

(No Model.)

F. EBERHART.
BAKING OVEN.

No. 492,938.

Patented Mar. 7, 1893.

Fig. 1.

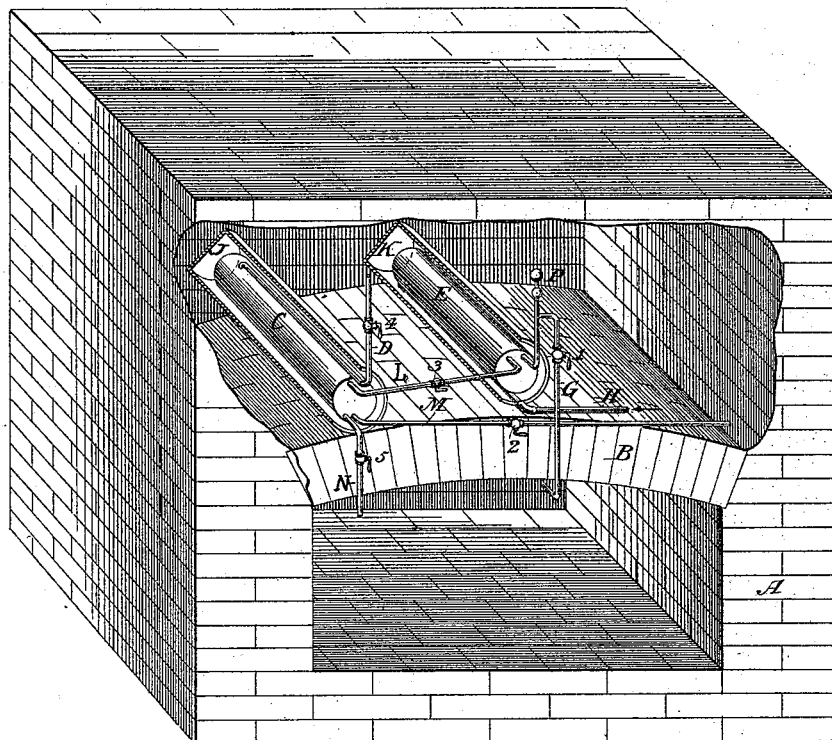
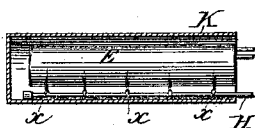


Fig. 2.



WITNESSES:

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FRANK EBERHART, OF NEW YORK, N. Y.

BAKING-OVEN.

SPECIFICATION forming part of Letters Patent No. 492,938, dated March 7, 1893.

Application filed June 11, 1892. Serial No. 436,409. (No model.)

To all whom it may concern:

Be it known that I, FRANK EBERHART, a citizen of the United States, residing in the city, county, and State of New York, have invented a new and useful Improvement in Ovens for Baking Bread, &c., of which the following is a specification.

My invention relates to improvements in the means of producing hot water or steam in bakeries by utilizing the heat of the oven for that purpose, and the object of my invention is to provide a continuous supply of hot water or steam for use in the bakery by appropriating the heat of the walls or crown of the oven for that purpose. I attain this object by the mechanism illustrated in the accompanying drawings, in which

Figure 1 represents the oven, being broken up over the crown to show the device, and Fig. 2 the steam cylinder E, with its gas jets for superheating its contained steam.

In a baker's oven the holding vessels or cylinders J and K are built in the masonry, in any convenient place suitable for receiving heat from the oven. I prefer, however, to place one or more in the sand which is filled in over the crown B of the oven. Into these holding, or receiving vessels are placed one or more cylinders C, E, for generating hot water, or steam. The receiving cylinders, J and K, should be closed in front by a door or circular disk which can be removed when repairs are needed. To the vessel, or cylinder, C, is connected the cold water supply pipe D, having a cock 4 also a sediment or blow-off pipe N having the cock 5. The hot water distributing pipe M, having the cock 2 leads from the cylinder to a convenient place for the distribution of hot water for use in the bakery.

The hot water cylinder may be used alone

or another cylinder E for generating steam may be connected to the cylinder C, by the pipe L, having a cock 3, to prevent the steam from rushing back when being super-heated by means of the gas burners, Fig. 2, on the gas pipe H, lying under the steam cylinder E. This cylinder is put above the middle of the arch B, so high that no hot water, or very little can run into it from the other cylinder C. It will be necessary also to have a safety valve P, connected with this cylinder E. The pipe G, having a cock 1, terminates in the interior of the oven so that the operator may permit the steam to escape into the oven on the bread in process of baking.

More than one cylinder may be placed in the receptacle J, which is partially filled with sand to convey the heat and hold the cylinder or cylinders in position. We may dispense with the receiving vessel J, putting the generating cylinder C, directly into the mason work if preferred.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. In a baker's oven the receptacles built in the masonry or sand for holding a generating boiler or boilers, which can be removed without disturbing said masonry; in combination with their contained cylinders for the heating of water or the production of steam as set forth.

2. The boiler or boilers, in combination with their receptacles in the walls or crown of an oven, the gas-burners, steam and water pipes and safety valve substantially as specified.

FRANK EBERHART. [L. S.]

Witnesses:

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