(No Model.)

C. W. KOLB.

DOOR AND LIGHT FOR BAKERS' OVENS.

No. 598,941. Patented Feb. 15, 1898.

FIG. 3.

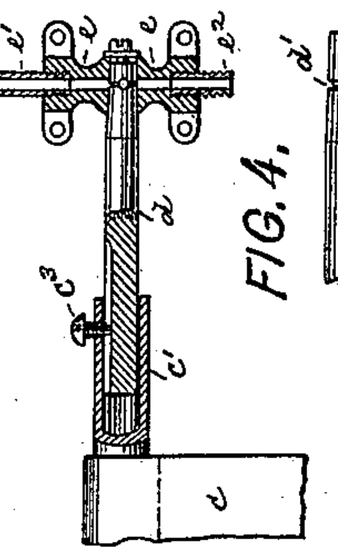


FIG. 4.

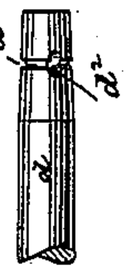


FIG. 5.

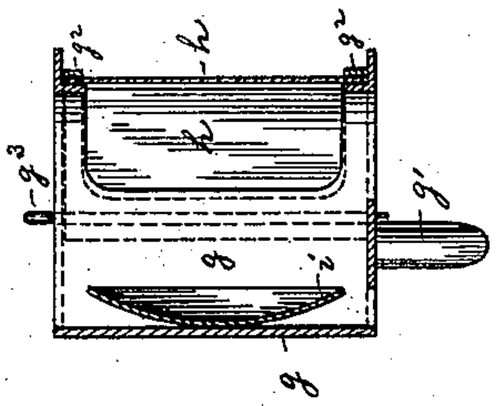


FIG. 1.

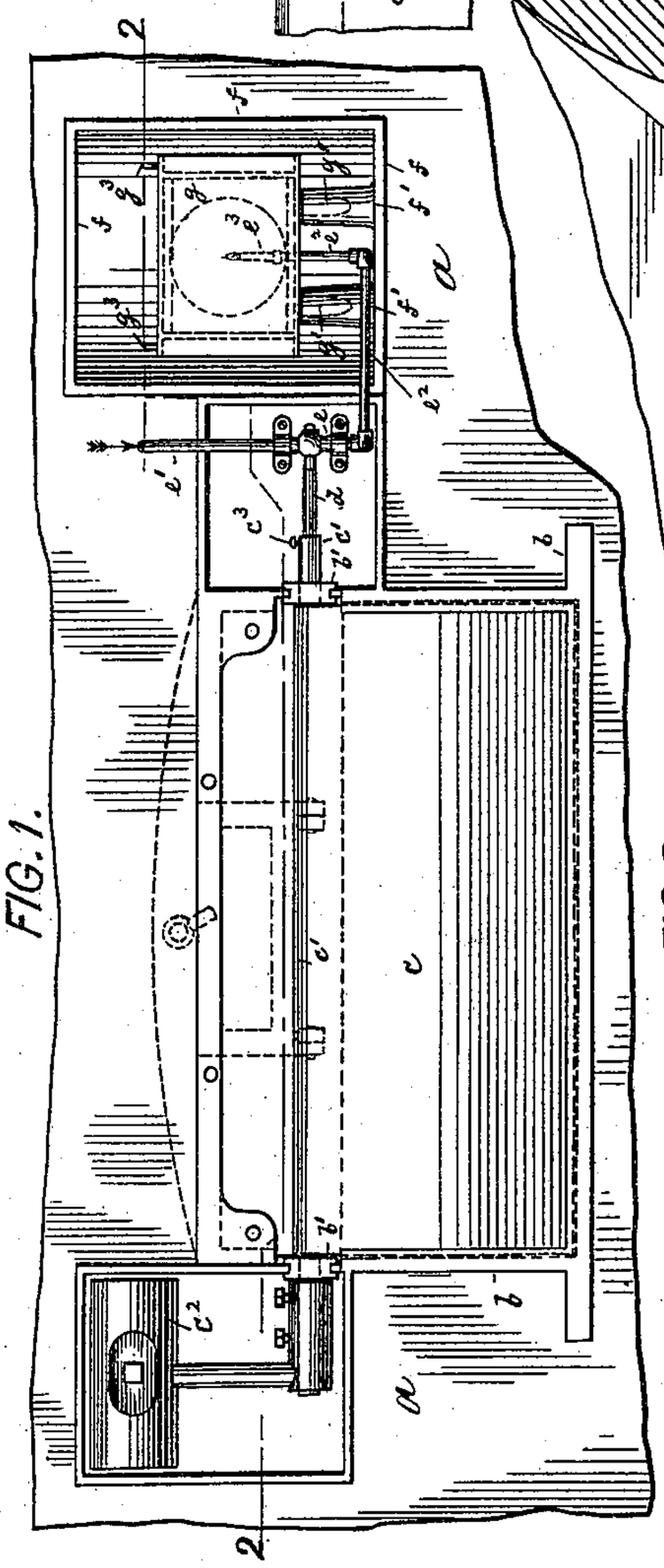
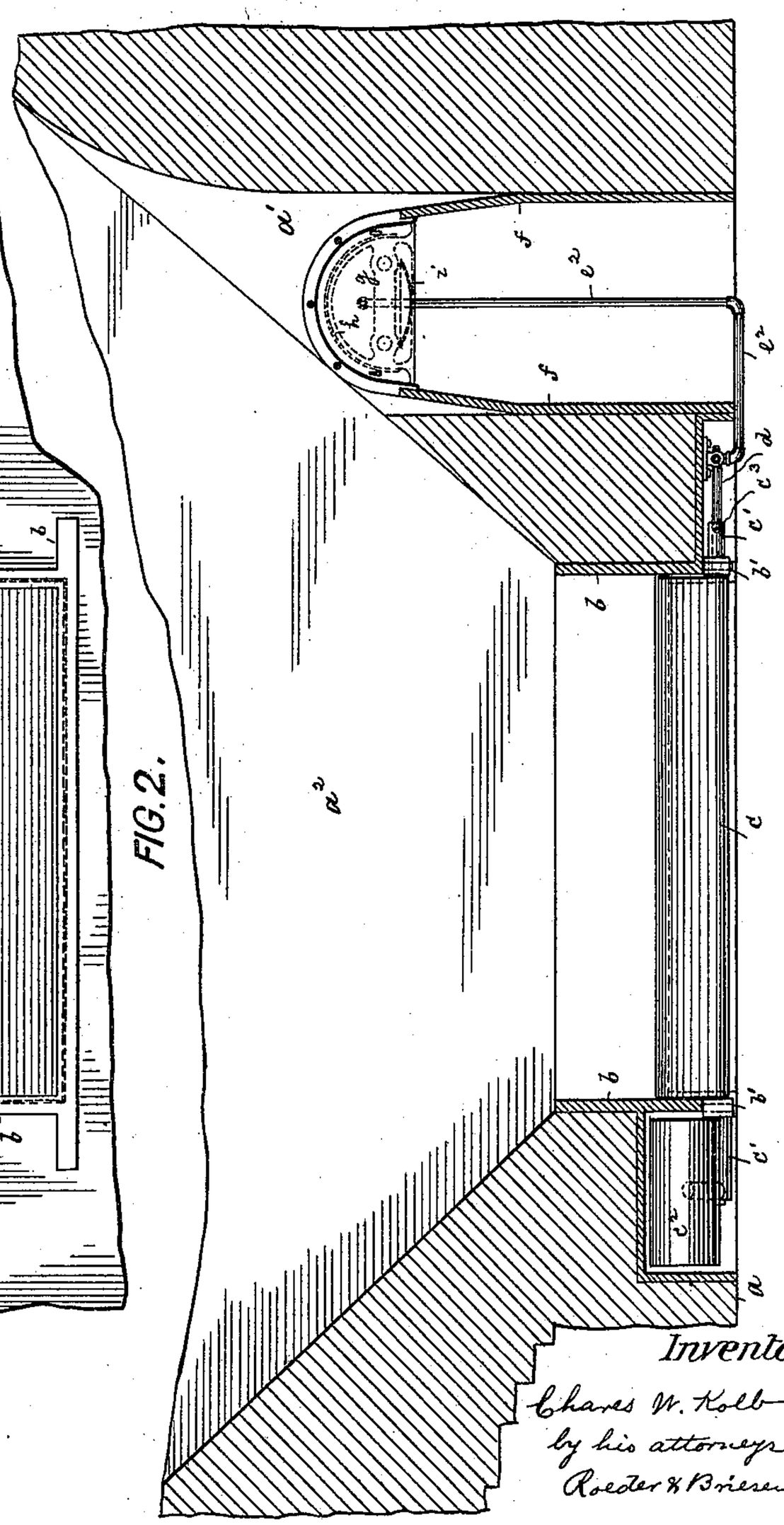


FIG. 2.



Witnesses:
John Becker.
William Miller

Inventor:
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UNITED STATES PATENT OFFICE.

CHARLES W. KOLB, OF PHILADELPHIA, PENNSYLVANIA.

DOOR AND LIGHT FOR BAKERS' OVENS.

SPECIFICATION forming part of Letters Patent No. 598,941, dated February 15, 1898.

Application filed October 15, 1897. Serial No. 655,297. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. KOLB, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Doors and Lights for Bakers' Ovens, of which the following is a specification.

This invention relates to an improved door for bakers' ovens and also to an improved construction of the light operated thereby.

It consists in the various features of construction fully pointed out in the claims.

In the accompanying drawings, Figure 1 is a front elevation of the oven door and light; Fig. 2, a horizontal section on line 2 2, Fig. 1; Fig. 3, a sectional detail of the connection between door-spindle and gas-pipe; Fig. 4, a detail of plug d, and Fig. 5 a vertical transverse section through the frame g.

The letter a represents the front wall of a baker's oven, into which is set a frame b, containing removable sliding bearings b' for the spindle c' of the door c, that closes the baking-chamber a^2. One end of this spindle carries the counterweight c^2, while the other tubular end of the spindle telescopes the grooved shaft of an elongated gas-plug d, removably connected thereto by clamp-screw c^3. The head of plug d is provided with a circumferential groove d', perforated, as at d^2, and in alinement with a fixed tubular socket e, connected to the gas-inlet pipe e' and the gas-outlet pipe e^2.

The outlet-pipe e^2 extends first horizontally along the front of the oven-wall, is then bent inward to enter a chamber a', that communicates with the baking-chamber a^2, and is finally bent upward to carry the burner e^3.

Within the chamber a' there is set a fixed outer frame f, which is open at the front and rear and is provided with sockets f', projecting upwardly from its base. These sockets receive pins g', depending from the base of a smaller removable frame g, set centrally within frame f. The frame g surrounds the burner e^3, and is provided with an open front closed by a curved mica window h, shown to be held in place by top and bottom bands g^2, which are in turn removably held in place by pins g^3. Back of the window h a reflector i is fitted within frame g.

When the oven-door c is closed, the groove d^2 of the plug d is in alinement with the gas-pipe and the light is turned on low. Upon opening the door the light will remain low until the perforation d^2 is brought into alinement with the gas-pipe, when the gas will be suddenly turned on full. Thus I obtain a sudden change from low into full light when the door is completely open, in contradistinction to an objectionable gradual increase of light during the opening of the door.

If it should be desired to remove the door c for cleaning purposes, &c., this can be readily done by loosening screw c^3, sliding the plug d into the tubular spindle c', and then drawing the sliding bearings b', with the door, outward.

To replace the mica window h, the frame g is lifted off the sockets f' and withdrawn from frame f, when access to the mica-holding devices g^2 g^3 is readily had.

It will thus be seen that by my invention I provide efficient means for removing the door, inspecting and replacing worn parts of the light, and operating the light by means of the door in such a manner that the light is suddenly turned on full when the door is open.

What I claim is—

1. The combination of an oven-door having a tubular spindle, with removable bearings supporting the same, a gas-plug telescoped by the spindle, and means for removably connecting the plug to the spindle, substantially as specified.

2. The combination in a baker's oven, of an outer frame f, having sockets projecting upwardly from its base, with an inner removable frame g, having depending pins that are adapted to engage the sockets, and with a window and reflector fitted to the inner frame, substantially as specified.

Signed at New York, in the county of New York and State of New York, this 14th day of October, A. D. 1897.

CHARLES W. KOLB.

Witnesses:
F. V. BRIESEN,
WILLIAM SCHULZ.