

(No Model.)

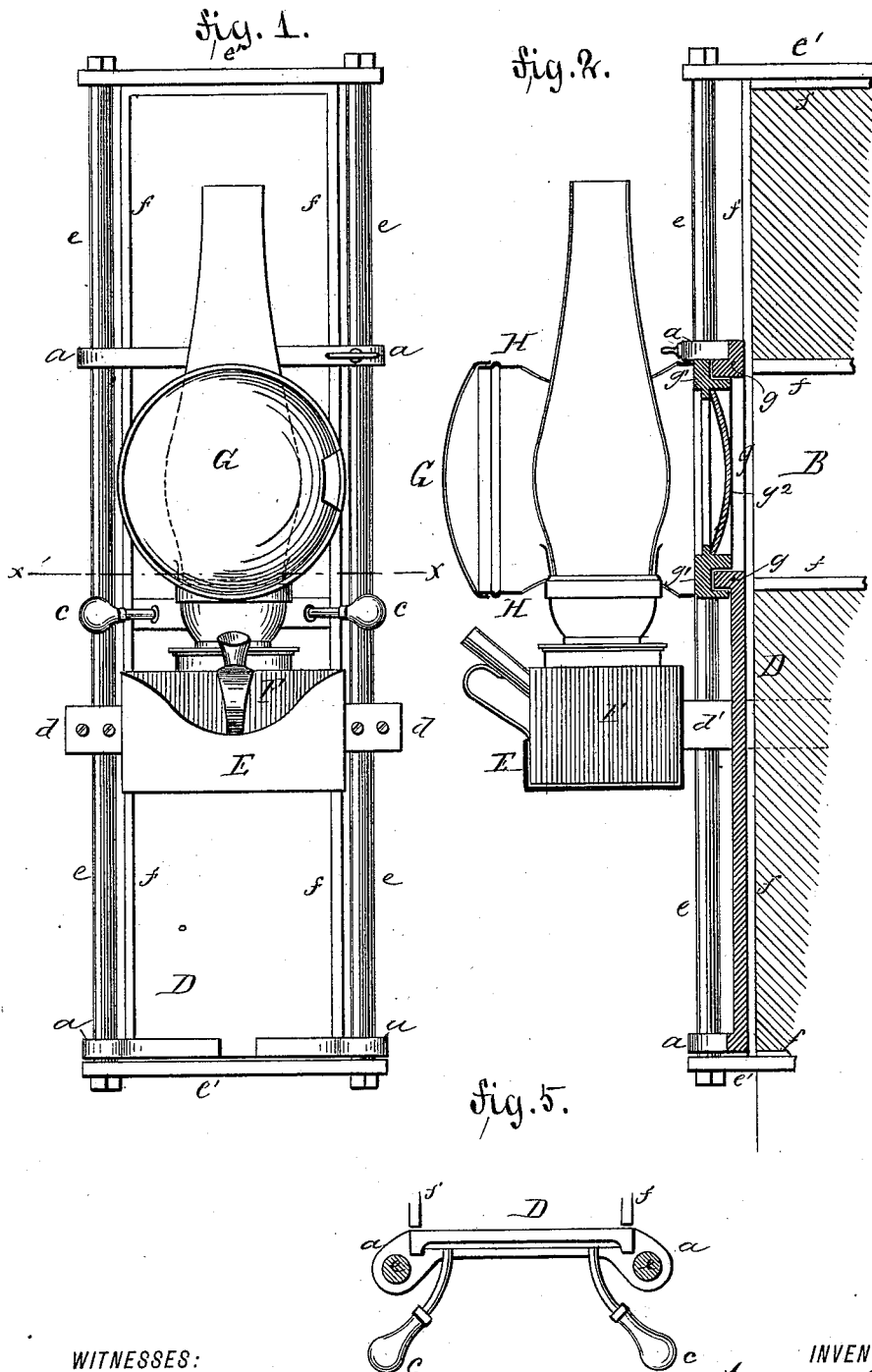
2 Sheets—Sheet 1.

A. NESTLEN.

LIGHTING AND CLOSING DEVICE FOR BAKERS' OVENS.

No. 347,953.

Patented Aug. 24, 1886.



WITNESSES:

For H. Rosenbaum  
Martin Petry.

INVENTOR

Adolf Nestlen  
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ATTORNEYS.

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fig. 3.

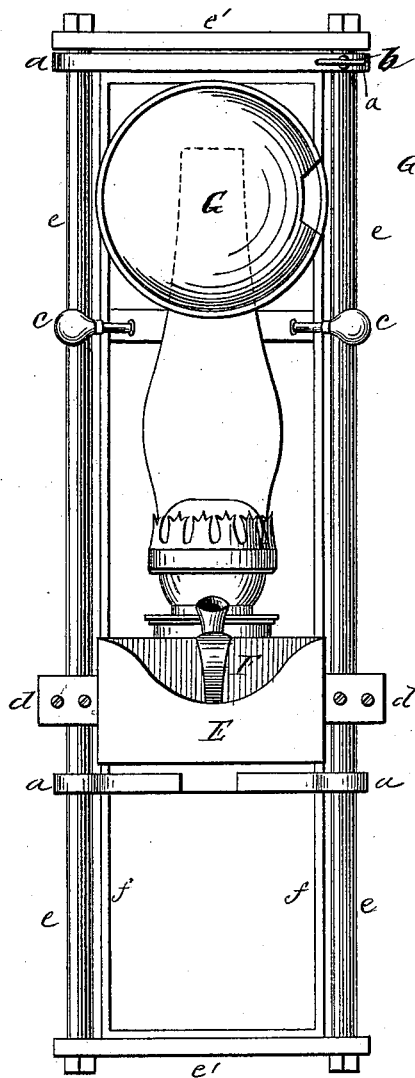


fig. 4.

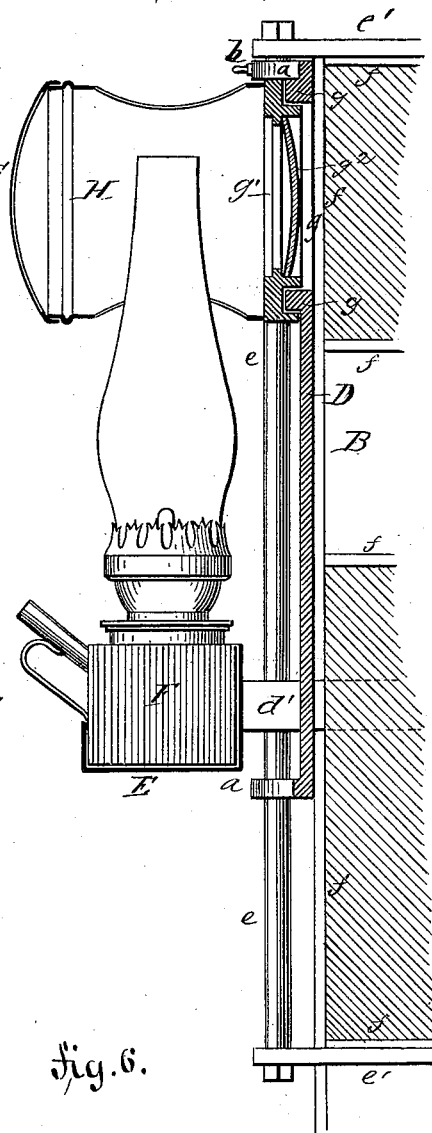
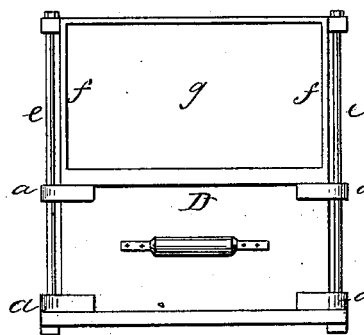


fig. 6.



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# UNITED STATES PATENT OFFICE.

ADOLF NESTLEN, OF FREUDENSTADT, WÜRTEMBERG, GERMANY.

## LIGHTING AND CLOSING DEVICE FOR BAKERS' OVENS.

SPECIFICATION forming part of Letters Patent No. 347,953, dated August 24, 1886.

Application filed September 17, 1885. Serial No. 177,323. (No model.) Patented in Germany June 5, 1885, No. 33,570; in Belgium September 9, 1885, No. 18,789; in Austria-Hungary November 7, 1885, No. 29,864 and No. 58,106, and in France November 23, 1885, No. 170,668.

*To all whom it may concern:*

Be it known that I, ADOLF NESTLEN, of Freudenstadt, in the Kingdom of Würtemberg and Empire of Germany, have invented certain new and useful Improvements in Lighting and Closing Devices for Bakers' Ovens, (for which I have obtained Letters Patent in Germany No. 33,570, dated June 5, 1885; in France No. 170,668, dated November 23, 1885; in Austria-Hungary No. 29,864 and No. 58,106, dated November 7, 1885, and in Belgium No. 18,789, dated September 9, 1885.) of which the following is a specification.

The invention relates to an improved device for lighting bakers' ovens in such a manner that the light can also be utilized for lighting the room in front of the oven; and the invention consists of the combination of a supporting-frame set into the oven-wall, and having forward-extending brackets and vertical guide-rods attached to said brackets.

In the accompanying drawings, Figures 1 and 2 represent a front elevation and a vertical transverse section of my improved lighting and closing device for bakers' ovens, showing the slide-plate lowered for lighting up the ovens. Figs. 3 and 4 are also a front elevation and a vertical transverse section of the same, showing the slide-plate raised and the light-opening closed. Fig. 5 is a horizontal section on line *x x*, Fig. 1; and Fig. 6, a front view of the supporting-frame and slide-plate for opening and closing the light-opening.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, *ff* represent a cast-metal supporting-frame, which is composed of two vertical and four transverse pieces, and which is securely set into the front wall of the oven, flush with the same. The transverse pieces are arranged as follows: one at the top, the second and third respectively above and below the light-opening *B* of the oven, and the fourth at the bottom of the frame *f*, as shown in Figs. 1, 2, and 4.

The frame *ff* is provided at the upper and lower ends with forward-extending bracket-plates *e' e'*, that serve to support two vertical guide-rods *ee*, on which a slide-plate, *D*, is guided by perforated corner-lugs *a a*. The slide-plate *D* fits closely to the face of the frame *ff*, so as to close the light-opening *B* of the oven as

tightly as possible. At the upper part of the slide-plate *D* is arranged a round opening, having an outwardly-projecting flange, *g*. To this flange is attached a ring-shaped frame, *g'*, that supports a glass window, *g''*. To the ring-shaped frame *g'* is further secured a sheet-metal shell, *H*, that has top and bottom openings for the chimney of the lamp by which the oven is lighted. The outer end of the shell or casing *H* is covered by a lid, *G*, which is polished at the inside, so as to act as a reflector for throwing the light through the glass window and light-opening *B* into the oven. The lamp *F* is supported in line with the light-opening by a holder, *E*, that is attached permanently by a strap, *d*, and angle-irons *d' d'* of the oven-wall. The slide-plate *D* is raised by means of handles *ee*, which are attached thereto, and provided with wooden knobs, as shown in Figs. 1, 3, and 5.

When the slide-plate *D* is raised, as shown in Figs. 3 and 4, it closes the light-opening *B*, and is retained in this position either by friction-springs (not shown in the drawings) or by a set-screw, *b*. (Shown in Figs. 3 and 4.) The shell *H* is thereby raised above the light, so that the same lights up the space in front of the oven. When the slide-plate *D* is lowered, the opening of the same is in line with the light-opening of the oven, so that the light of the lamp is thrown into the oven by the reflector, and the interior of the oven lighted up thereby. When it is desired to have the space in front of the oven temporarily lighted up, while the shell is in position around the lamp, the lid *G* of the shell *H* is removed. When no temporary light is required in front of the oven, the whole light is thrown into the same, so as to effectively light up the interior of the oven. The supporting-frame *ff* and slide-plate *D* may also be used without the light and reflecting-shell as a door, for opening or closing the fire-box, ash-pit, or other openings of the oven, in which case the slide-plate may be balanced by counter-weights in the usual manner.

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

1. The combination, with an oven-wall provided with an opening for the passage of light, of an illuminating device supported in

front of said opening, a slide for covering or uncovering said opening, a shell attached to said slide and adapted to surround said illuminating device on two opposite sides when said opening is uncovered by the slide, and a reflector supported by said shell diametrically opposite said opening, said reflector being removable, substantially as and for the purpose set forth.

10 2. The combination, with an oven-wall provided with an opening for the passage of light, of an illuminating device supported in front of said opening, a slide having a glass-covered aperture near one end adapted to register  
15 with said opening, means for raising or lowering said slide for covering or uncovering said opening, a shell attached to said slide and adapted to surround said illuminating device on two opposite sides when said opening is  
20 uncovered by the slide, and a reflector supported by said shell diametrically opposite said opening, substantially as and for the purpose set forth.

25 3. The combination, with an oven-wall provided with an opening for the passage of light, of an illuminating device supported in front of said opening, a slide for covering or uncovering said opening, means for guiding the slide, a set-screw in said slide adapted to bear

against the guides therefor and hold it in open or closed position, a shell attached to said slide and adapted to surround said illuminating device on two opposite sides when said opening is uncovered by the slide, and a reflector supported by said shell diametrically  
35 opposite said opening, substantially as and for the purpose set forth.

4. The combination, with an oven-wall provided with an opening for the passage of light, of an illuminating device supported in front  
40 of said opening, a slide for covering or uncovering said opening, handles secured to said slide near either side and adapted to straddle said illuminating device when the slide is  
45 moved, a shell attached to said slide and adapted to surround said illuminating device on two opposite sides when said opening is uncovered by the slide, and a reflector supported by said shell diametrically opposite  
50 said opening, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name in the presence of two subscribing witnesses.

ADOLF NESTLEN.

Witnesses:

CARL FISCHER,

FRIEDRICH BECKER.