

(No Model.)

2 Sheets—Sheet 1.

A. LINDEMANN.
DOMESTIC OVEN.

No. 545,511.

Patented Sept. 3, 1895.

Fig. 1.

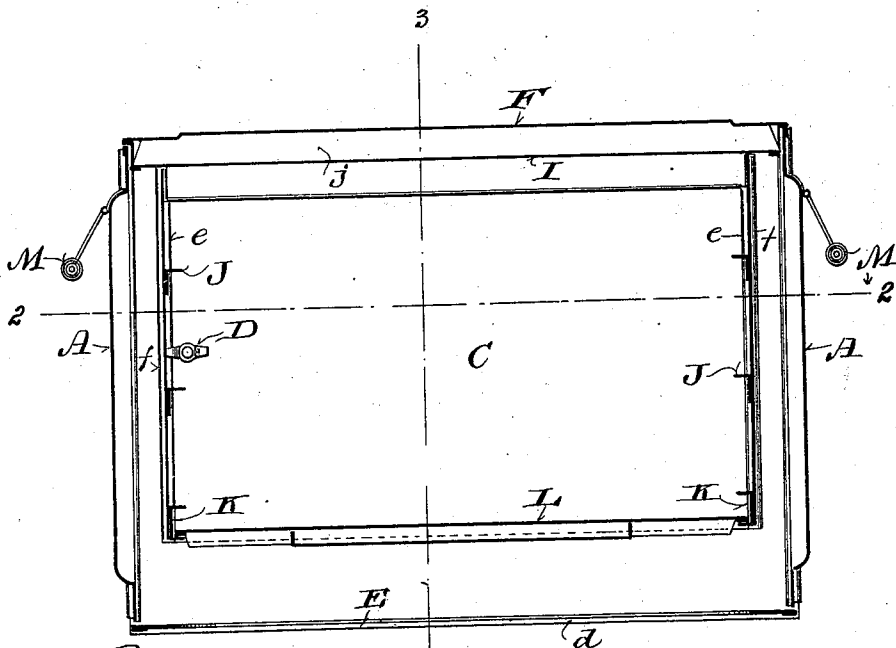
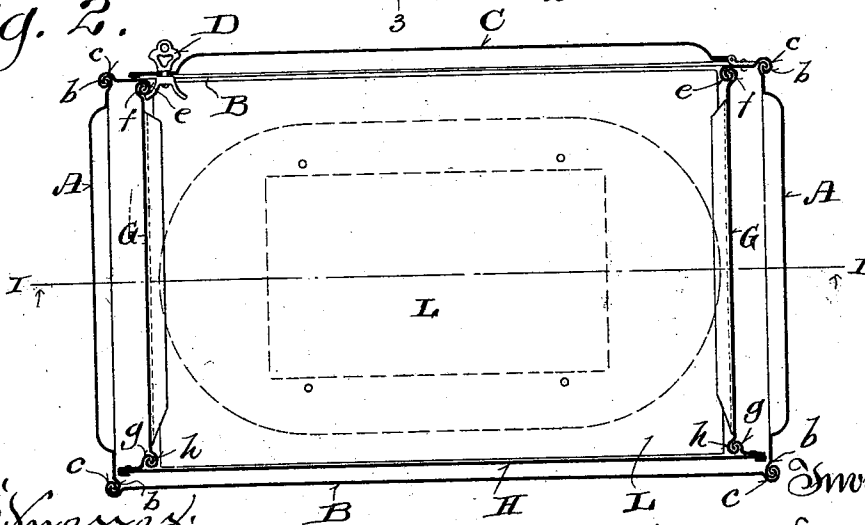


Fig. 2.



Witnesses:
Geo. W. Truitt,
N. E. Oliphant

Inventor:
August Lindemann
By H. E. Underwood
Attorney

(No Model.)

2 Sheets—Sheet 2.

A. LINDEMANN.
DOMESTIC OVEN.

No. 545,511.

Patented Sept. 3, 1895.

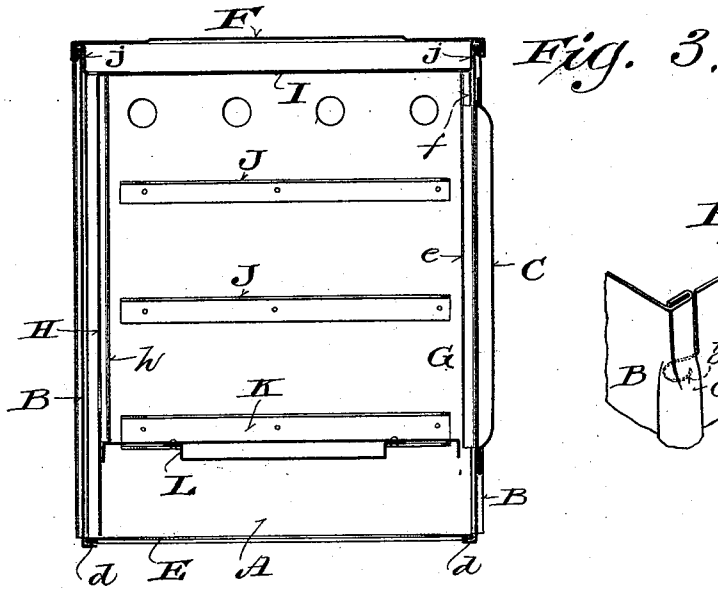


Fig. 3.

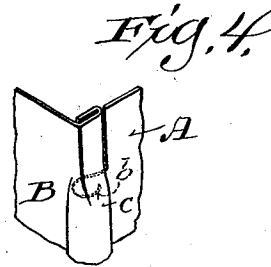


Fig. 4.

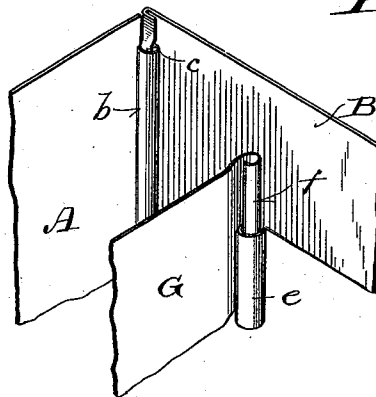
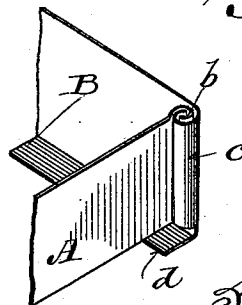


Fig. 5.

Fig. 7.



Fig. 6.



Witnesses:
Geo. W. Louny,
N. E. Oliphant

Inventor:
August Lindemann

By H. G. Underwood
Attorney

UNITED STATES PATENT OFFICE.

AUGUST LINDEMANN, OF MILWAUKEE, WISCONSIN.

DOMESTIC OVEN.

SPECIFICATION forming part of Letters Patent No. 545,511, dated September 3, 1895.

Application filed February 13, 1895. Serial No. 538,178. (No model.)

To all whom it may concern:

Be it known that I, AUGUST LINDEMANN, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Domestic Ovens; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide simple, practical, and economical knockdown sheet-metal ovens for use in connection with gas and vapor stoves; and it consists in certain peculiarities of construction and combination of parts hereinafter set forth, with reference to the accompanying drawings, and subsequently claimed.

In the drawings, Figure 1 represents a vertical longitudinal section of a sheet-metal oven constructed according to my invention, the section being taken on line 1 1 of the succeeding figure; Fig. 2, a horizontal section taken on line 2 2 of the preceding figure; Fig. 3, a vertical traverse section on line 3 3 of the first figure; Figs. 4, 5, and 6, inclusive, perspective views of certain structural details to which especial reference is hereinafter made, and Fig. 7 a detail sectional view illustrating one form of an interior support embodied in the oven.

Referring by letter to the drawings, A represents the ends, and B the sides, of a shell that constitutes part of my improved oven, said ends and sides being in hinge-joint connection, so that the entire shell may be collapsed and laid flat for the purpose of economizing space in shipment or storage.

Various hinge-joints may be devised to unite the ends and sides of the shell, but those herein shown are the result of having curled vertical edges *b* of said ends loosely engage like edges *c* of said sides. To prevent dislodgment of the shell ends the edge curls thereof may be cut away for a certain distance from the top and the adjacent exposed portions of the side curls laid flat, this structural detail being clearly illustrated in Figs. 4 and 5. One of the shell sides is provided with the usual opening and a hinged door C for the same. An ordinary turn-catch D is employed to hold the door in closed position. The hinge-joint connecting the shell

and door may be similar to those described in connection with the ends and sides of said shell or of such construction found best suited to the purpose. The lower edges of the shell sides are herein shown as being flanged inward to form supports for a detachable bottom E, one of these supports being in detail, Fig. 6. I also provide a detachable top F for the shell. The shell and its detachable top may be lined, as herein shown, so as to obtain the ventilating-flues or air-spaces common in some grades of ovens, and in such a case the ends G of the lining are preferably joined to the door side of said shell by hinge-joints similar to those already described or such others as may be devised, it being shown in detail, Fig. 5, that it is convenient to curl the vertical boundaries of the door-opening and loosely engage these curls *e* with other curls *f*, pertaining to said ends of the lining. The side H of the shell-lining is in hinge-joint connection with the ends G, the latter joints being similar to others above specified and embodying curls *g*, loosely engaging other curls *h*, the former curls being formed on strips riveted to said side of the lining, as shown in Fig. 2.

The lining I of the top F has its longitudinal edges turned up to form flanges *j*, that are seamed to edges of said top, and, as herein shown, there are spaces intermediate of said flanges and the seams for the engagement of the upper edges of the shell sides when the oven is set up. If the lining I be omitted, the longitudinal edges of the top F will be turned down to come outside the shell.

In a lined oven the ends G of the shell-lining are provided with rack-supports J and other supports K for the detachable bottom L of said lining. The supports J K may be right-angle strips of sheet metal riveted in place, as is common practice in the art to which my invention belongs; but I may find it preferable to employ supports similar to the one illustrated in Fig. 7, the latter being a sheet-metal strip having a depending acute-angle flange that bears against the lining to act as a brace, more or less of the horizontal portion of the strip or support proper being run through a slit in said lining and turned parallel to the same, thus forming a lock. By utilizing supports similar to the one just de-

scribed I avoid the labor, time, and expense of riveting.

While I have shown and described a lined sheet-metal oven, the lining may be omitted, as is the usual custom in manufacturing certain grades of the commodity, and in such a case the shell is provided with the supports J. (Herein shown as joined to the lining.) It is also to be understood that interior supports similar to the one shown in Fig. 7 are applicable to other than knockdown sheet-metal ovens. The customary pivotal bails or handles M are herein shown connected to the ends of the shell portion of the oven.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sheet-metal oven comprising a collapsible shell provided with a collapsible lining, a detachable shell-bottom, a detachable lining-bottom, and a detachable top having a lining.

2. A sheet-metal oven comprising a shell having its ends and sides in hinge-connection, a lining consisting of end-pieces in hinge-connection with a side of the shell, a side likewise joined to the end-pieces, and a detachable bottom; a detachable bottom for the shell, and a detachable shell-top having a lining.

3. A sheet-metal oven comprising a collapsi-

ble shell having inturned flanges, a detachable bottom that rests on the flanges, and a detachable top.

4. A sheet metal oven comprising a shell having the vertical edges of its ends and sides in the form of curls, those of the ends loosely engaging those of the sides, a shell-lining consisting of end-pieces provided with vertical edge curls loosely engaging curls on the shell, a side in like connection with said end-pieces, and a detachable bottom; a detachable bottom for the shell, and a top detachably engaging said shell.

5. An oven provided with interior supports, each in the form of an acute angle device having more or less of a horizontal portion thereof run through the adjacent portion of said oven and extended parallel thereto.

6. A sheet-metal oven comprising a collapsible shell, and a collapsible lining in hinge-connection with the shell.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

AUGUST LINDEMANN.

Witnesses:

N. E. OLIPHANT,
HENRY DANKERT.