No. 673,771. Patented May 7, 1901.

W. FROHNE.

OVEN.

(Application filed Sept. 17, 1900.)

(No Model.)

Fig. 1.

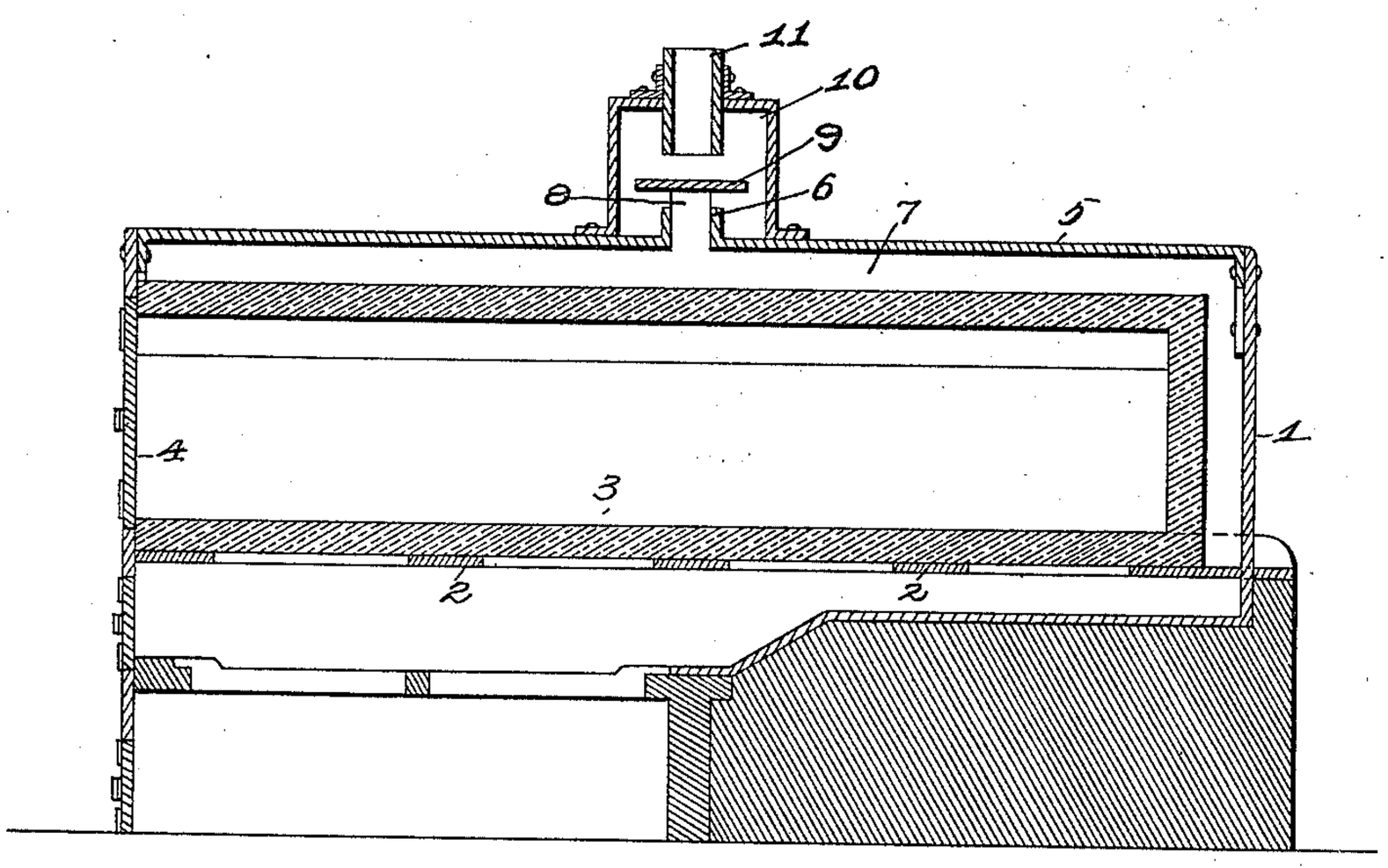


Fig. 2.

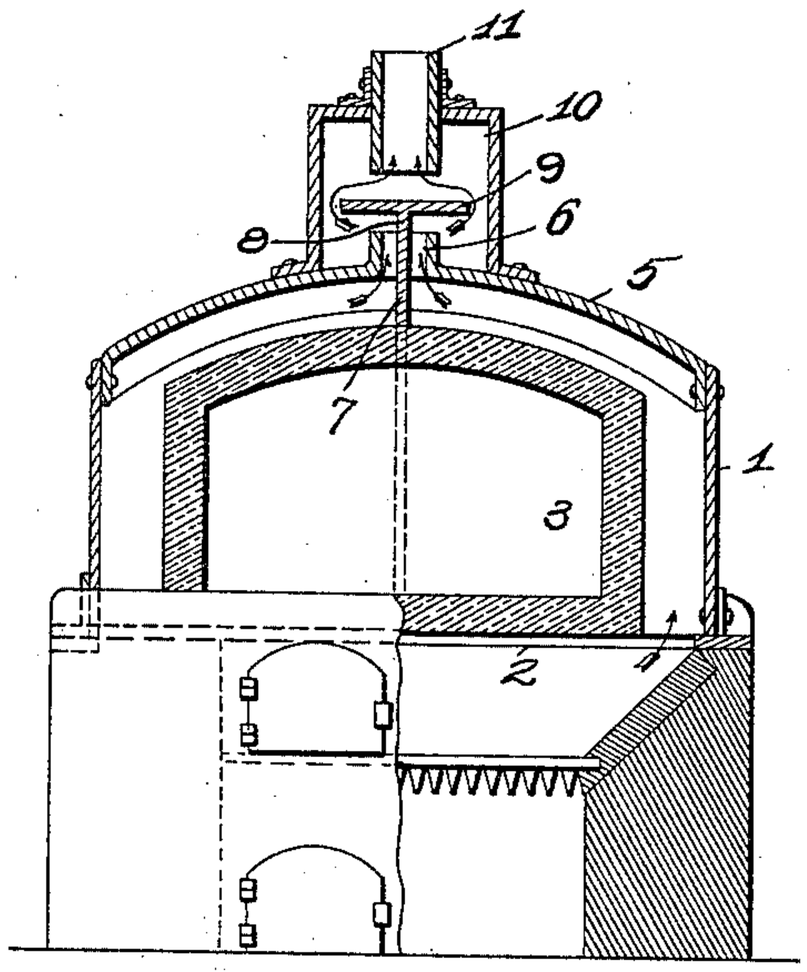
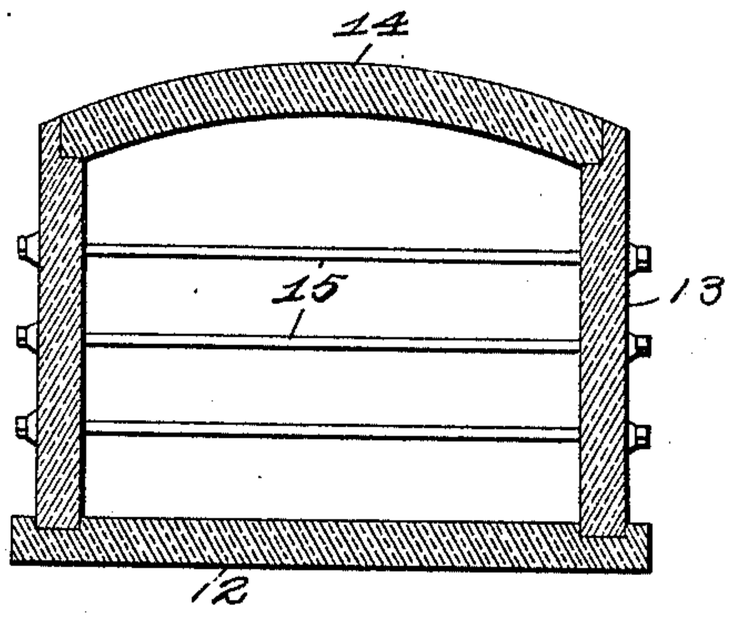


Fig. 3.



Witnesses:
H. W. Dueckel.
John D. Rippey

Inventor:
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By Hazdon Longan Atty's

UNITED STATES PATENT OFFICE.

WILLIAM FROHNE, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO AUGUST J. LAGER, OF SAME PLACE.

OVEN.

SPECIFICATION forming part of Letters Patent No. 673,771, dated May 7, 1901.

Application filed September 17, 1900. Serial No. 30,327. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM FROHNE, of the city of St. Louis, State of Missouri, have invented certain new and useful Improvements in Ovens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

This invention relates to ovens; and it consists of the novel construction, combination, and arrangement of parts hereinafter shown, described, and claimed.

Figure 1 is a longitudinal sectional view taken through the center and showing the construction and arrangement of my improved oven. Fig. 2 is a view looking to the rear, with parts shown in section. Fig. 3 is a detail sectional view showing a modified form of oven which may be used instead of the form shown in Figs. 1 and 2.

Referring to the drawings in detail, 1 denotes the outer walls, which are mounted upon the walls of the furnace, and supported above the furnace is a plurality of transverse strips 2.

An oven 3, constructed, preferably, of yellow clay, is supported on the strips 2, the forward end of the oven being open and bearing against the wall 1. By practical experience I have found that an oven constructed of yellow clay possesses superior advantages over those of other materials, because of the fact that it retains the heat for a longer time than the materials commonly used in oven construction. By retaining the heat longer the oven is better adapted to baking, and hence is more efficient for the object of its construction. The rear end of the oven is at a slight remove from the outer wall in order that the heat from the furnace may pass entirely around the oven. Access may be had to the interior of the oven through a door 4, adapted to close an opening through the front of the wall 1. A rounded top 5 is supported by the walls 1 and is provided through its center with an opening 6, through which heat and the products of combustion from the furnace are allowed to pass. A division-wall 7 is carried above the oven 3 and extends down the rear end of the oven to its lower edge, thereby causing the heat to pass equally on both sides of the oven. A projection 8 is integral with the division-wall 7 and projects through the opening 6 and carries on its upper extremity a deflector-plate 9, whereby all moisture and falling substances are prevented from reaching the top of the oven. A large encircling flue 10 surrounds the opening 6 and is provided through its top with an opening 11 of equal size to the opening 6.

In Fig. 3 is shown a modified form of oven which may be made use of instead of the oven 3. It consists of the bottom 12, the vertical sides 13, and the rounded top 14, formed in separate castings and held together by means of the transverse rods 15, whereby the interior of the oven is divided into a number of compartments arranged one above the other. This construction of oven permits a number of articles to be placed therein at one time, the different articles being carried on the transverse rods 15, whereby they are held out of contact with each other.

An oven constructed as described possesses advantages over those of ordinary construction. The heat from the furnace is passed equally around both sides of the oven and up the rear end, and a strong draft is formed by means of the projections 8 and the deflector 9.

I claim—

In an oven, suitable outer walls mounted above the furnace, a top carried by the outer wall, an opening through the said top, an oven supported within the outer wall, a division-wall carried above the said oven, and a deflector-plate supported above the opening through the said outer wall, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM FROHNE.

Witnesses:
J. D. RIPPEY,
ALFRED A. EICKS.