

B. A. GEURINK.
BAKE OVEN.
APPLICATION FILED MAY 29, 1909.

939,410.

Patented Nov. 9, 1909.

Fig. 1

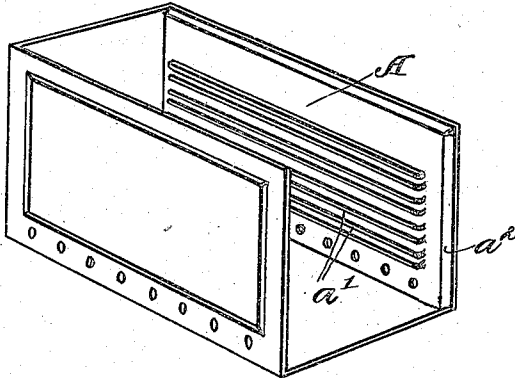


Fig. 4

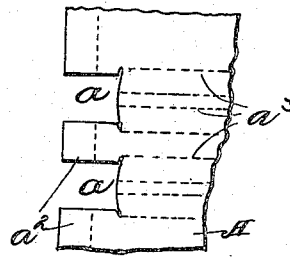


Fig. 2

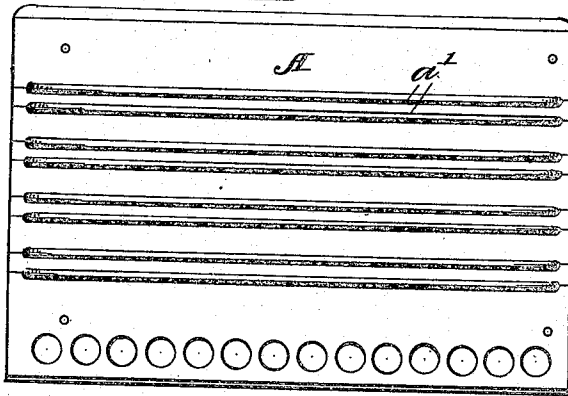


Fig. 2a

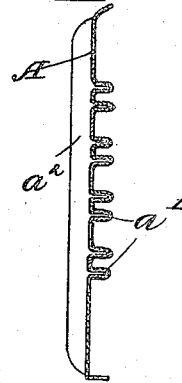


Fig. 3

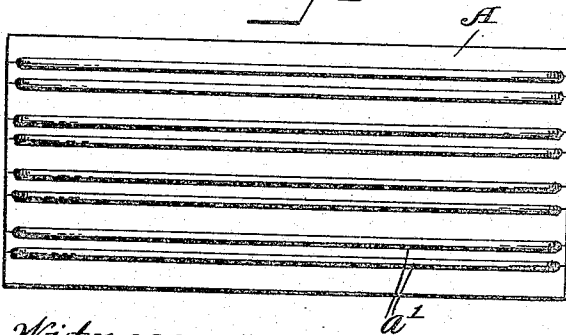
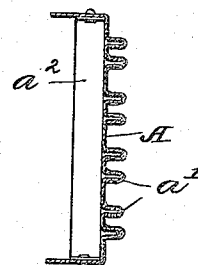


Fig. 3a



Witnesses:
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UNITED STATES PATENT OFFICE.

BERNARD A. GEURINK, OF EAST CLEVELAND, OHIO, ASSIGNOR TO THE TRENKAMP STOVE & MANUFACTURING COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

BAKE-OVEN.

939,410.

Specification of Letters Patent.

Patented Nov. 9, 1909.

Application filed May 29, 1909. Serial No. 499,211.

To all whom it may concern:

Be it known that I, BERNARD A. GEURINK, a citizen of the United States, and a resident of East Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Bake-Ovens, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

The present invention has as its object the provision of an improved construction of lining plate for ovens, and particularly for the ovens, whether for baking or other purposes, of stoves or ranges using gas as a fuel. Such plates are generally provided with transverse ribs forming guide-ways whereon a tray or plate may be slidably held at different elevations, depending upon the particular use being made of the oven.

The present invention has regard then more especially to the construction of such lining plates and guide-ways out of an integral sheet of material so as to present a durable and neat appearing structure, as also one that will readily lend itself to the reception of a porcelain enamel finish wherewith such plates are desirably coated.

To the accomplishment of these and related ends said invention consists of the means hereinafter fully described and particularly pointed out in the claims.

The annexed drawing and the following description set forth in detail certain mechanism embodying the invention, such disclosed means constituting, however, but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawing:—Figure 1 is a broken perspective view of an oven wherein lining plates of my improved construction have been incorporated; Fig. 2 is an elevational view of one form of such plate, and Fig. 3 a similar view of another form thereof, while Figs. 2^a and 3^a are respectively vertical cross sections of such plates; and Fig. 4 is a plan view of one of the sheets as it appears in the process of manufacture.

Whatever the general shape or outline of the lining plate, such shape depending upon the size and use to which the oven, whereof it forms a part, is to be put, I form the same out of an integral sheet of metal. Thus for the particular oven illustrated, a rectangu-

lar sheet A is taken and recesses *a* cut into the respective ends of the same, as indicated in the broken view of Fig. 4. Thereupon said sheet is crimped transversely along the dotted lines *a*³ to form guide ribs *a*¹, which ribs are not closed, but are left to open freely on the rear side. Incidentally to the cutting of the recesses *a* in the ends the adjacent inner corners of the recesses are slitted to permit the ends of such ribs to be rounded shut, as appears in Figs 2 and 3. The size of the ribs, furthermore, is made such as to close the lateral edges of the recesses together to form in effect a continuous sheet again at the ends of the plate. Such ends, thus rendered continuous, are thereupon bent in a direction opposite to that of the ribs to form flanges *a*² that close the ends of the side walls of the assembled oven (see Fig. 1). The foregoing construction, it will accordingly be seen, provides a lining plate that, while easy of manufacture, presents guide ribs of neat and attractive appearance, and that are in addition better adapted to sustain the burden that is imposed upon them when in use than is the case where the ribs consist of channels or angles riveted to the lining plates. At the same time their form permits all portions of the sheets, rear as well as front side, to be thoroughly coated with the porcelain enamel which I employ in finishing the article. A readily cleansed and highly sanitary oven is, in this manner, obviously secured.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means stated by any of the following claims or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention:—

1. As an article of manufacture, a lining plate for an oven or the like, comprising a sheet of metal, spaced sections of the material of the sheet being removed along an edge thereof, and said sheet being thereupon transversely crimped in line with the sections thus removed to form guide ribs terminating short of such edge, substantially as described.

2. As an article of manufacture, a lining plate for an oven or the like, comprising a sheet of metal, spaced sections of the ma-

terial of the sheet at each end being removed and said sheet thereupon transversely crimped in line with the sections thus removed to form guide ribs, such ribs opening freely on the rear side, and terminating short of the ends of said sheet, and the ends of such ribs being rounded shut, substantially as described.

3. As an article of manufacture, a lining plate for an oven or the like comprising a sheet of metal flanged at each end, spaced sections of the material of the sheet at each end being removed and said sheet thereupon transversely crimped in line with the sections thus removed to form guide ribs directed oppositely to such flanges, such ribs opening freely on the rear side, and terminating short of the ends, of said sheet, and the ends of such ribs being rounded shut, substantially as described.

4. As an article of manufacture, a lining plate for an oven or the like, comprising a sheet of metal, spaced sections of the sheet being removed along an edge thereof to provide recesses and said sheet thereupon transversely crimped in line with the recesses

thus provided to form guide ribs terminating short of such edge, and said sheet being slitted adjacent to such recesses to permit the ends of such ribs to be rounded shut, substantially as described.

5. As an article of manufacture, a lining plate for an oven or the like, comprising a sheet of metal, flanged along an edge thereof, spaced sections of the material of the sheet being removed along such edge to provide recesses and the sheet being thereupon transversely crimped in line with the recesses thus provided to form guide ribs directed oppositely to such flanges, such ribs opening freely on the rear side, and terminating short of such edge of said sheet, and the inner adjacent corner of said sheet being slitted adjacent to such recesses to permit the ends of such ribs to be rounded shut, substantially as described.

Signed by me this 27th day of May, 1909.

BERNARD A. GEURINK.

Attested by—

ANNA L. GILL,
JNO. F. OBERLIN.