A. WILSON & A. O. AHLENIUS.

BAKERS' OVEN.

No. 193,360. Patented July 24, 1877.

Fig. 1.

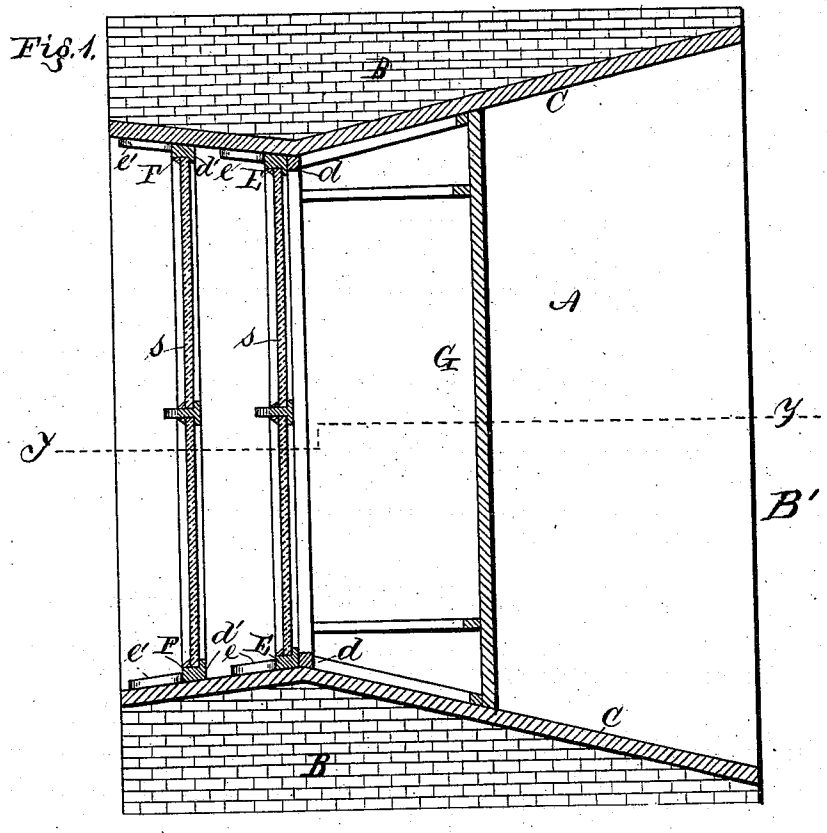
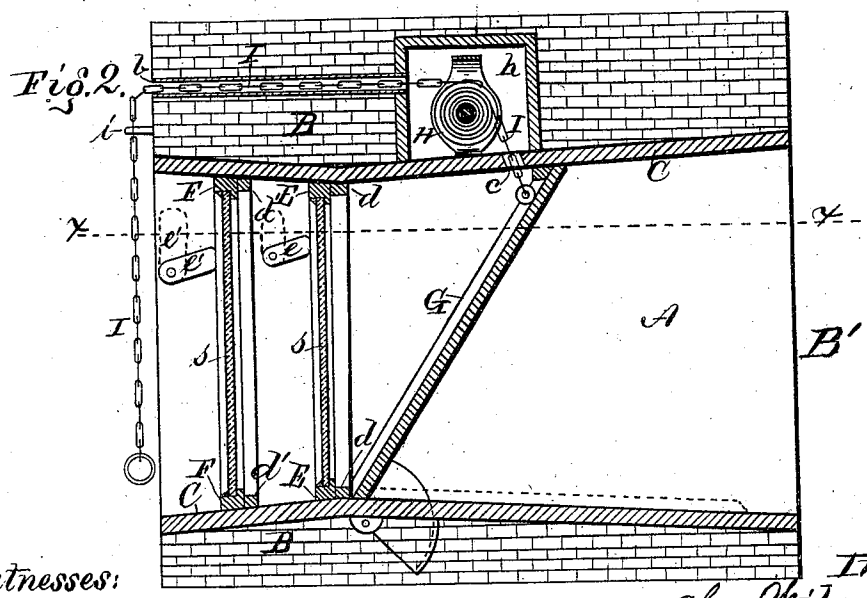


Fig. 2.



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UNITED STATES PATENT OFFICE.

ALEXANDER WILSON AND ADAM O. AHLENIUS, OF GALESBURG, ILLINOIS.

IMPROVEMENT IN BAKERS' OVENS.

Specification forming part of Letters Patent No. **193,360**, dated July 24, 1877; application filed January 20, 1877.

To all whom it may concern:

Be it known that we, ALEXANDER WILSON and ADAM O. AHLENIUS, of Galesburg, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Bakers' Ovens; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in bakers' ovens, and consists, first, in improvements in the manner of mounting or seating transparent media in openings in the walls of bakers' ovens; second, in the use of a hinged partition between the transparencies and the interior of bakers' oven, hinged within the openings through the oven-walls, for the admission of light, and so arranged that it may be used to open or close said opening, and so seated in the opening that it may not be heated so as to warp it or affect its shape and efficiency in using it.

In the accompanying drawings, Figure 1 is a horizontal sectional view through a portion of the wall of a baker's oven, and a construction embodying my invention, and in the line *x x* in Fig. 2. Fig. 2 is a vertical sectional view in the line *y y* in Fig. 1.

The same letter indicates the same part in the different views in the drawings.

Letter A represents an opening in the wall B of an ordinary baker's oven, which opening may be of any desired shape, and is preferably lined with a casing, C. The opening A is also preferably enlarged at both ends, as plainly shown in the drawings.

Surrounding the opening A, at its contracted portion, are ledges *d*, against which a frame, E, may be placed and held by cams or buttons *e*, hinged to the casing C. Exterior to the ledges *d* are placed another similar set of ledges, *d'*, against which a frame, F, is held by buttons *e'*.

The frames E and F are both supplied with mica, glass, or other suitable transparent media, and may be readily and easily removed by turning the buttons *e e'* into the position shown by dotted lines in the drawings. The frame E, being smaller than the frame F, may be removed through the ledges to which the frame F is secured.

The frames E and F are seated near the outer side of the oven-wall, so as to leave the greater portion of the opening A between them and the interior B' of the oven.

G is a partition, hinged at its lower side in the bottom of the casing C, so that when it is turned up, as shown by full lines in the drawings, it will close the opening through the casing C, and when turned down, as shown by dotted lines at Fig. 2, it will allow light to pass through the opening into the interior of the oven, and is so seated, as shown, that in either case it is removed from the interior of the oven-wall and from the intense heat, which is liable to warp its shape and destroy its efficiency.

H is a pulley, seated in a recess, *h*, in the oven-wall, and over the casing C.

I is a chain, connected at one end to the hinged partition G, and extends through a hole, *c*, in the casing C, over the pulley H, and outward through a duct, *b*, in the oven-wall, where it hangs convenient to be taken hold of to raise the hinged partition G, to prevent the passage of smoke or steam to the transparencies when desired, or to lower it to admit light to the oven when desired. It may be held elevated by engaging the chain I with a pin, *i*.

What we claim as new, and desire to secure by Letters Patent, is—

1. The frames E and F, ledges *d d'*, and buttons *e e'*, arranged to operate with the opening A in the wall of a baker's oven, substantially as and for the purpose specified.

2. The hinged partition G, seated in the opening A, as described, and arranged to operate with the transparent media in the frames E and F, and with an operating chain, I, substantially as described, and for the purpose specified.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

ALEXANDER WILSON.
ADAM O. AHLENIUS.

Witnesses:
THOS. MCKEE,
P. R. RICHARDS.