

H. GEHRICH.
WALL CONNECTION FOR OVENS.
APPLICATION FILED JUNE 14, 1917.

1,268,707.

Patented June 4, 1918.

Fig. 1.

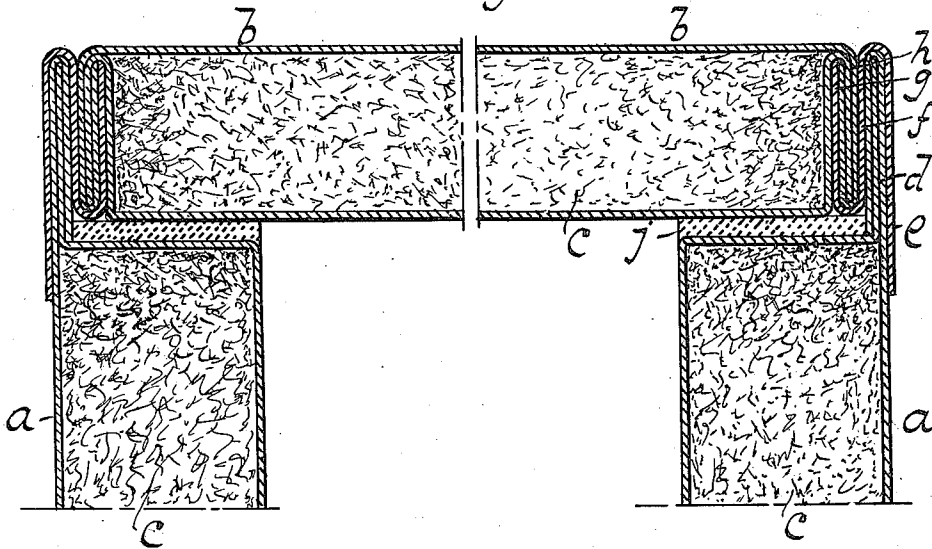
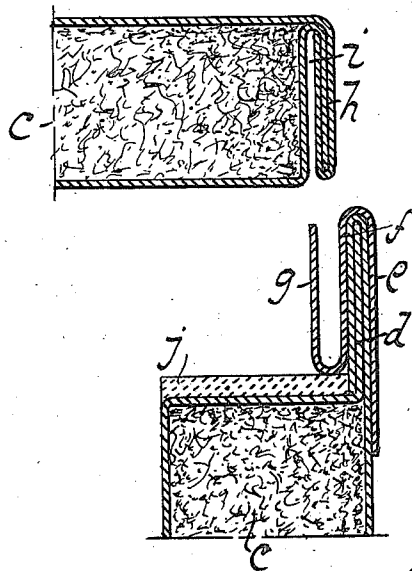


Fig. 2.



Inventor
Hermann Gehrich
By his Attorneys
Hauff Barland.

UNITED STATES PATENT OFFICE.

HERMANN GEHNRIK, OF BROOKLYN, NEW YORK, ASSIGNOR TO GEHNRIK INDIRECT
HEAT OVEN COMPANY, OF BROOKLYN, NEW YORK, A CORPORATION OF NEW YORK.

WALL CONNECTION FOR OVENS.

1,268,707.

Specification of Letters Patent.

Patented June 4, 1918.

Application filed June 14, 1917. Serial No. 174,797.

To all whom it may concern:

Be it known that I, HERMANN GEHNRIK, a citizen of the United States, residing at Brooklyn, county of Kings, and State of New York, have invented new and useful Improvements in Wall Connections for Ovens, of which the following is a specification.

This invention relates to a method of connecting the wall sections of an oven similar to that described in U. S. Patent 835,945 granted to me Nov. 13, 1906.

The present invention is designed to provide a sheet metal joint in which the wall sections can be easily fitted together and are kept in perfect alinement with each other.

The fundamental object of the invention is to provide one of the sections with a hook member, and a second section with means for sliding coaction with the hook member. In a construction of this kind when there is any undue pressure in the oven by the ignition of noxious vapors, the sliding wall will be displaced and injury to the other walls is averted.

The novel features of the invention are more fully described in the following specification and claims and illustrated in the accompanying drawing in which:—

Figure 1 represents a sectional side elevation of the upper part of an oven embodying this invention.

Fig. 2 is a similar section of a portion of the oven showing the top removed from the side.

In this drawing are shown side wall sections *a* and a top wall section *b* connected to the sides. Each section is formed of double walls spaced apart and a filling of asbestos *c* is arranged to fill the space between the walls to prevent radiation of the heat generated in the oven.

The side wall section is equipped with an upwardly extending flange *d* formed by lapping the ends of one wall over the other.

On this extension is fitted a hook or locking member having double shank portions *e* and *f* with a loop top to snugly fit over the

extension and clasp its sides. This hook member is provided with a reverse hook *g* formed by looping the lower portion of the shank *f* and bending it upwardly to parallel the shanks best seen in Fig. 2.

The top section *b* has a depending flange portion *h* formed by lapping the double wall plates. This depending portion is spaced to form a channel *i* located between the end of the section and the inner wall of the depending flange. A cushion *j* can be placed between the top and side sections to give a tight closure to the joint.

As indicated in the drawing, the locking member for connecting the two sections together forms a double reverse hook one portion of which is firmly clamped to the extension. When the top is placed onto the side as indicated in Fig. 1, the reverse portion of the hook will engage the channel in the top section and the depending part of the top will engage the space between the hook and its shank, thus preventing lateral displacement of the top and side. In this structure when the gases in the oven are accidentally exploded, the top wall will be lifted upward by the force, while the other walls remain intact.

I claim:—

1. A sheet metal joint comprising a wall section having an extension, a hook member formed with a doubled return bent portion fitted on to the extension, said member including a return bent end, and a wall section provided with a flange for coaction with the return bent end.

2. A sheet metal joint comprising a side wall section having an extension, a hook member formed with a doubled return bent portion fitted on to the extension, said member including a return bent end, and a top wall section having a depending flange for coaction with the return bent end.

3. A sheet metal joint comprising a double walled side section having an upwardly projecting extension made by lapping the ends of one wall over the other, a hook member formed with a doubled return bent portion

fitted on to the extension, said member including a return bent end, and a double walled top section having a depending flange made by lapping the ends of one wall over
 5 the other for coaction with the return bent end.

In testimony whereof I have hereunto set

my hand in the presence of two subscribing witnesses.

HERMANN GEHRICH.

Witnesses:

WILLIAM MILLER,
 GRACE DE VOE.