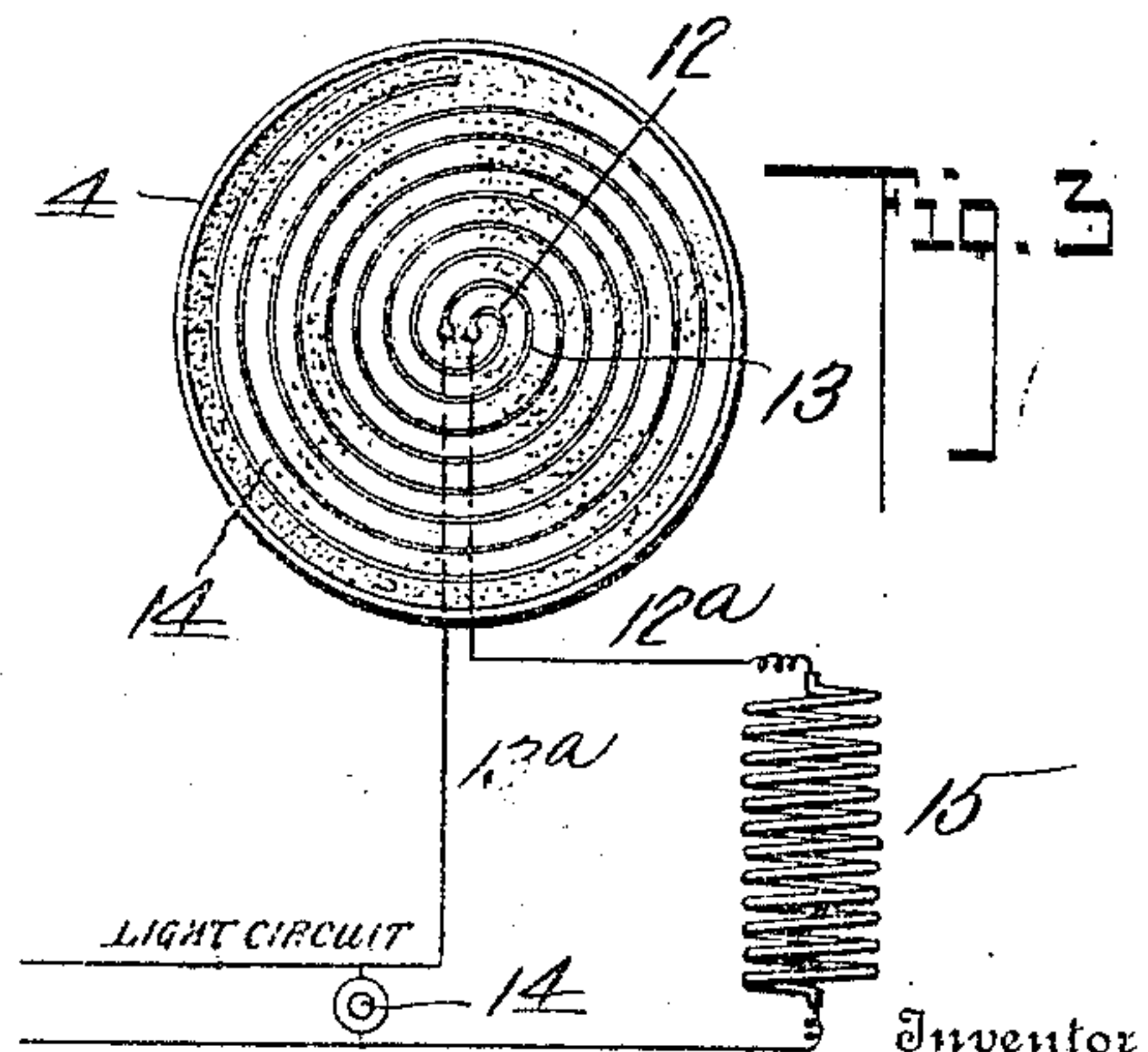
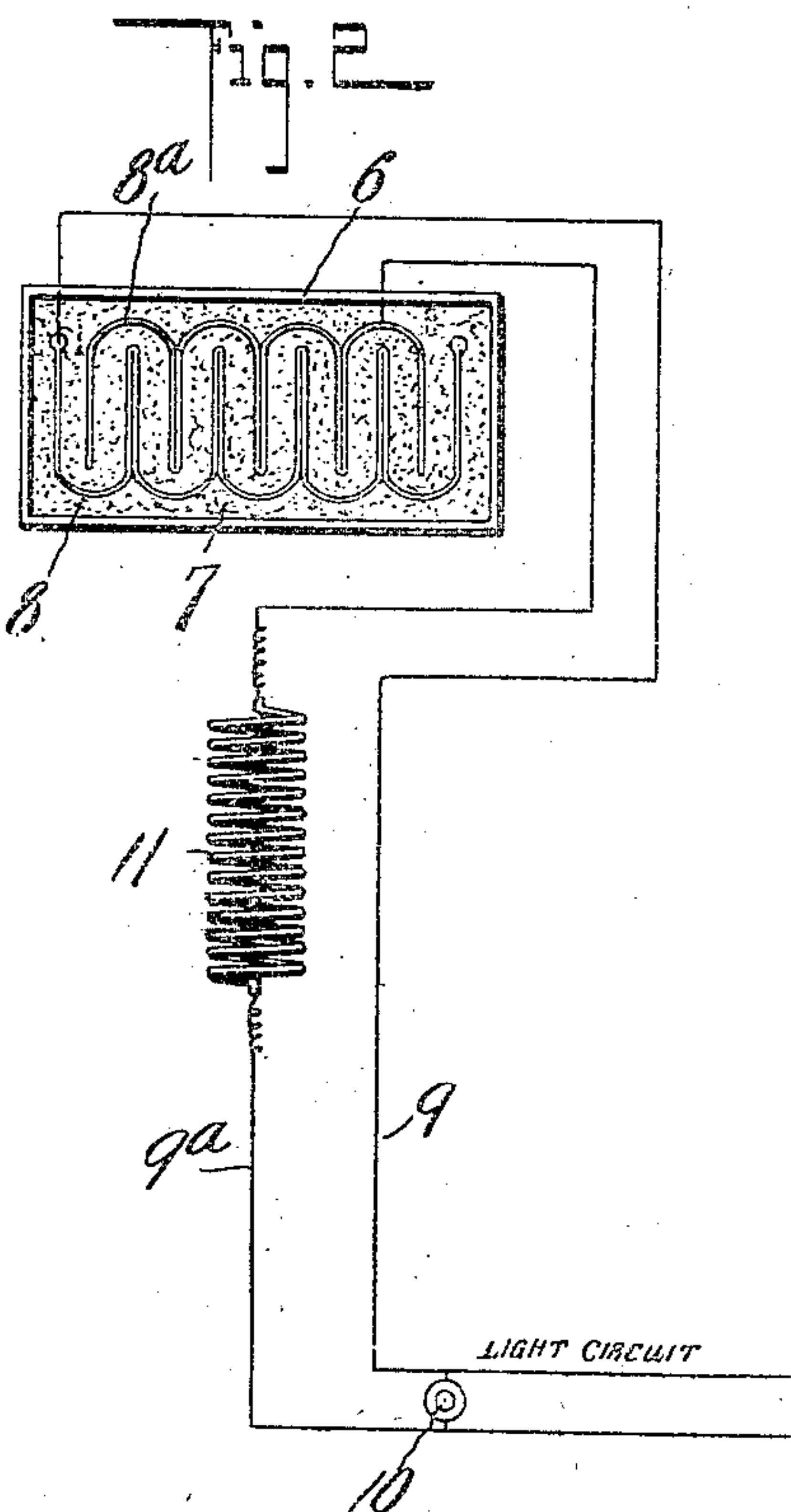
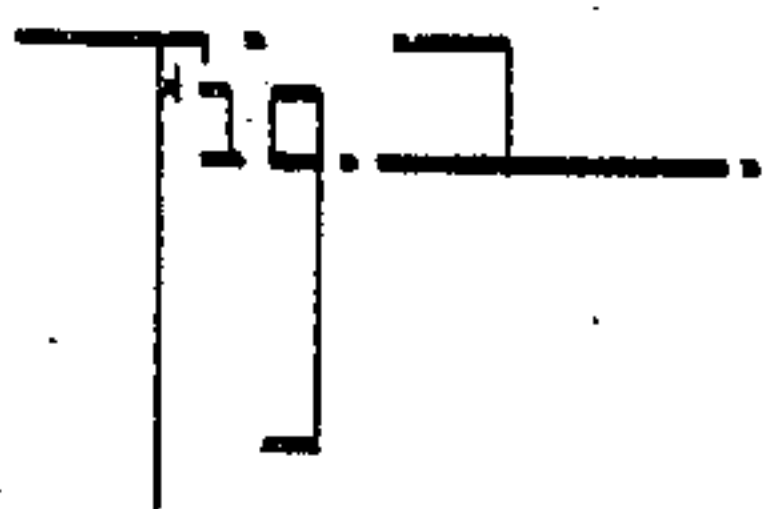
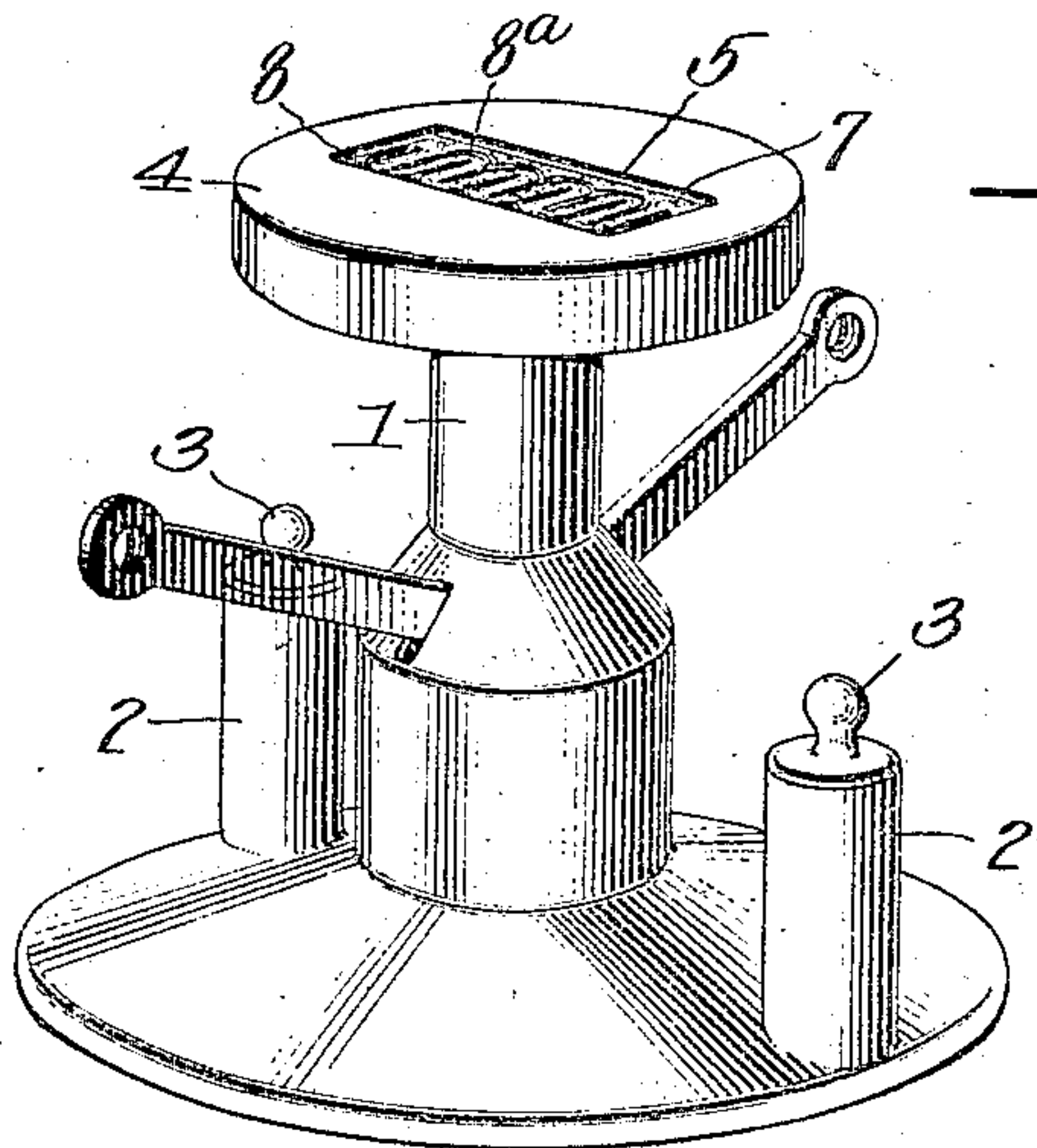


914,995.

Patented Mar. 9, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN W. TODD, JR., OF JACKSON, MISSISSIPPI, ASSIGNOR TO O. S. JOHNSON AND C. M. CAIN,
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ELECTRIC CIGAR-LIGHTER.

No. 914,995.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed January 8, 1908. Serial No. 409,884.

To all whom it may concern:

Be it known that I, JOHN W. TODD, Jr., a citizen of the United States, residing at Jackson, in the county of Hinds and State of Mississippi, have invented a new and useful Improvement in Electric Cigar-Lighters, of which the following is a specification.

This invention relates to an electric cigar lighter, the object of the invention being a device of this kind of cheap and durable construction, an electric spark igniting a fuel such as alcohol carried by a metallic brush.

The invention consists of the novel features of construction hereinafter described, pointed out in the claims and shown in the accompanying drawings, in which—

Figure 1 is a perspective view of the device, a circuit being shown in diagram, Fig. 2 is a diagrammatic view showing my preferred form, Fig. 3 is a diagrammatic view illustrating a slight modification.

In these drawings 1 represents a cigar cutter which may be of any desired construction and which carries receptacles 2 for alcohol in which rest the usual brushes 3, it being understood of course, that the brushes are of metal and not of a vegetable fiber or other non-conducting material.

Upon the upper end of the cigar cutter 1 is placed a cylindrical casing 4 the upper face of which is provided with a rectangular slot 5. Within the casing 4 is arranged in my preferred form a rectangular box 6 within which is embedded in suitable insulating material 7 two metal strips 8 and 8^a each of which is bent into a series of U-shape members, and these strips are oppositely arranged so that the bow portions of the strip 8 are adjacent one side of the box and the bow portions of the strip 8^a are adjacent the opposite side, the side portions of said U-shape members overlapping but being spaced apart by the insulating material 7 which is packed between and around them. The strips 8 and 8^a are connected respectively to conductor wires 9 and 9^a connected at any desired point by a plug or other switch 10 and when said wires are a portion of an electric light circuit a resistance coil 11 is inserted between the box 6 and the switch 10. It will, of course, be obvious that batteries can be employed if desired in which case the wires 9 and 9^a are connected

to the battery terminals and the resistance coils can be omitted.

In Fig. 3 I have shown a modified form in which I place in the casing 4 two convolute coils 12 and 13 respectively arranged one within the other and separated by suitable insulation 14. These coils are connected to wires 12^a and 13^a also provided with a switch 14 and a resistance coil 15. It will be understood that when the form shown in Fig. 3 is employed the box 6 is omitted and metal strips in the form of convolute coils are placed directly in the casing 4. When the preferred form is employed the box 6 rests in the casing 4 immediately beneath the slot 5 and as the box is not provided with a cover the drawing of one of the brushes 3 across said slot lengthwise will cause the brush to make and break a circuit between the strips 8 and 8^a thus producing one or more sparks which will ignite the alcohol or other fluid upon the brush. The operation of the form shown in Fig. 3 is the same as the form shown in Fig. 2.

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

1. The combination with a casing, said casing having its top slotted, two metallic contact strips arranged therein, said strips being substantially parallel to each other and transverse to the slot and each providing a tortuous passage for an electric current, electric wires connected respectively to said strips, and insulating material packed between and around the said strips.

2. A device of the kind described consisting of a casing having its top slotted, a rectangular box arranged in the casing, and registering with the slot, packing material of an insulating nature arranged in the box, metallic contact strips embedded in said material and spaced apart, each of said strips consisting of a series of U-shape members, said strips being oppositely arranged, side portions of the U-shape members overlapping, and electrical conductors connected respectively to said strips, as and for the purpose set forth.

3. In a device of the kind described an open top box, two metallic strips each of which is bent into a series of U-shape members, the bow portions of one strip being ar-

arranged adjacent one side of the box, and the
bow portions of the other strip being adja-
cent the opposite side of the box, the U-shape
members of one strip being staggered with
5 respect to those of the other and overlap-
ping, an insulating material packed around
and between said strips, and means for plac-

ing each of said strips in connection with a
source of electric energy.

JOHN W. TODD, JR.

Witnesses:

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