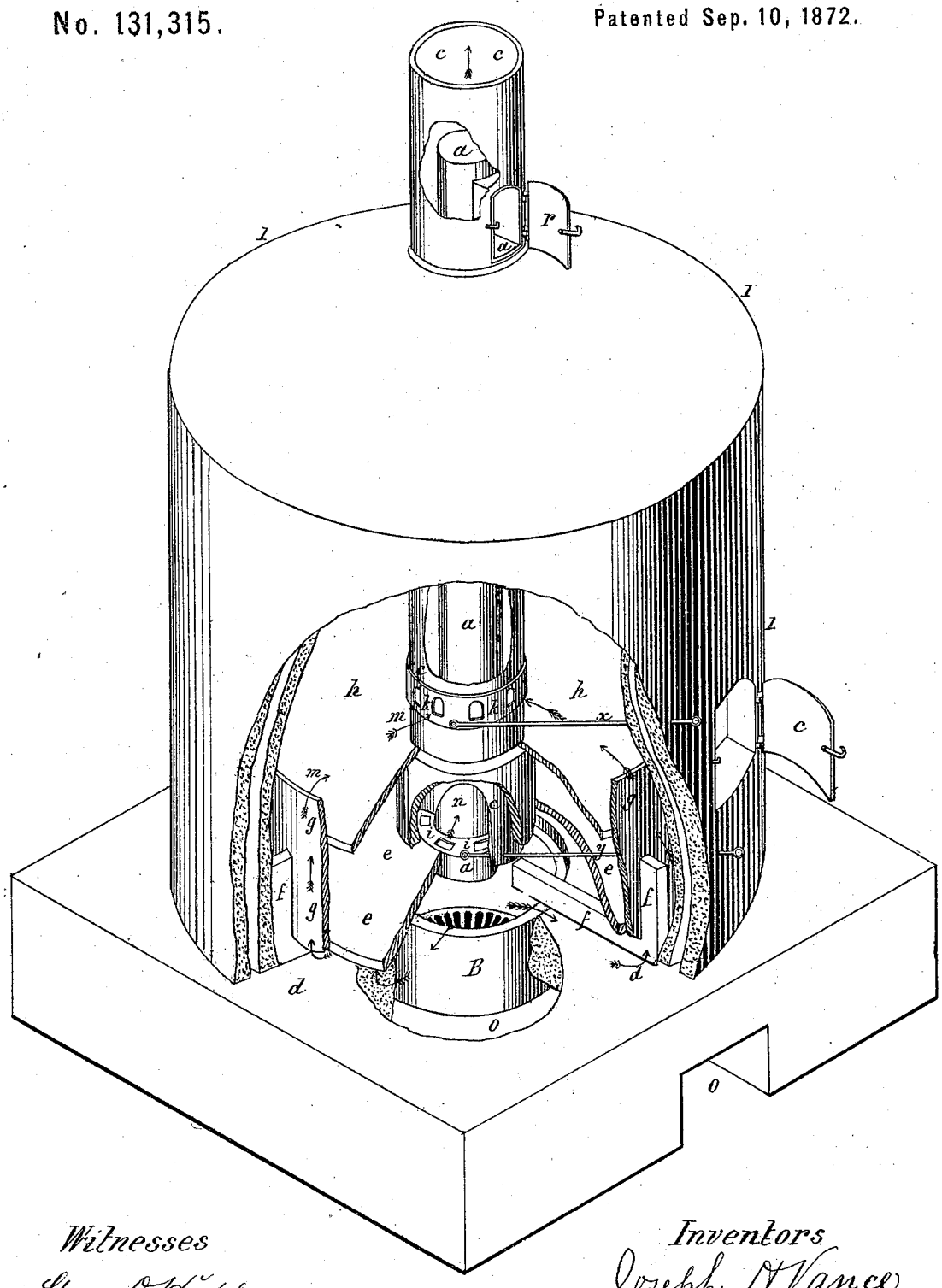
J. H. VANCE & F. B. HALL.

Bakers' Oven.

No. 131,315. Patented Sep. 10, 1872.



Witnesses

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JOSEPH H. VANCE AND FREDERICK B. HALL, OF ANN ARBOR, MICHIGAN.

IMPROVEMENT IN BAKERS' OVENS.

Specification forming part of Letters Patent No. **131,315**, dated September 10, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that we, JOSEPH H. VANCE and FREDERICK B. HALL, of the city of Ann Arbor, county of Washtenaw and State of Michigan, have invented a new and Improved Baker's Oven, of which the following is a full and exact description, reference being had to the annexed drawing as forming a part of the specification.

The main feature of our invention consists in a central heater in combination with the means for carrying the heat to the outer parts of the interior space, thus securing a more or less even distribution of the heat over the floor on which the baking is done.

t t t is the shell of the oven, the inner space of which is cylindrical, and in which the baking-floor *h h* may be made to revolve by any of the well-known means. The furnace B, in which the fuel is burned, is placed in the center of the interior space of the oven. The feed-pipe *a a* is placed vertically over the furnace B, so that when fuel is passed into the door *r*, which is above the oven, it will fall into the furnace. The smoke-stack *c c* surrounds the feed-pipe. This arrangement is essentially the same as that of the well-known base-burning or self-feeding stoves. The floor *h h e e* of the oven is double, having a space between the two parts for the purpose of securing a more even distribution of heat on the upper floor. There is a space between the floor *g g* and the ground floor *d d* of the oven, and annular spaces between floors and the inner wall *g g g* of the oven. These spaces are divided into several passages by the partitions *f f f*, so that the heat from the central furnace is compelled to pass horizontally outward along the passages thus formed to the annular spaces before mentioned; thence vertically upward a short distance; thence into the space over the baking-floor *h h;* thence through openings *k k* into the smoke-stack *c c*. The course of the heat thus described is shown by the several arrows *m m m*.

The heat is prevented from escaping from the oven by closing the opening *k k* by means of the damper *x x*, and the draft of the furnace is regulated by the damper *y*. When it is open the heat passes directly up the smoke-stack, and when it is closed it is forced into the passages *g g*, as before described.

The door *c* gives access to the interior of the oven, and the passage *o o* gives access to the lower part of the furnace.

What we claim as our invention is—

1. A cylindrical baking-oven with a central heating-furnace, as and for the purposes described.

2. The combination of a central heating-furnace, B, with the air-passages *g g g*, as and for the purposes described.

JOSEPH H. VANCE.
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Witnesses:
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