

E. BEAUCOUDRAY & E. STOLTZ.

ELECTRIC LAMP.

APPLICATION FILED OCT. 3, 1910.

990,514.

Patented Apr. 25, 1911.

2 SHEETS-SHEET 1.

FIG. 1.

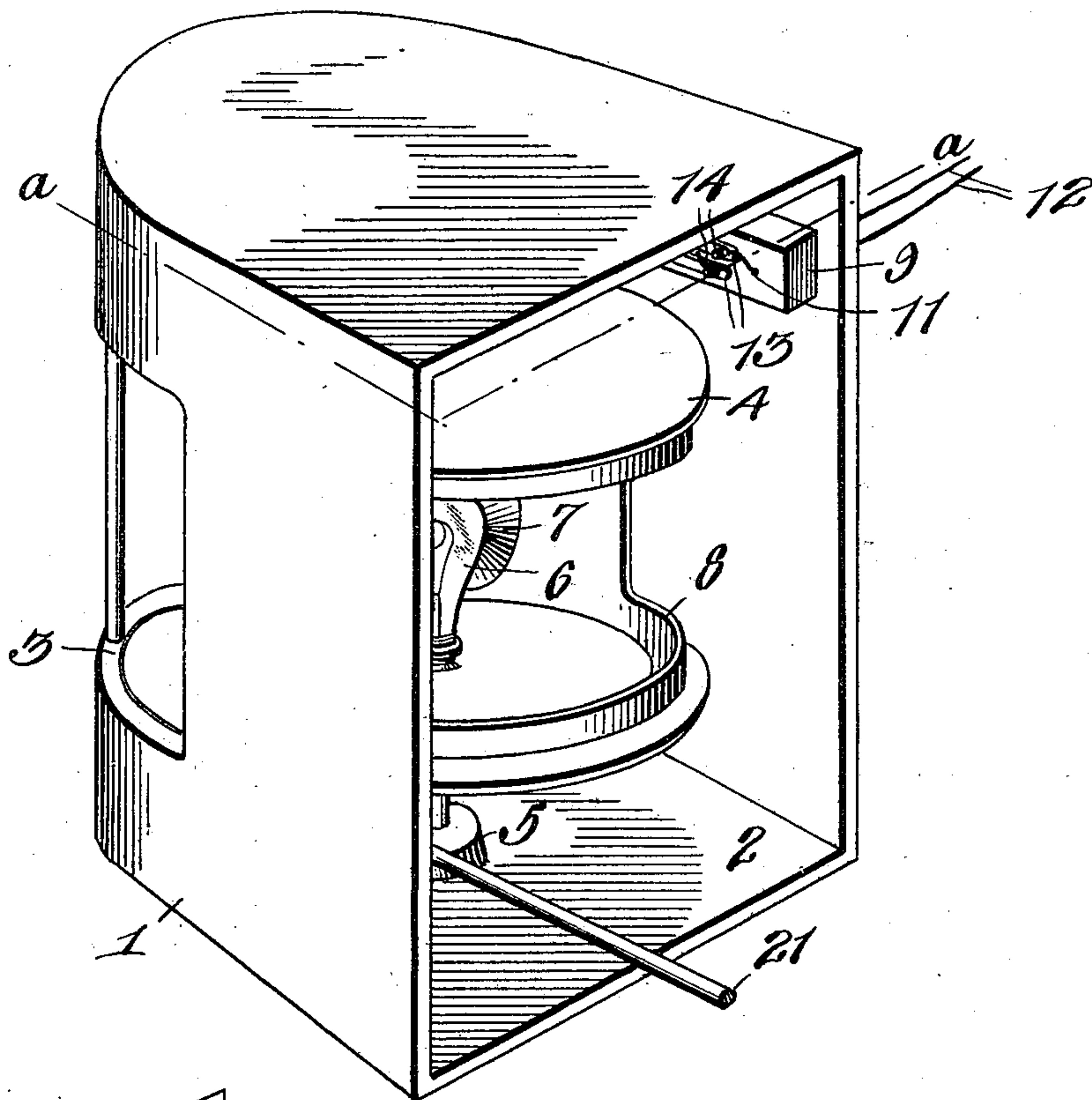
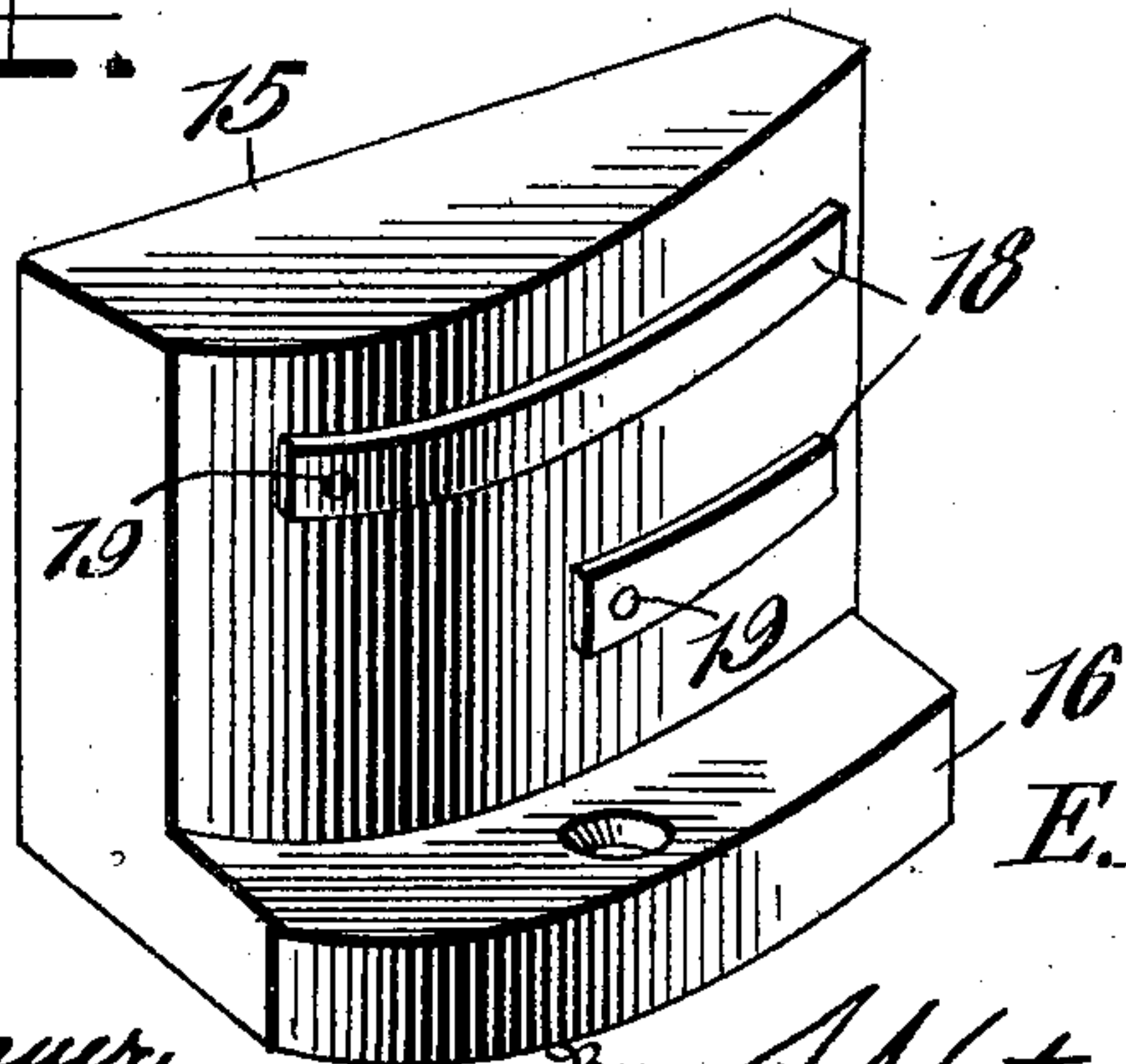


FIG. 4.



Witnesses

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2 SHEETS—SHEET 2.

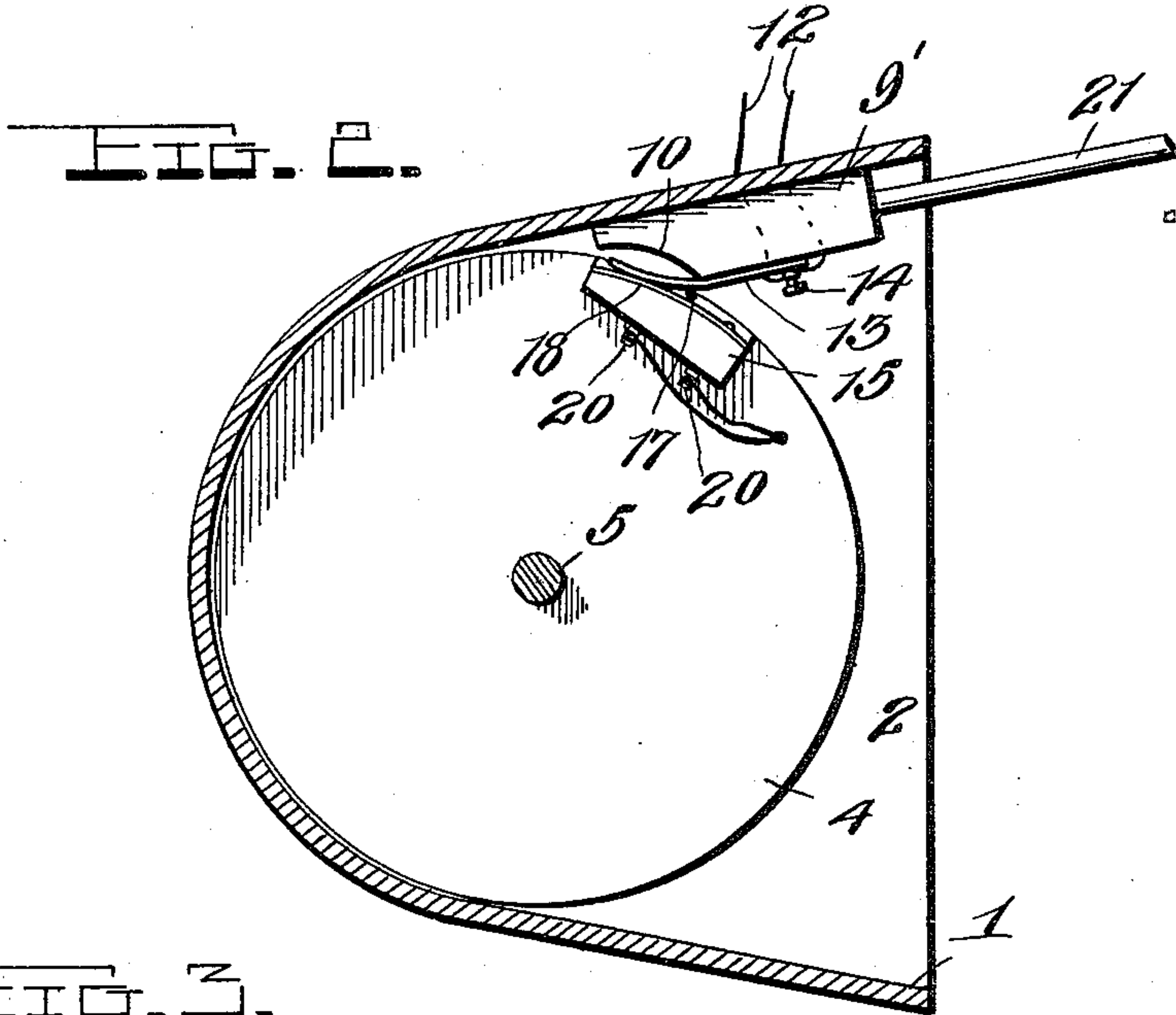
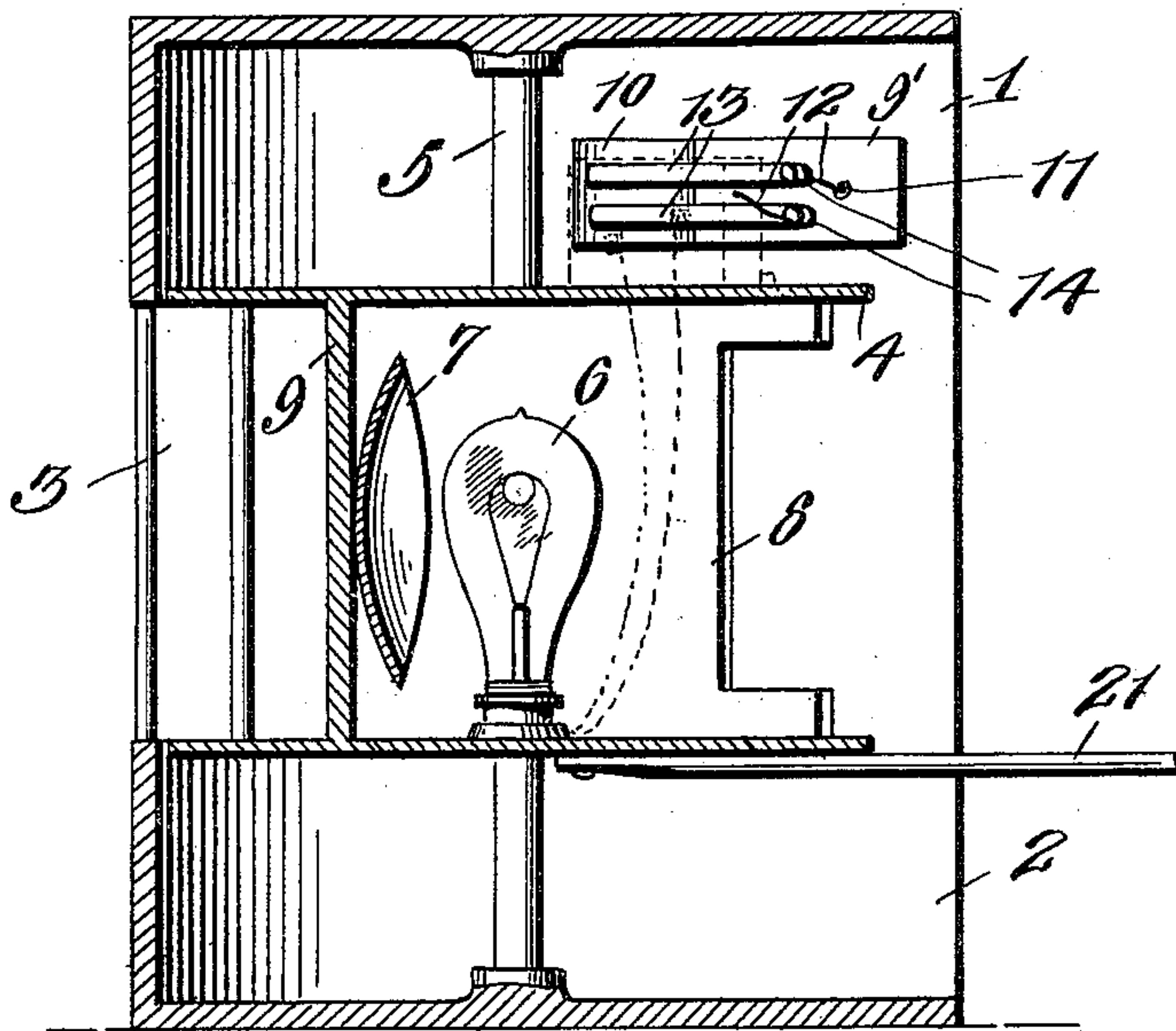


FIG. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

EMILE BEAUCOUDRAY AND ERNEST STOLTZ, OF COVINGTON, LOUISIANA.

ELECTRIC LAMP.

990,514.

Specification of Letters Patent.

Patented Apr. 25, 1911.

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To all whom it may concern:

Be it known that we, EMILE BEAU-
DRAY and ERNEST STOLTZ, citizens of the
United States, residing at Covington, in the
5 parish of St. Tammany and State of Louisi-
ana, have invented certain new and useful
Improvements in Electric Lamps, of which
the following is a specification, reference
being had to the accompanying drawings.

10 This invention relates to improvements in
electric lamps such as are used in bakery
ovens, and especially with reference to the
provision of an electric switch mechanism
for automatically turning on and off the
15 current from the lamp according to the di-
rection in which the revoluble lamp carry-
ing element is turned, so as to avoid the
necessity of manually operating a switch
for turning the bakery light on and off, the
20 invention consisting in the construction,
combination and arrangement of devices,
hereinafter described and claimed.

In the accompanying drawings—Figure 1
is a perspective view of an electric lamp
25 such as are used in bakery ovens, provided
with switch mechanism embodying our in-
vention, and showing the lamp in unlighted
position. Fig. 2 is a sectional view of the
same on the plane indicated by the line
30 *a—a* of Fig. 1, and Fig. 3 is a vertical cen-
tral sectional view of the same. Fig. 4 is
a detail perspective view of the block which
is attached to the movable element of the
lamp.

35 For the purposes of this specification, we
show in the accompanying drawings an elec-
tric lamp for use in a bakery oven, the hood
or casing 1 thereof being open on its outer
side as at 2, and being provided in its semi-
40 circular inner wall with an opening 3 which
is presented to the interior of the oven.

The revoluble member 4 of the lamp is
cylindrical in form, disposed in the casing
or hood 1, and has a vertical shaft 5 the
45 bearings for which are in the upper and
lower sides of the said hood or casing. The
incandescent electric lamp 6 of usual form
is mounted in the said revoluble member 4,
and on one side thereof is a reflector 7 which
50 is opposite the opening 8 in the said revo-
luble member 4, which opening, when the
member 4 is turned in one direction, regis-
ters with the opening 3 of the hood or cas-
ing 1, so as to uncover the said opening 3,
55 and permit the light of the lamp to shine

therethrough, the rear wall 9 of the said
member 4, when said member 4 is turned in
the reverse direction moving across and clos-
ing the said opening 3, so as to cut off the
light of the lamp. In other words, the open- 60
ing 8 of the member 4 which uncovers the
electric lamp, may be disposed either oppo-
site the opening 3 of the hood or casing 1,
or in the reverse position with reference
thereto. 65

In accordance with our invention, we pro-
vide an electric switch mechanism which
operates automatically to close the circuit
including the electric lamp 6, when the mem-
ber 4 is turned in the reverse direction, so 70
as to dispose its rear wall opposite the said
opening 3. An insulating block 9 which is
rectangular in form and is preferably made
of porcelain, is secured to one side wall of
the casing 1, at a point above the member 4. 75
The inner end of the said insulating block
is cut away on its outer side to provide a
recess 10. The said block 9 is provided with
openings 11 through which the feed wires
12 extend, and is provided with a pair of 80
contact arms 13 which are secured thereto
by suitable binding posts 14 to which the
feed wires are connected. The said contact
arms extend longitudinally of the block 9,
and are disposed partly thereon and partly 85
over the recess 10, the outer ends of the said
contact arms being curved toward the block
9, and projecting across the recess 10. We
also provide an insulating block 15 which is
segmental in form and is provided at its 90
lower end on its rounded side, with an out-
standing flange 16. The said block 15 bears
on the upper side of the revoluble member 4,
and is secured thereto, by a suitable screw 17,
which passes through the flange 16 and also 95
through the top of the member 4, the said
block 15 being secured on the member 4 with
its curved outer face concentric with said
member 4, and its post near the periphery
thereof. On the said curved face of the 100
block 15, is a pair of contact arms 18, each
of which is secured thereto, at one end, by a
bolt 19, the said bolts being provided at their
inner ends with attaching devices 20, to
which the conducting wires of the lamp 6 105
are electrically connected. The contact arms
13 of the fixed block 9 which is secured to
the hood or casing 1, incline downwardly,
and the arms 18 of the block 15, which are
attached to and move with the revoluble 110

member 4, are disposed at such points thereon that when the member 4 is turned by means of its actuating rod 21, so as to dispose the opening 8 opposite the opening 3, the contact arms 18 of the said block 15, engage and effect sliding contact with the curved ends of the arms 13 of the block 9, so as to close the circuit in which the lamp 6 is included, and thereby cause the lamp to be lighted and to shine through the opening 3. Owing to the provision of the recess 10, in the block 9, and the spring of the contact arms, the closing of the electric lamp circuit is assured when the member 4 is turned in the required direction to dispose its opening 8 opposite the opening 3. When the member 4 is turned in the reverse direction by means of its actuating rod so as to dispose the rear wall or side of the member 4 opposite the opening 3, the block 15 moves away from the block 9 and the contact arms 18 become disconnected from the contact arms 13, so as to break the circuit including the electric lamp 6, and hence put out the light. It will be understood from the foregoing description, that our improved switch devices operate automatically to cut in or cut out the lamp according to the direction in which the revoluble lamp carrying member is turned by its hand rod, so that the electric lamp is lighted and used only when it is necessary to look into the oven. Moreover, by means of our improved switch devices, it is not necessary for the baker to operate a switch when using the lamp, it being only

necessary for him to turn the lamp into or out of lighting position.

We claim:—

1. An oven lamp comprising a fixed casing member, and a revoluble lamp carrying member mounted therein, in combination with an insulating block attached to the fixed casing member, and provided with electric contact arms, and an insulating block attached to the revoluble lamp carrying member, and provided with contact arms movable by said lamp carrying member into and out of engagement with the first mentioned contact arms.

2. An insulating block for attachment to the fixed hood or casing of an oven electric lamp, and provided with a recess extending across the same, and electric contact arms extending across the said recess, in combination with a segmental insulating block for attachment to the revoluble member of the electric oven lamp, the said segmental insulating block being provided on its curved surface with electric contact arms, movable by the movement of the said revoluble element, into and out of engagement with the contact arms of the first mentioned block.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses.

EMILE BEAUCOUDRAY.
ERNEST STOLTZ.

Witnesses:

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