

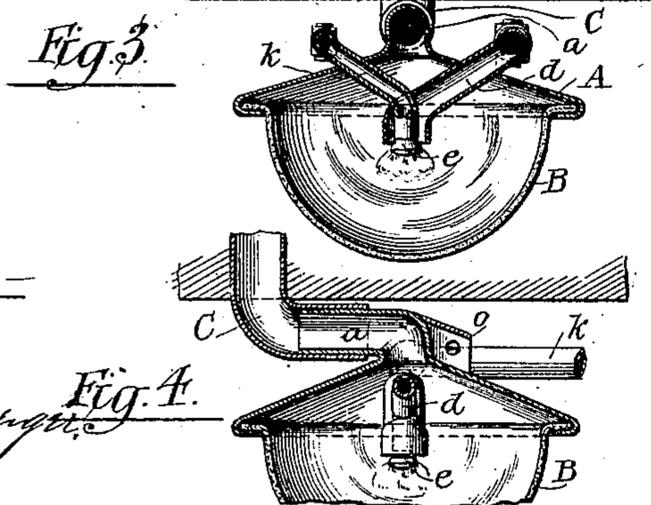
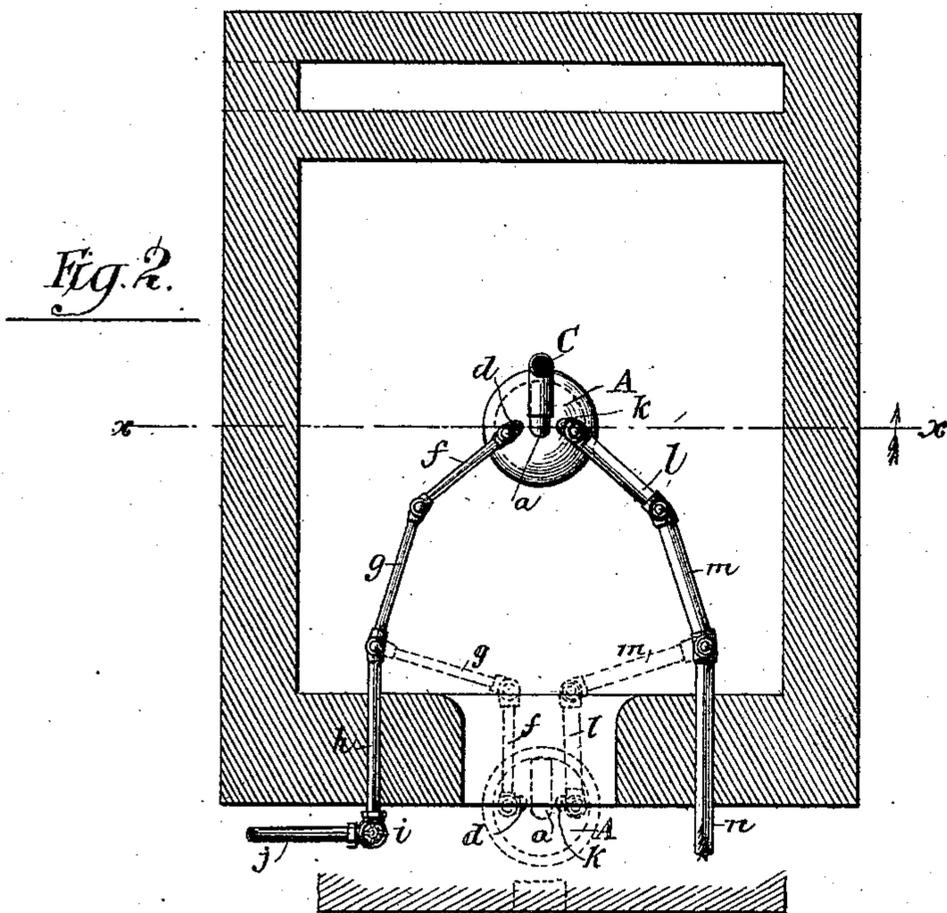
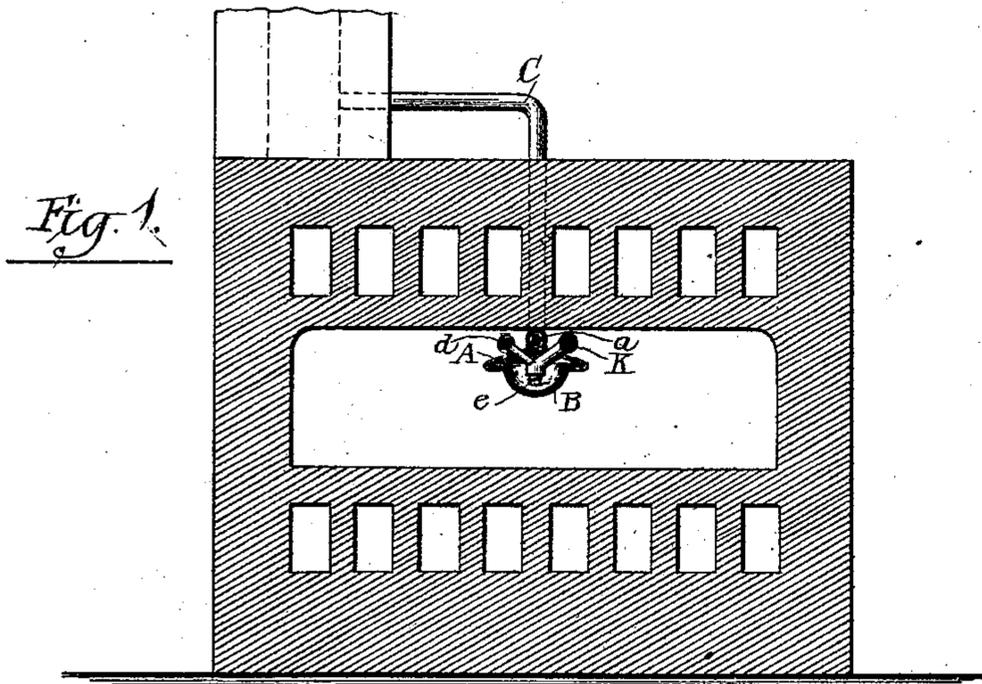
(No Model.)

E. A. C. PETERSEN.

ILLUMINATING DEVICE FOR BAKERS' OVENS.

No. 354,807.

Patented Dec. 21, 1886.



WITNESSES:—

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UNITED STATES PATENT OFFICE.

EDUARD A. C. PETERSEN, OF CHICAGO, ILLINOIS.

ILLUMINATING DEVICE FOR BAKERS' OVENS.

SPECIFICATION forming part of Letters Patent No. 354,807, dated December 21, 1886.

Application filed May 18, 1886. Serial No. 202,576. (No model.)

To all whom it may concern:

Be it known that I, EDUARD A. C. PETERSEN, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Illuminating Devices for Bakers' Ovens, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has for its object to provide in bakers' ovens a central light that will illuminate the entire oven for better inspection of the bakings; and it consists of a gas-jet lantern suspended from the central part of the ceiling of the oven and connected with a gas-pipe and air-supply pipe, and with an escape-pipe for the products of combustion, so arranged that the lantern can be moved to the front for cleaning and lighting without disconnecting the gas and air supply pipes, all as will be hereinafter more fully described and specifically claimed.

In the accompanying drawings, Figure 1 represents a transverse vertical section on line *x x* in Fig. 2, and Fig. 2 a sectional plan, of a baker's oven provided with my illuminating device; Fig. 3, a transverse vertical section; and Fig. 4 is a transverse section of the lantern in a plane at right angles to that of Fig. 3.

Corresponding letters in the several figures of the drawings designate like parts.

The lantern consists of a conical metal crown-plate, A, to the edge of which is connected the rim-flange of a semispherical glass, B. Upon the apex of crown-plate A is formed or otherwise rigidly secured an elbow-tube, *a*, which enters and forms a telescopic joint with the elbow end of a pipe, C, projected through the top of the oven and leading into the chimney for carrying off the products of combustion. The elbow-tube *a*, thus engaged with pipe C, affords a firm support for the lantern, easily disconnected for removing such lantern.

Through one side of crown-plate A is projected and rigidly secured therewith the gas-pipe *d*, diagonally bent toward the center of the lantern, where, to its end, it has a downwardly-pointing gas-burner, *e*. The exterior end of this gas-pipe *d* is pivotally coupled to pipe-section *f*, which again is pivotally coupled to pipe-section *g*, and that again to pipe *h*, projected through the front wall of the

oven, where it has a gas-cock, *i*, and is connected with the gas-supply pipe *j*. Through the opposite side of crown-plate A is projected and rigidly secured therewith a larger pipe, *k*, also diagonally bent to meet pipe *d*, with its end inclosing the end of such pipe *d*, and providing an annular outlet surrounding burner *e*. The exterior end of this pipe *k* is pivotally coupled to pipe-section *l*, which again is pivotally coupled to pipe-section *m*, and that again to pipe *n*, projected through the front wall of the oven at the opposite side of the door of the same, as where the gas-pipe *h* is placed. The crown-plate A is also provided with a socket, *o*, for inserting and detachably coupling a rod by which to move the lantern to the front for cleaning and lighting, and by which to replace and suspend it again to pipe C, and an opening with a suitable door or lid may be arranged in such crown-sheet, through which to ignite the gas-jet.

As will be readily seen, the gas-jet is supplied with the necessary atmospheric air through pipe *k*, *l*, *m*, and *n*, to enable its clear burning, such air being drawn in by the suction caused from the draft of the chimney through pipe C, that at the same time carries off the products of combustion, and the gas-jet can be regulated by cock *i* from the front of the oven.

The lantern can be readily moved in position (shown by dotted lines in Fig. 2) for cleaning and lighting without disconnecting the gas and air pipes, which, being composed of swivel-jointed sections, will readily accommodate themselves to the changeable positions of the lantern.

A lantern thus arranged will illuminate every part of the oven for the ready inspection of the bakings from the door, and such lantern being made as much as possible hermetic, it will not draw away from nor supply any gases or vapor to the oven that might interfere with the perfect working of the same.

What I claim is—

1. A lamp for use in ovens and analogous situations, consisting of the crown-plate and glass portion, as described, an exhaust-pipe, *a c*, and gas and air pipes, substantially as described.

2. The combination of the oven, its chimney, and the lantern, comprising crown-plate A,

glass B, bent exhaust-pipe *a*, the flexible gas and air pipes leading from without the oven, and the pipe *c*, leading to the chimney.

3. A hermetic lantern for the interior of
5 bakers' ovens, connected with flexible gas and air supply pipes, and with an exhaust-pipe leading into the chimney, substantially as set forth.

4. A lantern for the interior of bakers'
10 ovens, consisting of crown-plate A and convex glass B, and provided with elbow-shaped ex-

haust-pipe, forming a telescopic connection with pipe C, that leads to the chimney, and with flexible gas and air supply pipes, substantially as and for the purpose set forth. 15

In testimony whereof I affix my signature in presence of two witnesses.

EDUARD A. C. PETERSEN.

Witnesses:

ANTON SCHOENINGER,
HARRIS W. HUEHL.