

(No Model.)

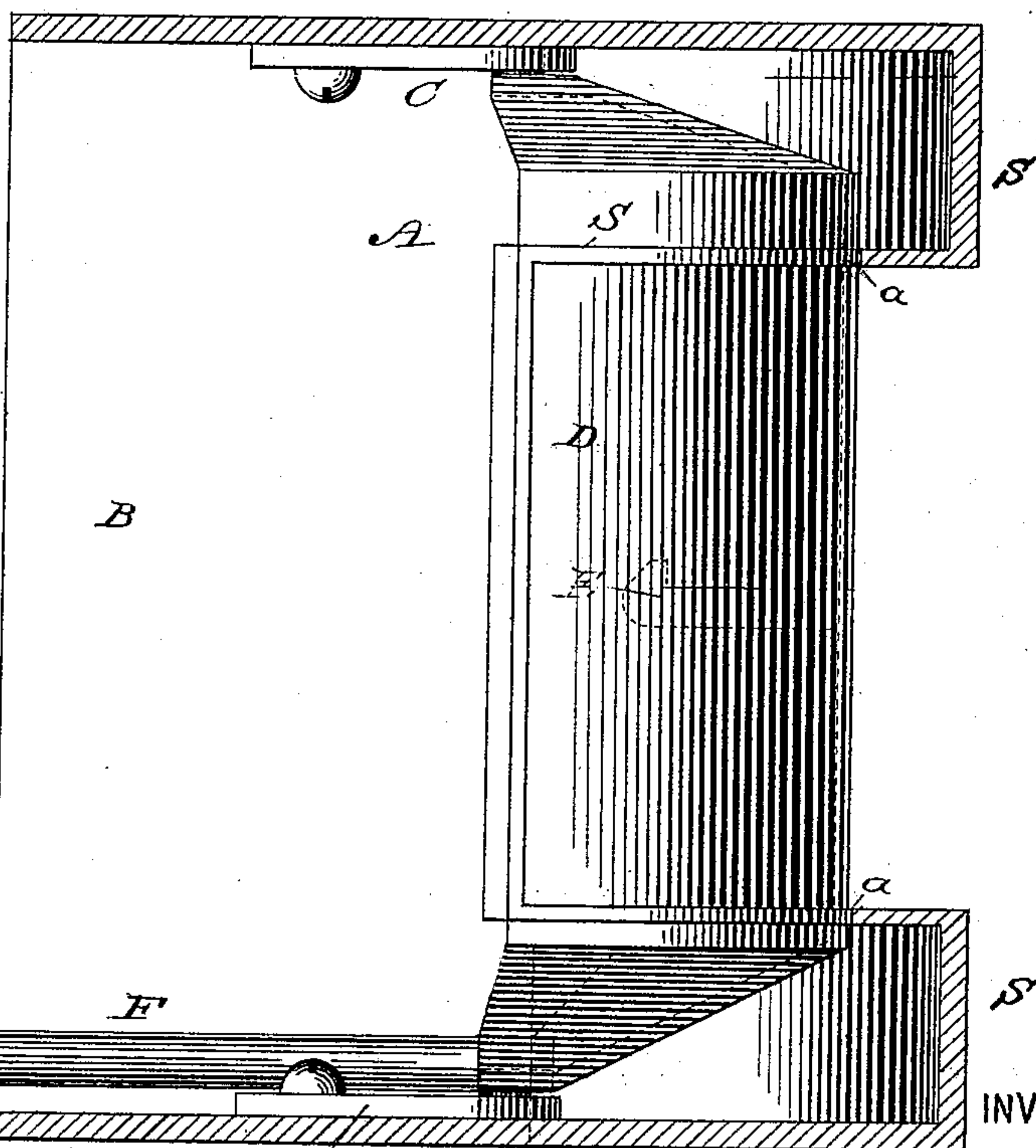
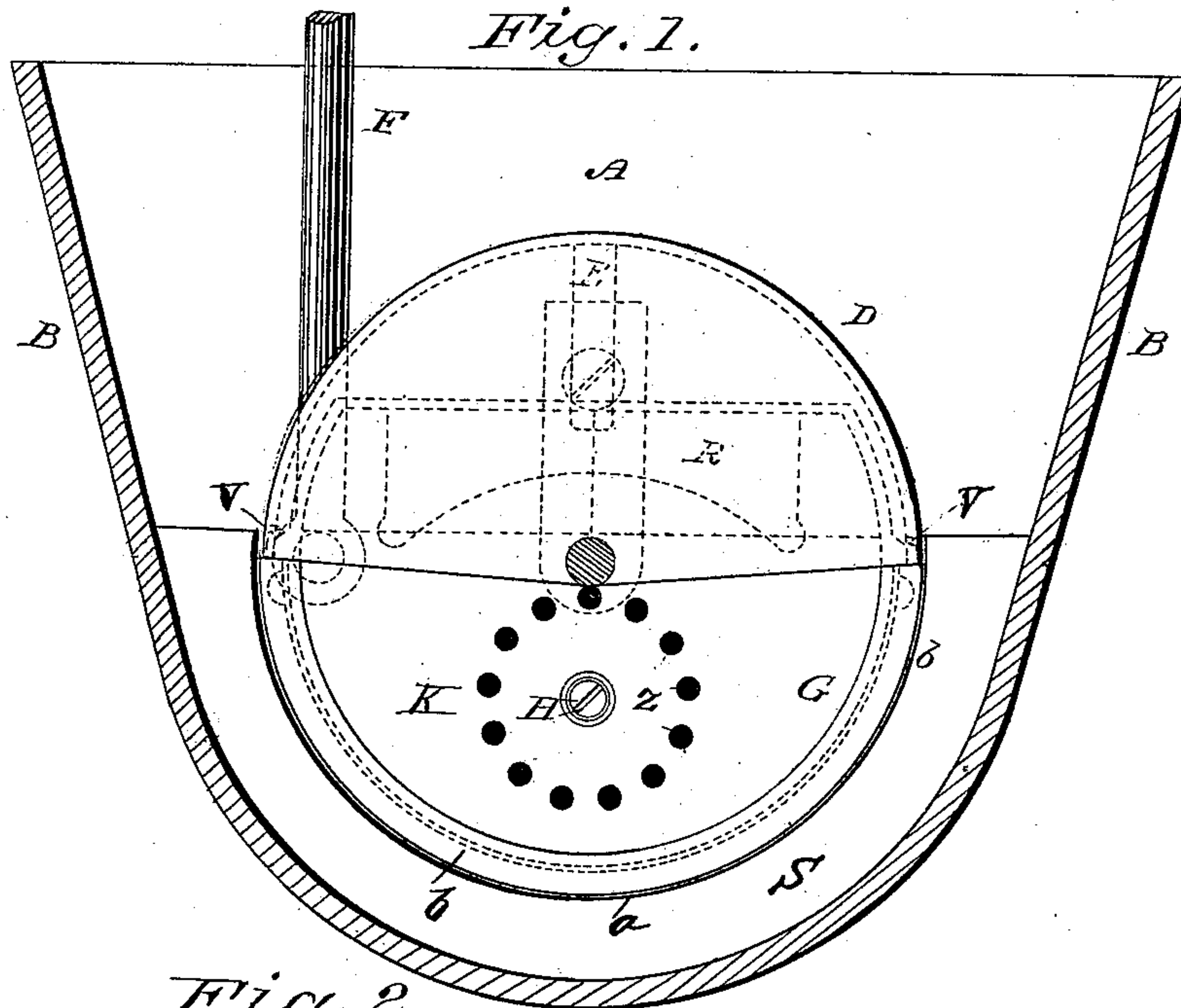
3 Sheets—Sheet 1.

F. H. VAN HOUTEN.

REFLECTOR LIGHT FOR BAKERS' OVENS.

No. 330,757.

Patented Nov. 17, 1885.



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(No Model.)

3 Sheets—Sheet 2.

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Fig. 3.

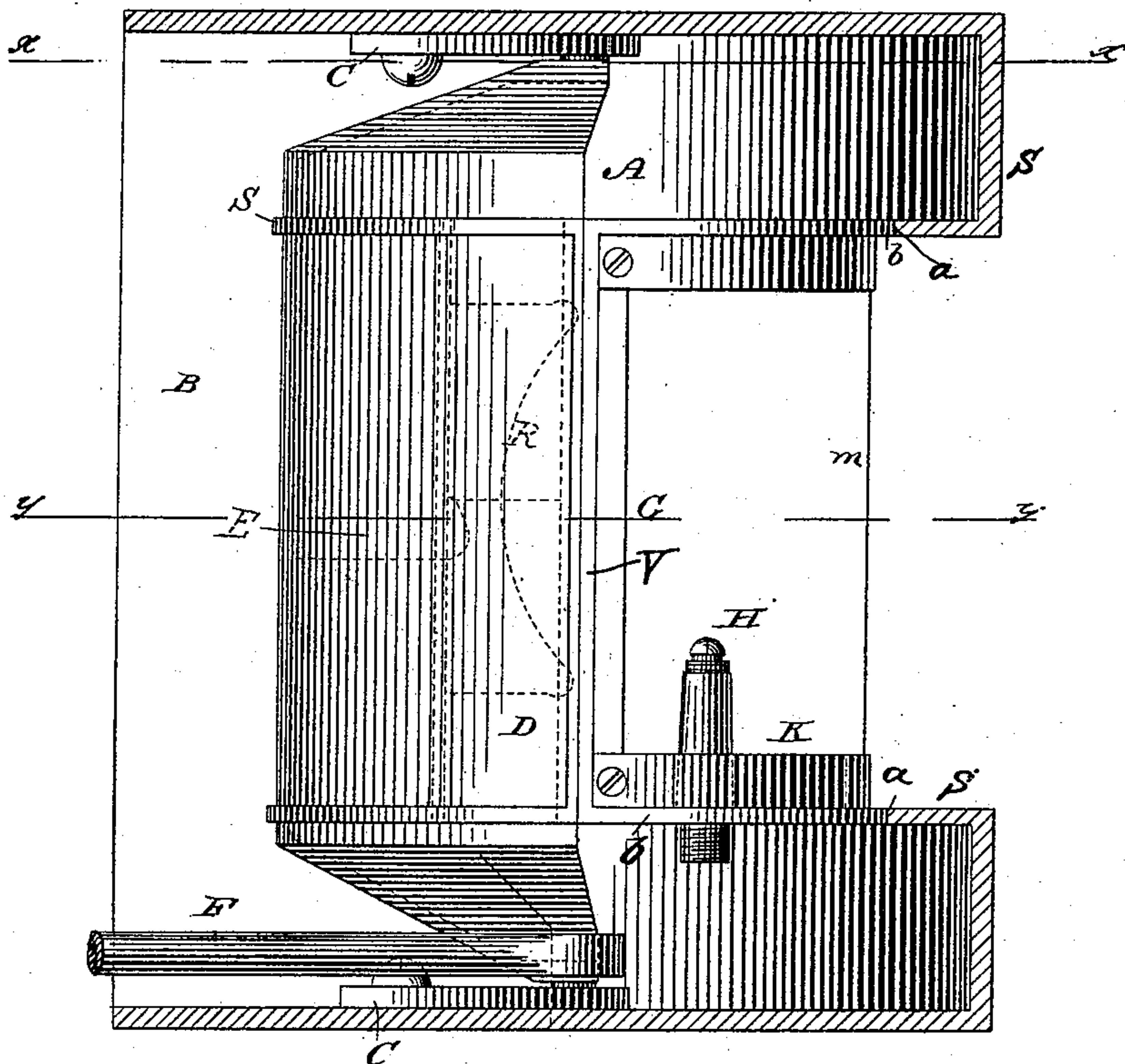
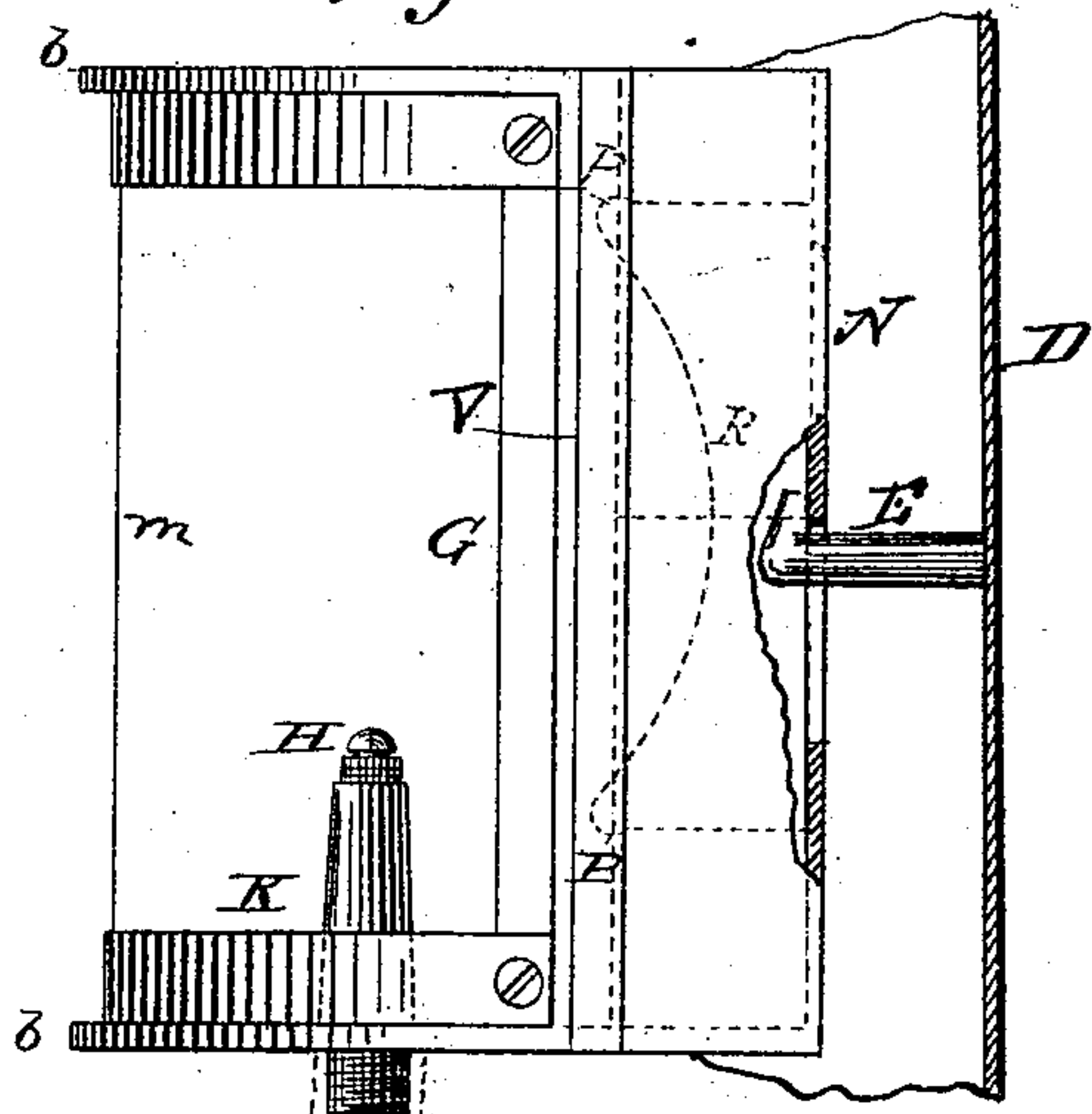


Fig. 4.



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Fig. 5.

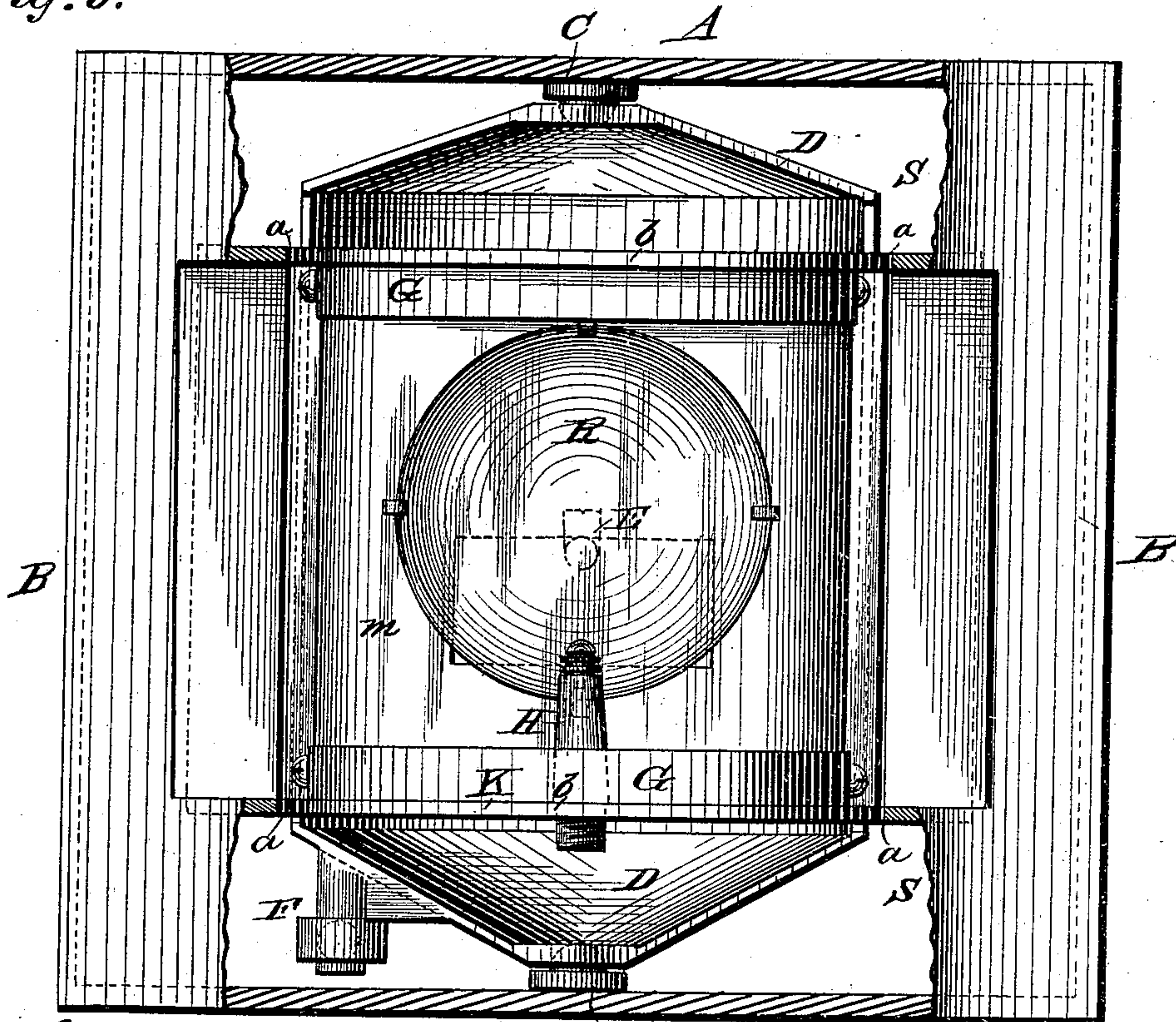
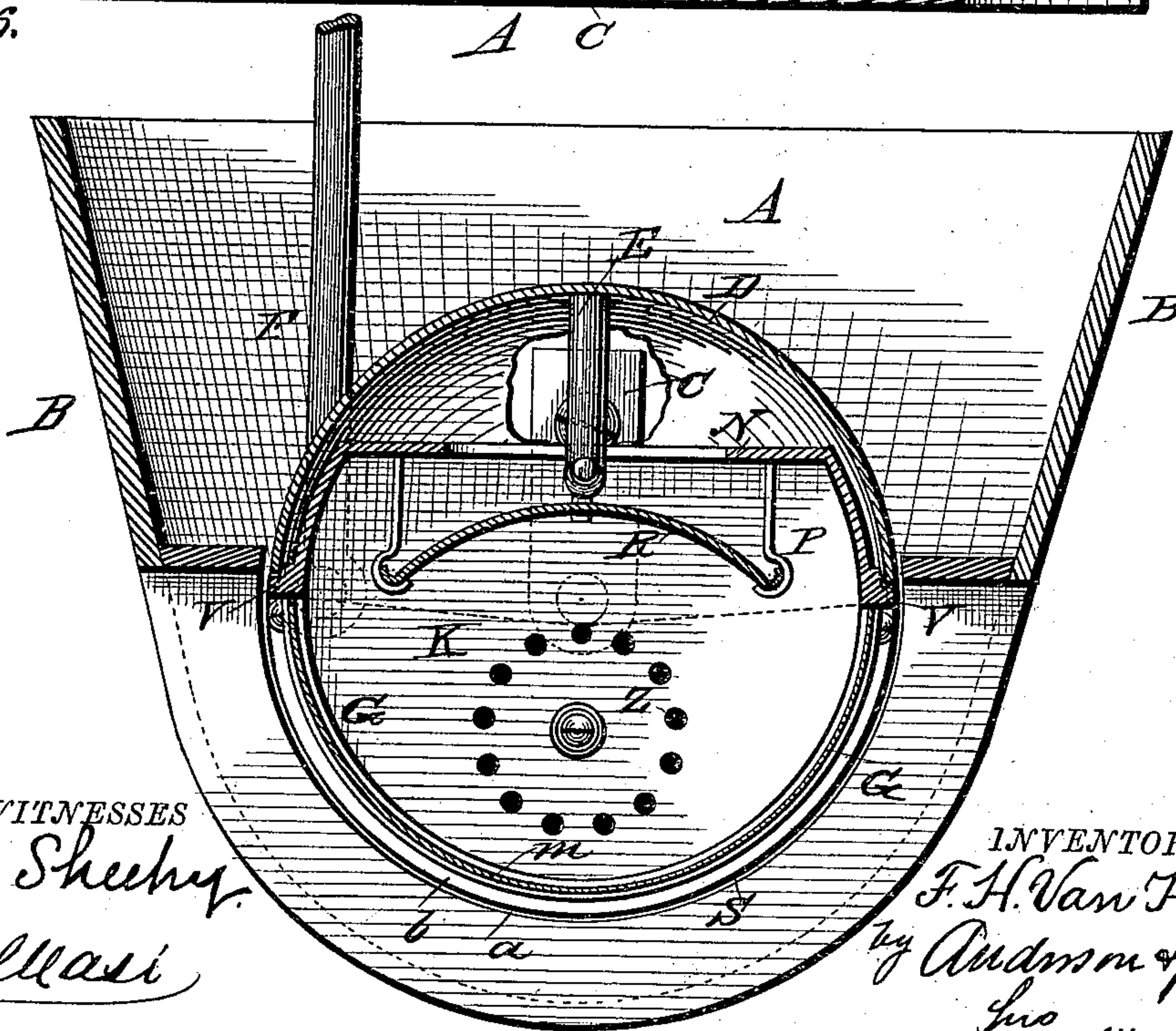


Fig. 6.



WITNESSES

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# UNITED STATES PATENT OFFICE.

FRANK H. VAN HOUTEN, OF MATTEAWAN, NEW YORK.

## REFLECTOR-LIGHT FOR BAKERS' OVENS.

SPECIFICATION forming part of Letters Patent No. 330,757, dated November 17, 1885.

Application filed April 15, 1885. Serial No. 162,326. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK H. VAN HOUTEN, a citizen of the United States, residing at Matteawan, in the county of Dutchess and State of New York, have invented certain new and useful Improvements in Reflector-Lights for Bakers' Ovens; and I do declare the following to be a full, clear, and exact description of the invention, such as 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 or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a horizontal section of my invention, taken on the lines *xx* of Fig. 3. Fig. 2 is a vertical sectional view of the outer case, and Fig. 3 is a similar view showing the cut-off in position. Fig. 4 is a view of the lantern with its rear wall broken away and sectioned and applied to a section of the main case. Fig. 5 is a face view of the device, partly sectioned and partly broken away; and Fig. 6 is a sectional view taken on the lines 4 4 of Fig. 3.

This invention has relation to reflector-lights for bakers' ovens; and it consists in the construction and novel arrangement of devices, all as hereinafter set forth, and pointed out in the appended claims.

The object of this invention is to provide, in connection with a baker's oven, a reflector-light which can be readily turned to illuminate the interior of the oven when required, and when not needed can be easily turned outward therefrom, the opening in the oven-wall being closed whether the light be turned outward or toward the interior.

In the accompanying drawings, the letter A designates the outer case, which is usually made with its side walls, B B, somewhat converging, so that it will closely fit a tapering opening in the oven-wall at the side of the main door. The interior portion of this case is provided with bearings C C for the journals of a revolving semi-cylindrical door or cut-off, D, which is provided in its concavity with a projecting hook or catch, E. This revolving door is also provided with a pivoted handle, F, which is designed to extend outward beyond the oven-wall, and serves to enable the operator to turn said door with facility.

G indicates the lantern or jet carrying frame.

In the illustration a burner, H, is shown secured to the bottom K of this frame, and a length of flexible tubing, L, extends from said burner to the gas-supply. A lamp may be used in place of the gas-jet. The glass in the front of the lantern is indicated at *m*.

R is the concave reflector, which is attached to the solid back portion, N, of the lantern by means of suitable hooks or supports, P. In the back wall of the lantern is provided a vertical slot or bearing, which is adapted to engage the hook or catch E of the revolving door. When the revolving door is turned to rotate the lantern outward, the latter can be readily detached from the door for cleaning or other purpose. Vertical shoulders or bearings V are designed, when the lantern is in position and attached to the hook or catch, to engage the sides of the revolving door, so that the lantern will be held in a firm and steady manner thereto. Perforations Z in the base of the lantern serve to admit air to the flame. The main case A is formed in its front portion with flanges S, having semicircular inwardly-turned marginal portions *a*, adapted to fit neatly the upper and lower beads or bearings *b* of the lantern and revolving door, so that whether the lantern and door be turned inward or outward there will be no open air-passages into the oven to affect its temperature. When the door D is turned in one direction, its convex surface is presented toward the oven, closing the case A in front. At the same time the light is turned outward or away from the oven in position to be turned down or extinguished, as may be desired. When the position of the door is reversed by turning it on its bearings, the lantern is brought to the front or in position to illuminate the interior of the oven.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with an oven, of a case, and a cylindrical lantern having opaque and transparent portions, and pivoted centrally at top and bottom within said case, substantially as specified.

2. The case A, having the front flanges formed with inwardly-turned marginal portions *a*, in combination with the revolving

door or cut-off centrally pivoted to said case at top and bottom, and the lantern connected to said revolving door or cut-off, substantially as specified.

- 5 3. An oven-illuminator consisting of a main or outer case, a lantern-case journaled therein centrally at the top and bottom, and having a closed back and a front provided with mica or other transparent material, a reflector se-  
10 cured to the said back on the inner side, and

a burner arranged in the base thereof, the parts being arranged for joint operation so as to avoid opening the oven-door to throw the light therein.

In testimony whereof I affix my signature 15  
in presence of two witnesses.

F. H. VAN HOUTEN.

Witnesses:

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