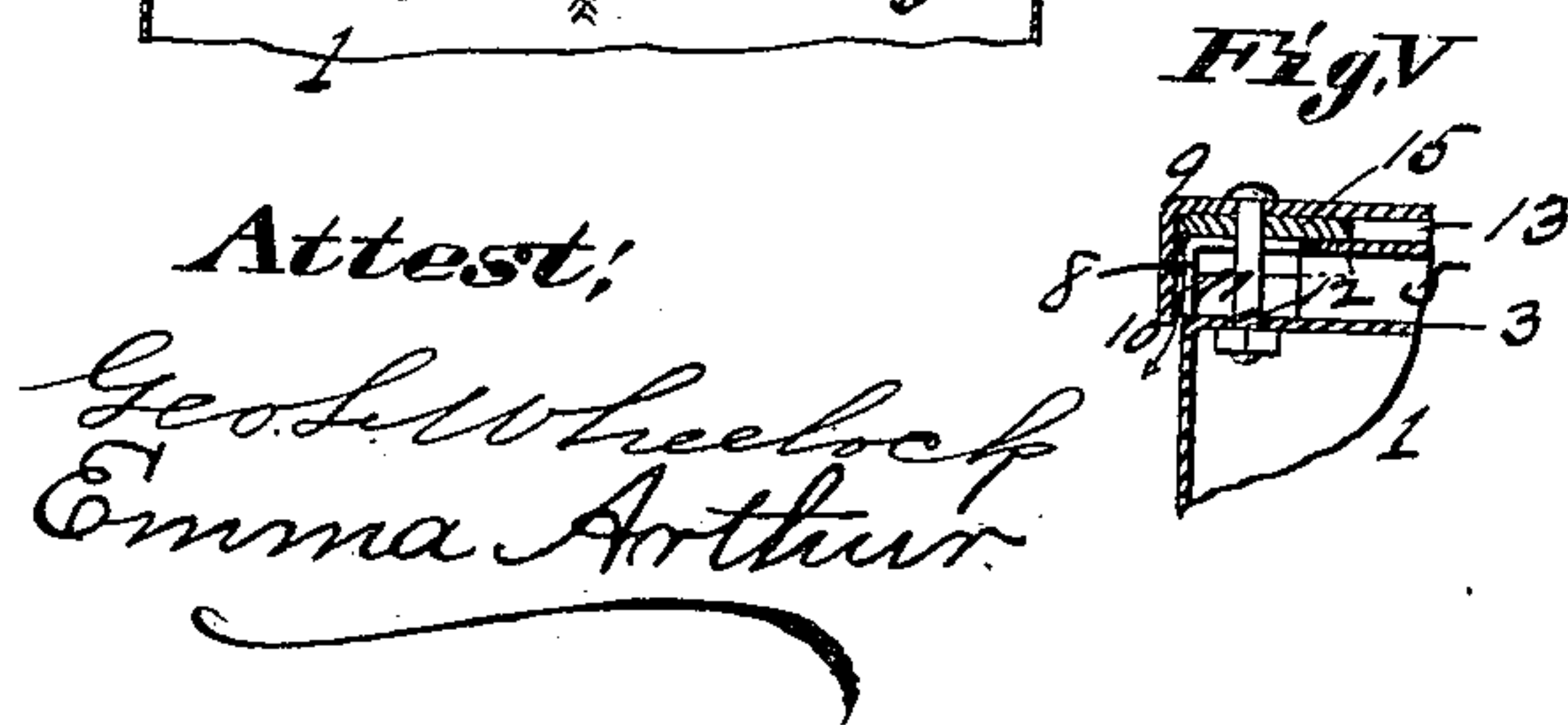
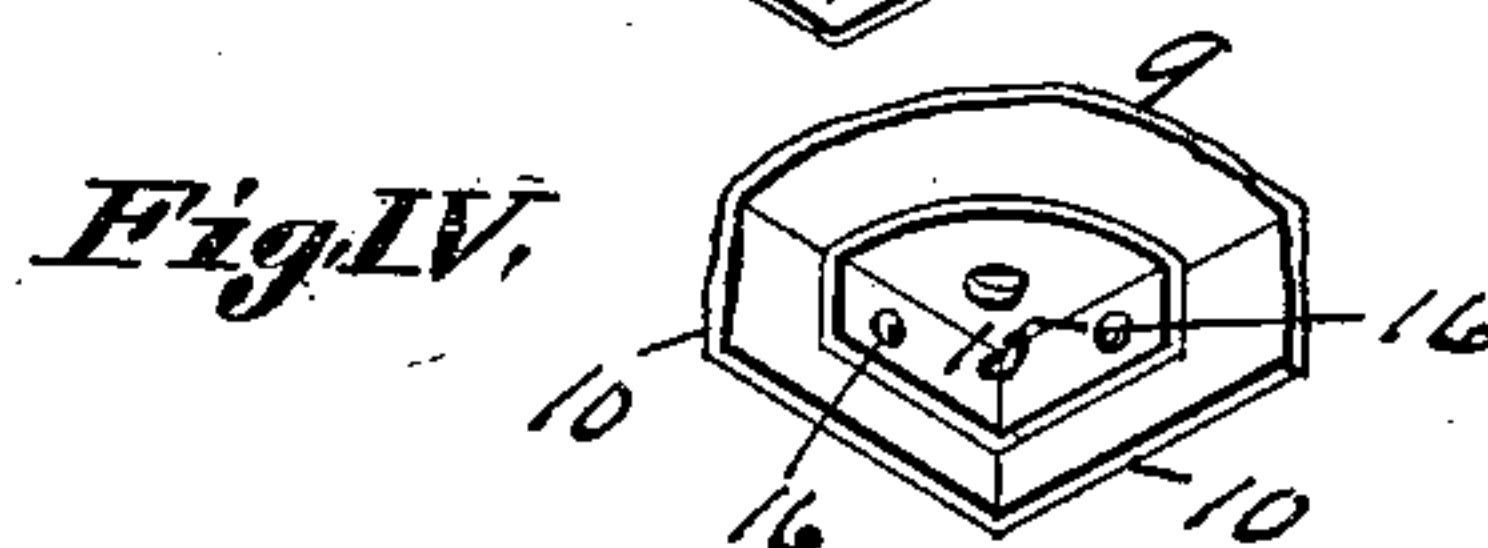
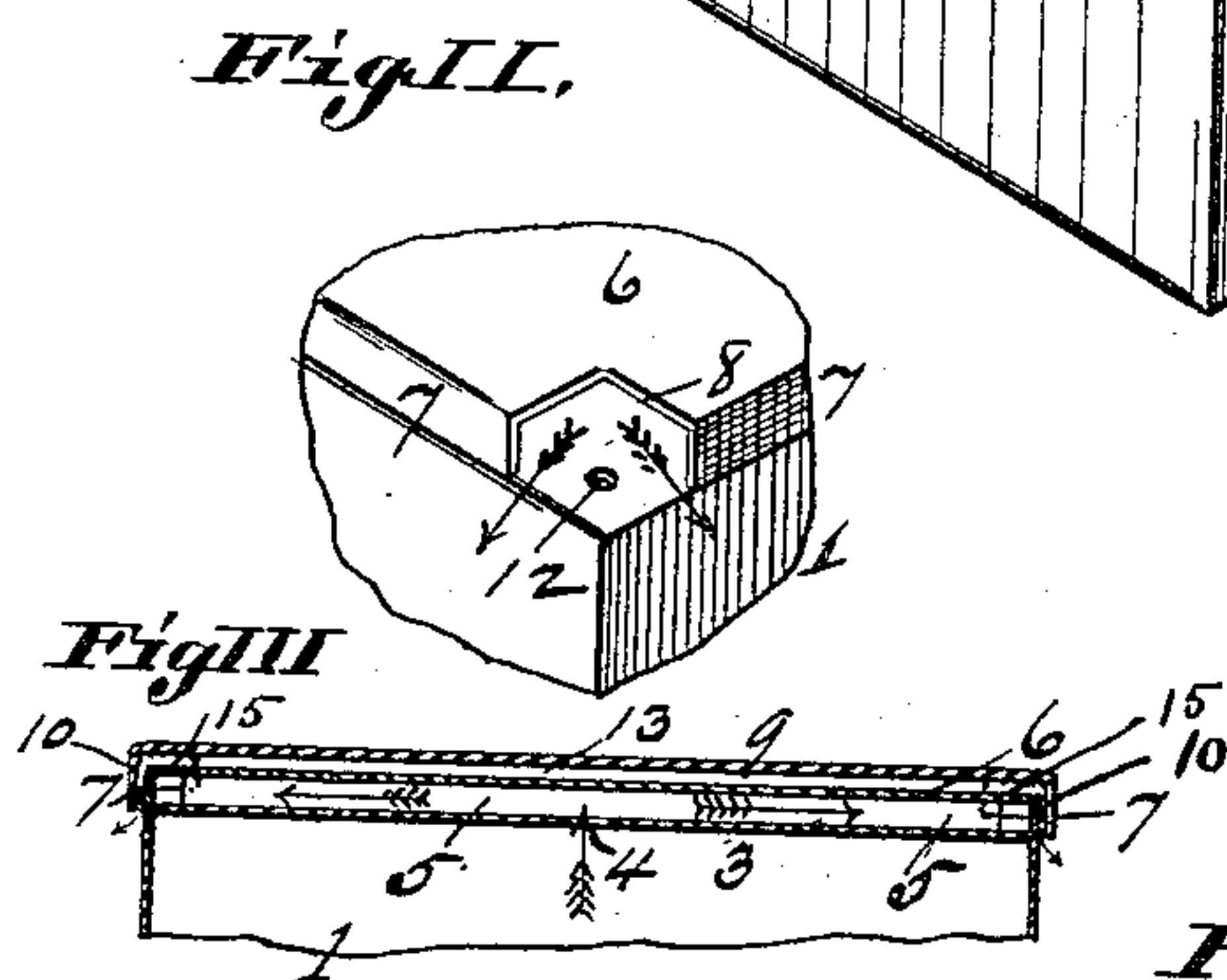
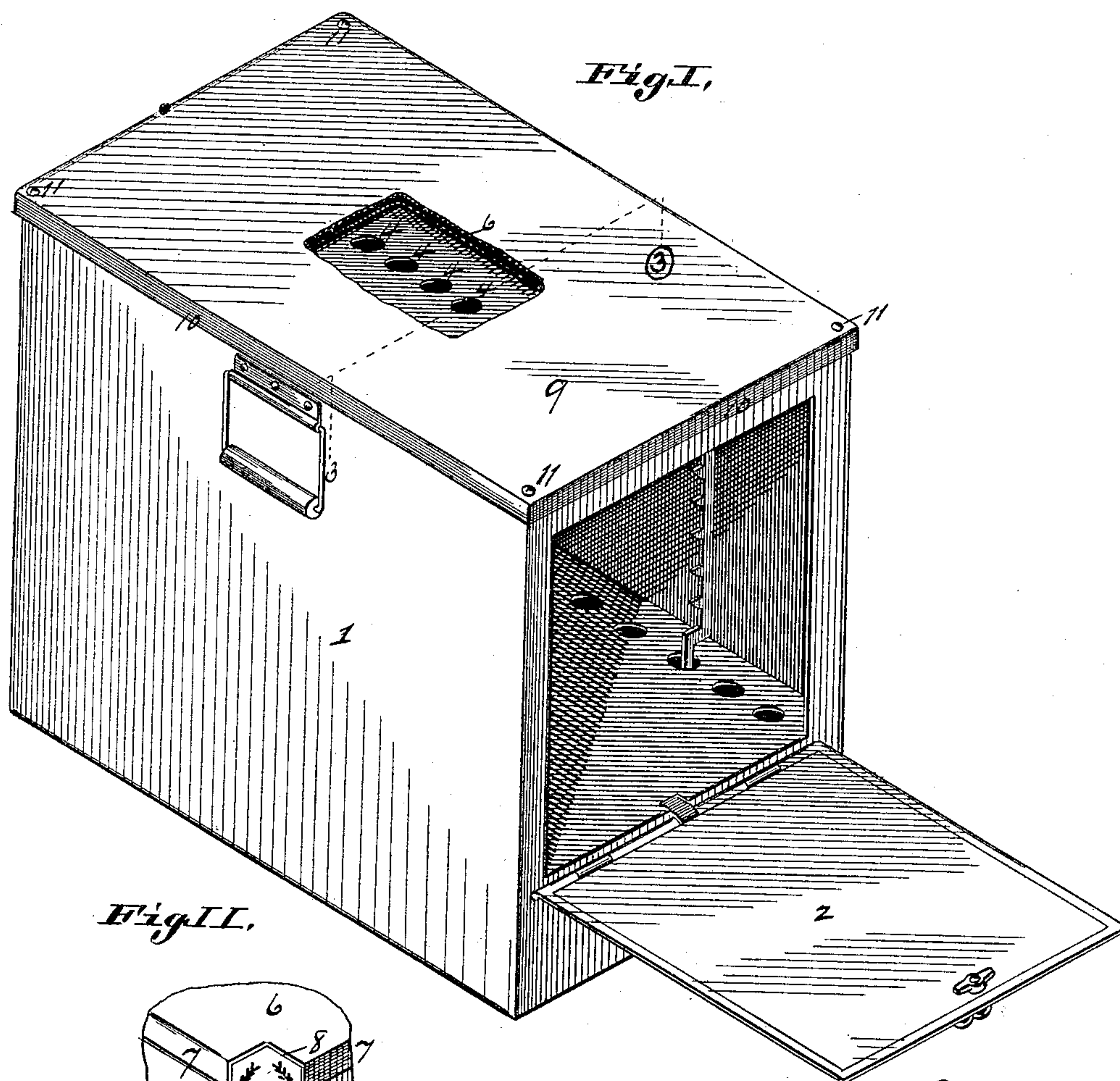


(No Model.)

J. RINGEN.  
GASOLINE OVEN.

No. 371,478.

Patented Oct. 11, 1887.



Attest;

Geo. L. Wheelock  
Emma Arthur

Inventor:  
Jus. Ringen  
By Knight Bros  
Atty



# UNITED STATES PATENT OFFICE.

JOHN RINGEN, OF ST. LOUIS, MISSOURI.

## GASOLINE-OVEN.

SPECIFICATION forming part of Letters Patent No. 371,478, dated October 11, 1887.

Application filed April 5, 1887. Serial No. 233,749. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN RINGEN, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Gasoline-Ovens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure I is a perspective view of my improved oven, showing the door open and part of the cover and lining broken away. Fig. II is a detail perspective view showing one corner of the oven and one corner of the lining, the cover being omitted. Fig. III is a transverse section taken on line III III, Fig. I. Fig. IV is a detail under perspective view of one corner of the cover. Fig. V is a detail section showing one of the upper corners of the oven and illustrating the manner of connecting the cover and lining to the body of the oven.

My invention relates to certain improvements in gasoline-ovens, the object being to construct a flueless oven with a heating-chamber on top; and my invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Referring to the drawings, 1 represents the body of the oven, provided with a door, 2, which may be made of any ordinary construction. In the top 3 of the oven are one or more perforations, 4, through which the heat passes into a chamber, 5, formed by the top and by a lining, 6, having downturned sides and ends 7, which rest upon or are secured to the top of the oven, as shown in Figs. II and III. This lining is preferably made in a separate piece from the oven-body and is held in place by the cover. At one or more corners of the oven the lining is notched out, as shown at 8 in Figs. II and V, to permit the escape of the heat from the chamber 5, as indicated by the arrows in Fig. II.

9 represents the cover having a marginal downturned flange, 10, and which sets over the lining 6, as shown in Figs. III and V. This preferably consists of some heavy sheet metal,

which may be japanned and ornamented. It will be seen that the marginal flange of this cover turns down, so as to hide the lining 6 from view, and it is preferably held in place by means of corner bolts, 11, that pass down therethrough, through the notches 8, and through perforations 12 in the top of the oven. (See Fig. V.)

A space, 13, is preferably left between the lining and the cover, so that as the former becomes heated the heat will not be so readily transmitted to the latter, thus avoiding the overheating of the latter, which, in case it is japanned or ornamented, would be injured by the heat, and, moreover, by not being overheated articles can be placed upon it that otherwise could not. I prefer to form this space 13 by means of brackets 15, secured to the cover 16, as shown in Fig. IV, and which, being larger than the notches 8, prevent the escape of the heated air into the chamber 13 at the corners of the oven.

The marginal flange of the cover is kept out of contact with the marginal flange of the lining by the vertical portions of the brackets. The heat is thus permitted to escape between the cover and lining at the corners beneath the brackets, as indicated in Fig. V.

With an oven thus constructed I am able to produce a heating-chamber on top without the use of side flues, and which does not overheat the cover of the oven.

I claim as my invention—

1. The combination, with a gasoline-oven having perforations in its top, of a lining forming a chamber thereover having openings for the escape of heat, and a cover supported above the lining out of contact with the sides of the lining, so as to permit the heat to escape from the chamber within the lining, substantially as described.

2. The combination, with a gasoline-oven having perforations in its top, of a lining forming a chamber thereover having openings for the escape of heat, a cover supported above the lining out of contact with the sides of the lining, so as to permit the heat to escape from the chamber within the lining, and

bolts or their equivalent for securing the cover and lining to the oven, substantially as described.

3. The combination, with a gasoline oven  
5 having perforations in its top, of the lining  
6, having downturned sides and ends 7 and  
notches 8, the cover 9, having downturned  
sides and ends 10, brackets 15, separating the

cover from the lining, and the bolts by which  
the cover and lining are secured to the oven, 10  
substantially as described.

JOHN RINGEN.

In presence of—  
GEO. H. KNIGHT,  
JOSEPH WAHLE.