

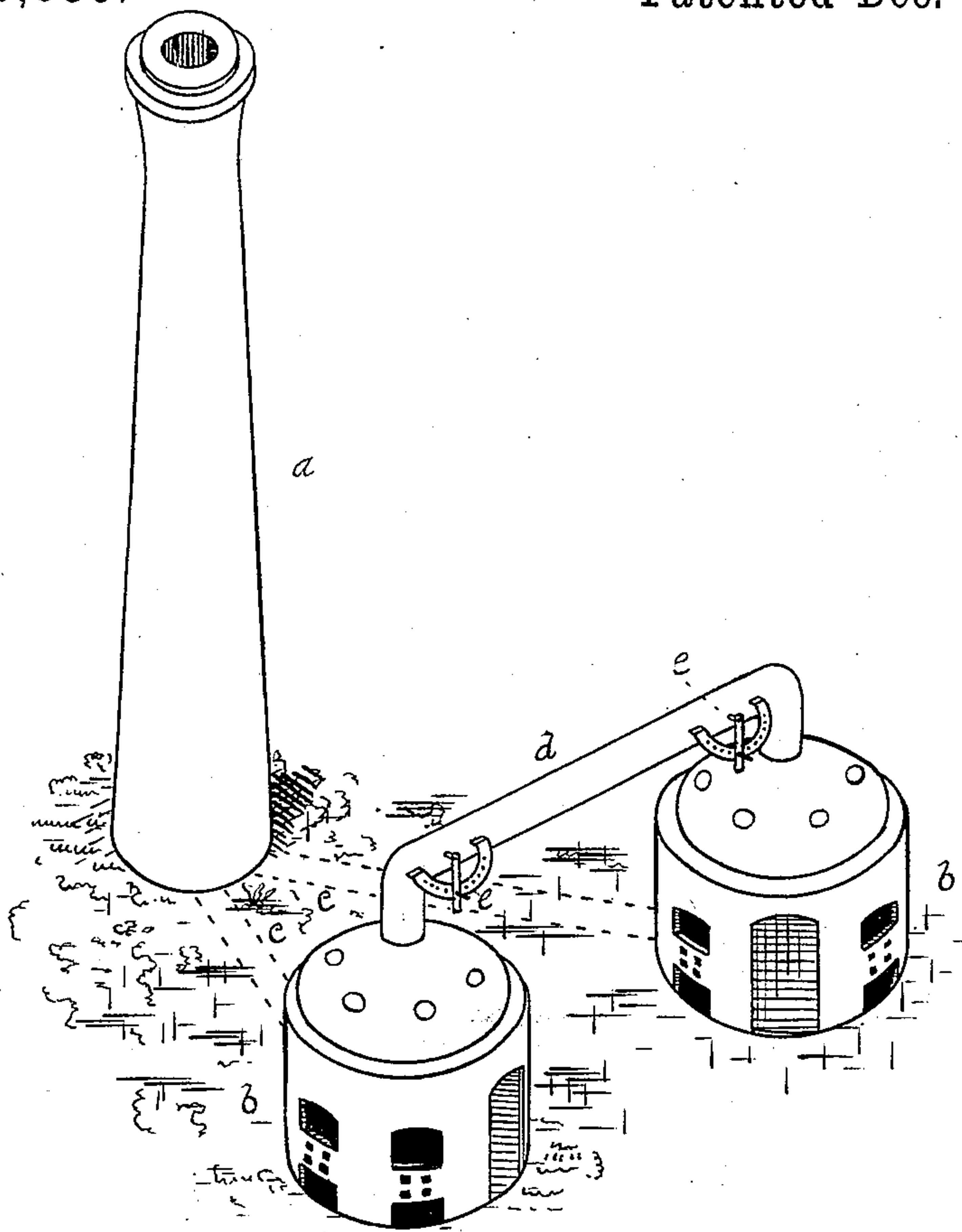
(No Model.)

L. C. FARNAM.

TILE KILN.

No. 309,836.

Patented Dec. 30, 1884.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## TILE-KILN.

SPECIFICATION forming part of Letters Patent No. 309,836, dated December 30, 1884.

Application filed June 30, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, LINDSEY C. FARNAM, a resident of the town of Niantic, county of Macon, and State of Illinois, have invented  
5 certain new and useful Improvements in Tile-Kilns, of which the following is a specification.

In the drawing accompanying and forming a part of this specification a tile-kiln embodying my invention is shown in isometrical perspective. *a* is the chimney. *bb* are tile-kilns  
10 constructed in the customary manner. *cc* are underground pipes connecting the kilns with chimney *a*. *d* is a pipe that connects the tops of kilns *bb*. *ee* are dampers in pipe *d*.

15 In operation one of the kilns is filled and burned in the customary manner, and while it is burning the second kiln is filled. During the time the first kiln is burning dampers *ee* are kept closed; but as soon as the burning is  
20 completed the dampers are thrown open and the heat of the cooling kiln used to water-smoke the tile contained in the second kiln.

By using a greater number of kilns and connecting them in the manner specified the processes of filling, water-smoking, and burning  
25 may constantly follow each other in the order named and all the heat of all the kilns be entirely utilized.

The pipe *d* may be made of various kinds  
30 of material; but in cold weather at least I would prefer to construct it of brick, in order

that the cold should not to any great extent affect the result of the operation.

I have shown the dampers provided with levers adapted to be adjusted with relation to  
35 a semicircular rack by means of holes and suitable pins; but the only object of such illustration is to suggest the fact that the position of the dampers should be under absolute control, and slide-dampers may be used with as  
40 good or better effect than the form shown.

To insure the passage of all the escaping heat of the cooling kiln through pipe *d*, it is necessary that the dampers in the pipe that connects the said kiln with the chimney should  
45 be closed.

My invention has for its object the utilization of the heat of a cooling kiln for the purpose of "water-smoking" the tile in another and separate kiln, and consists in the following, which  
50

I claim as new and desire to secure by Letters Patent—

The combination of kilns *bb*, chimney *a*, underground pipes *cc*, and connecting-pipe *d*,  
55 provided with suitable dampers, substantially as shown and described.

LINDSEY C. FARNAM.

Attest:

B. F. BURT,  
C. C. CLARK.