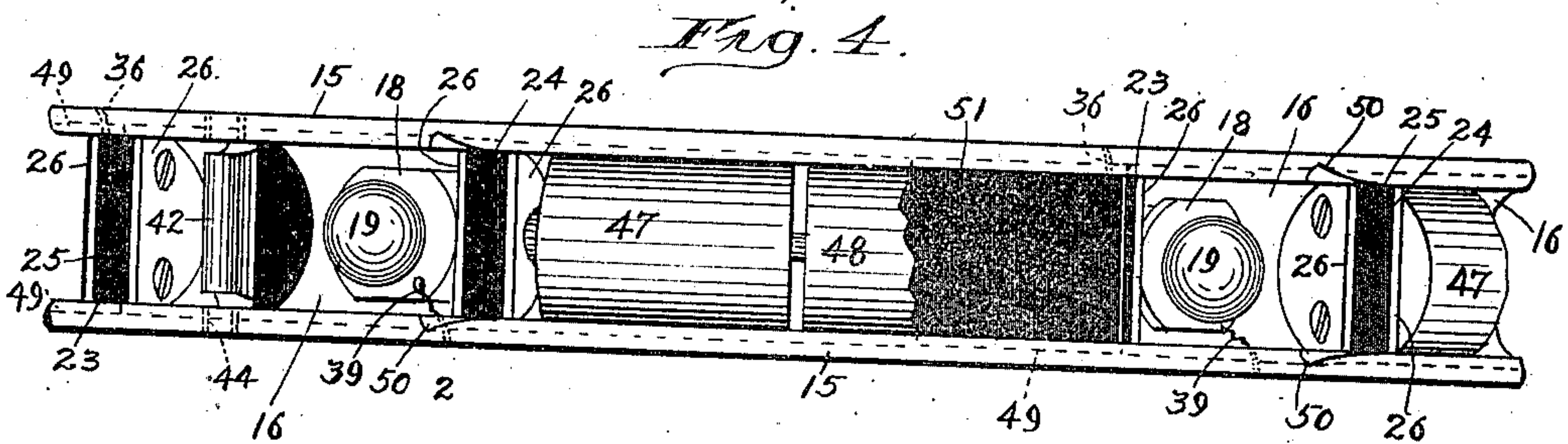
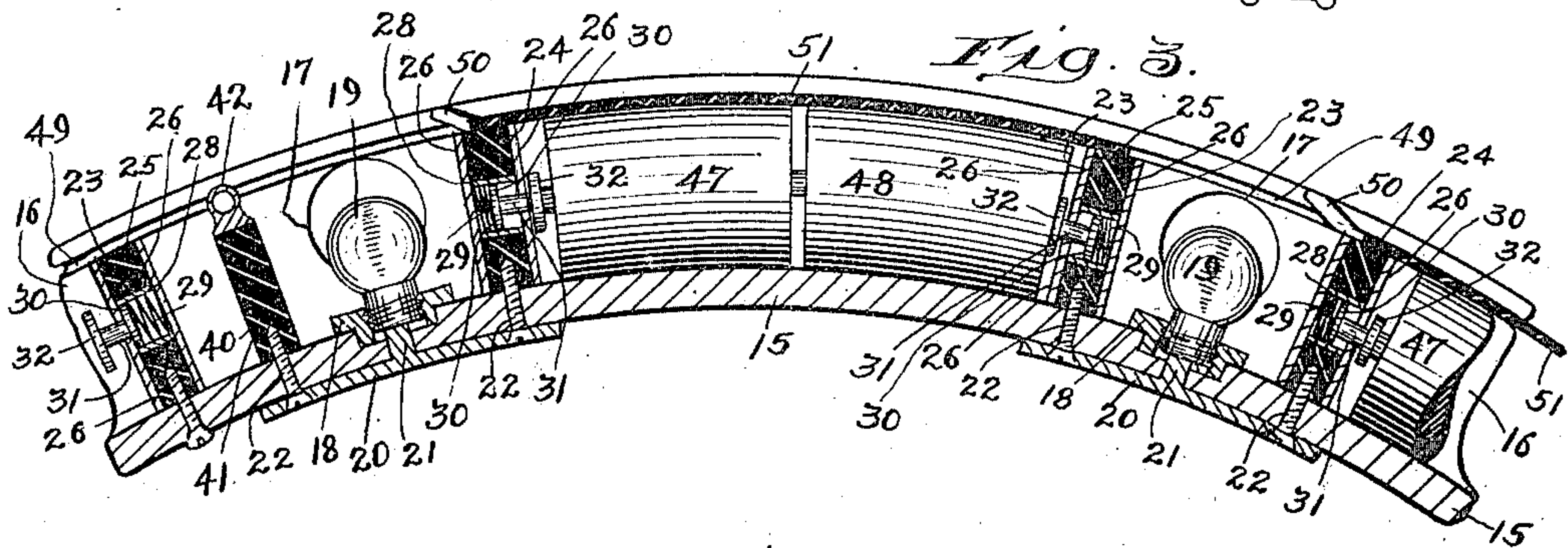
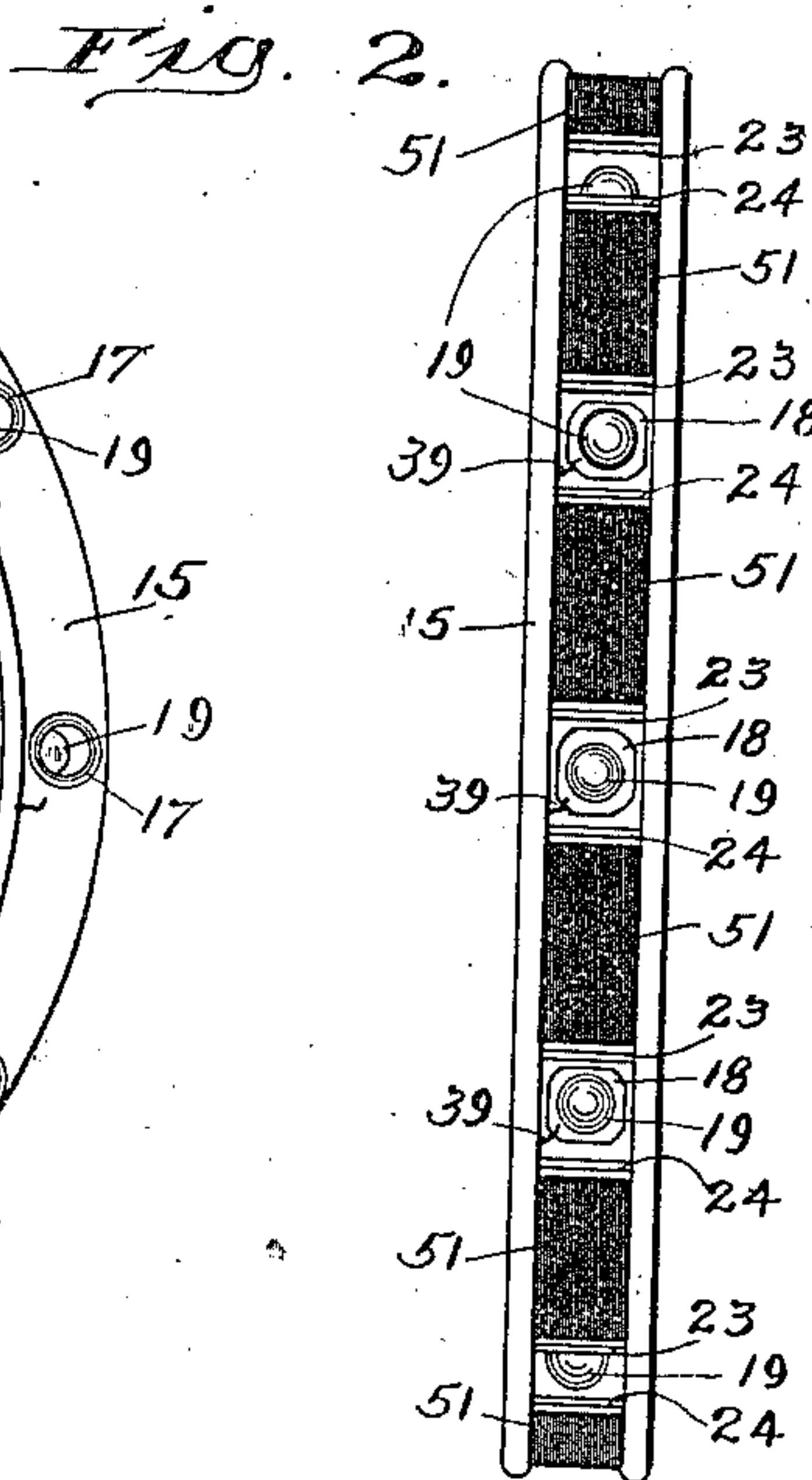
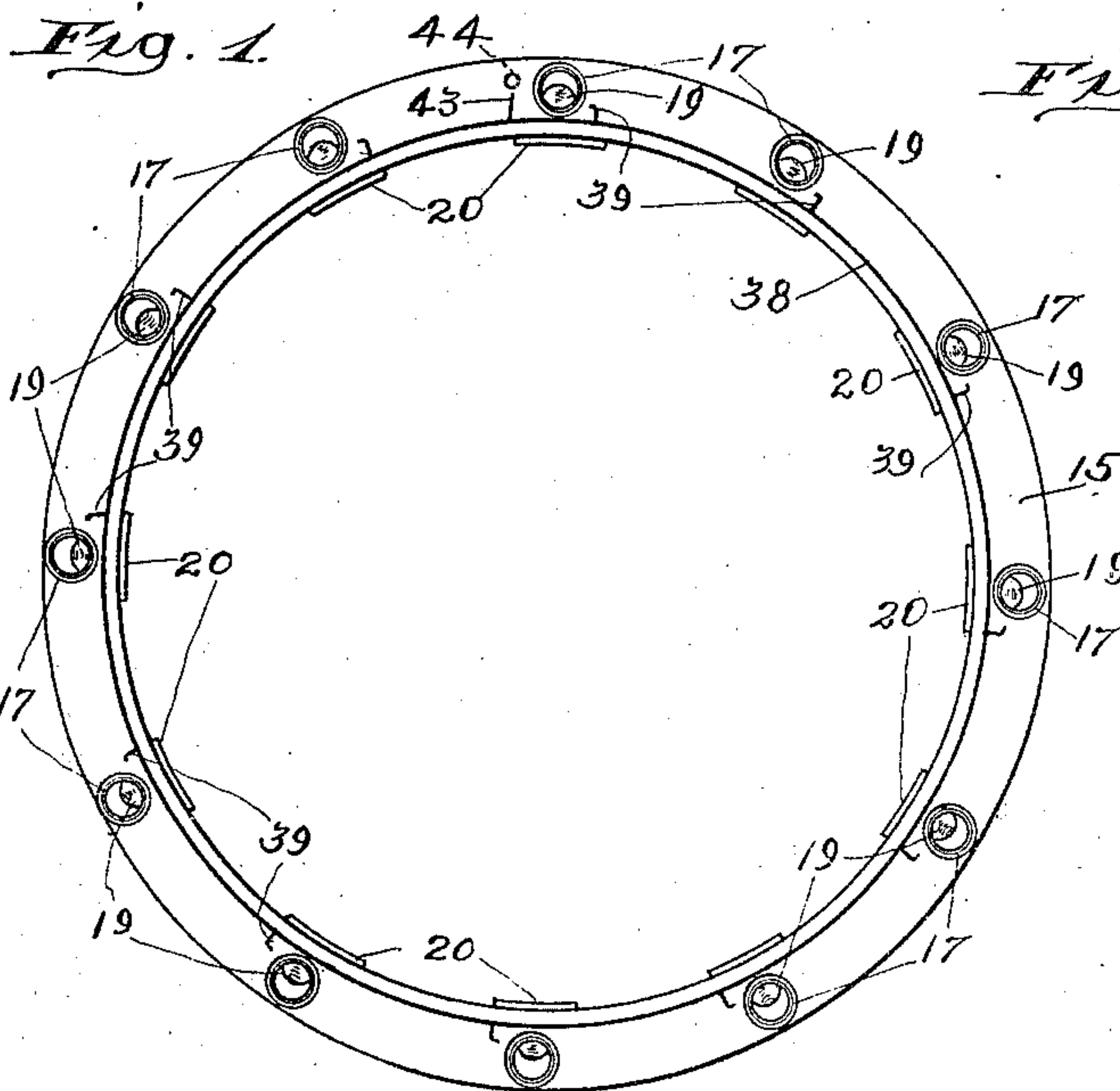


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ELECTRICAL HOOP.  
APPLICATION FILED NOV. 25, 1910.

989,944.

Patented Apr. 18, 1911.

2 SHEETS-SHEET 1.



Witnesses  
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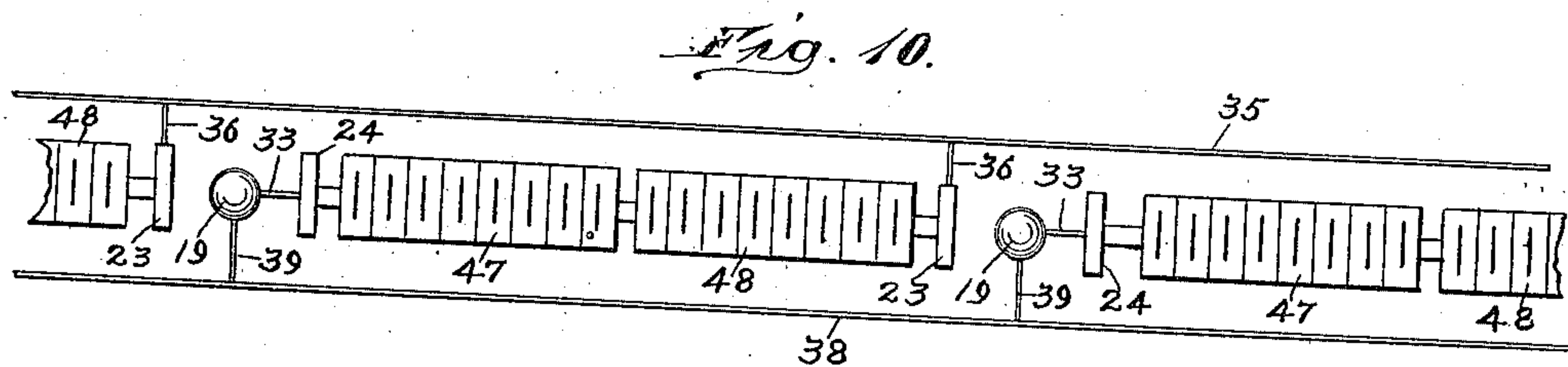
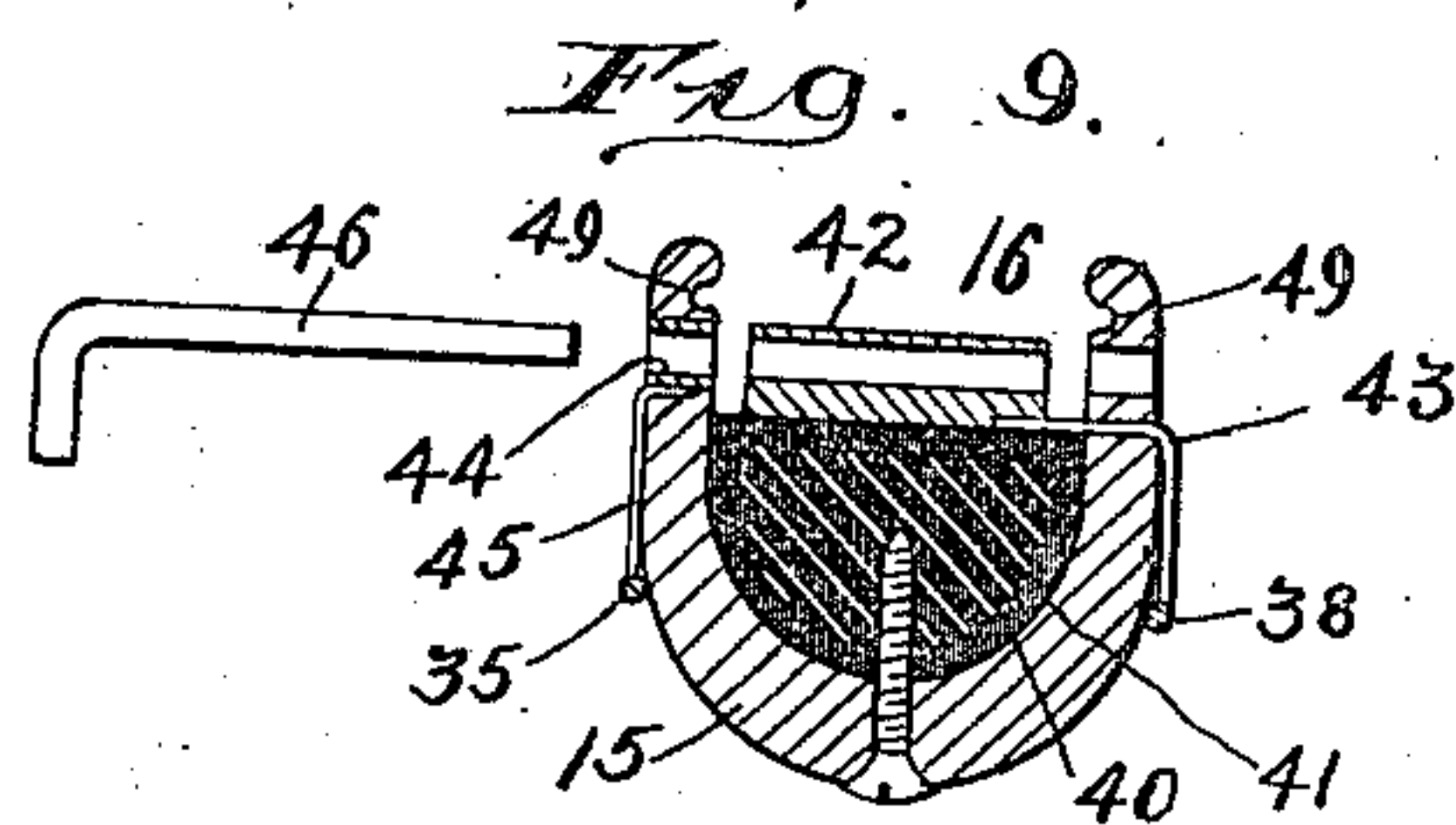
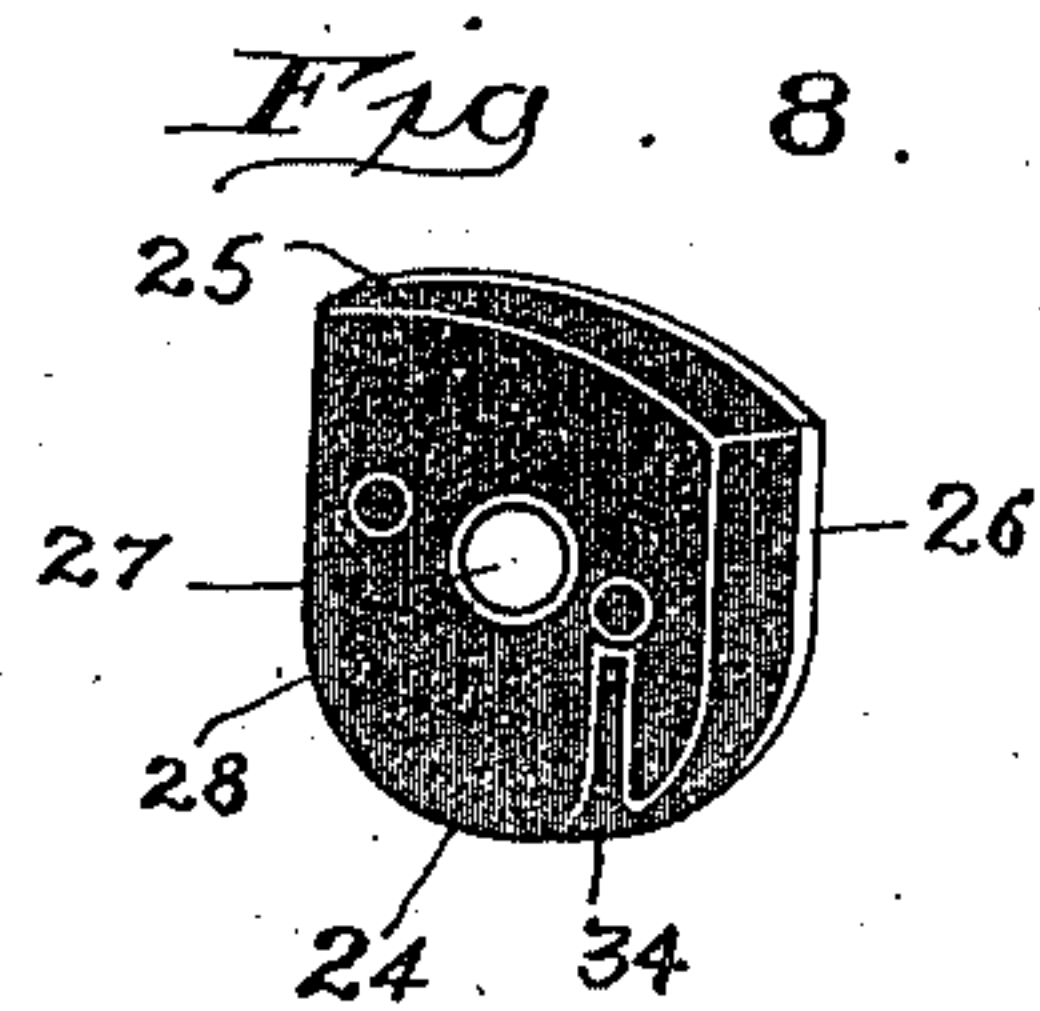
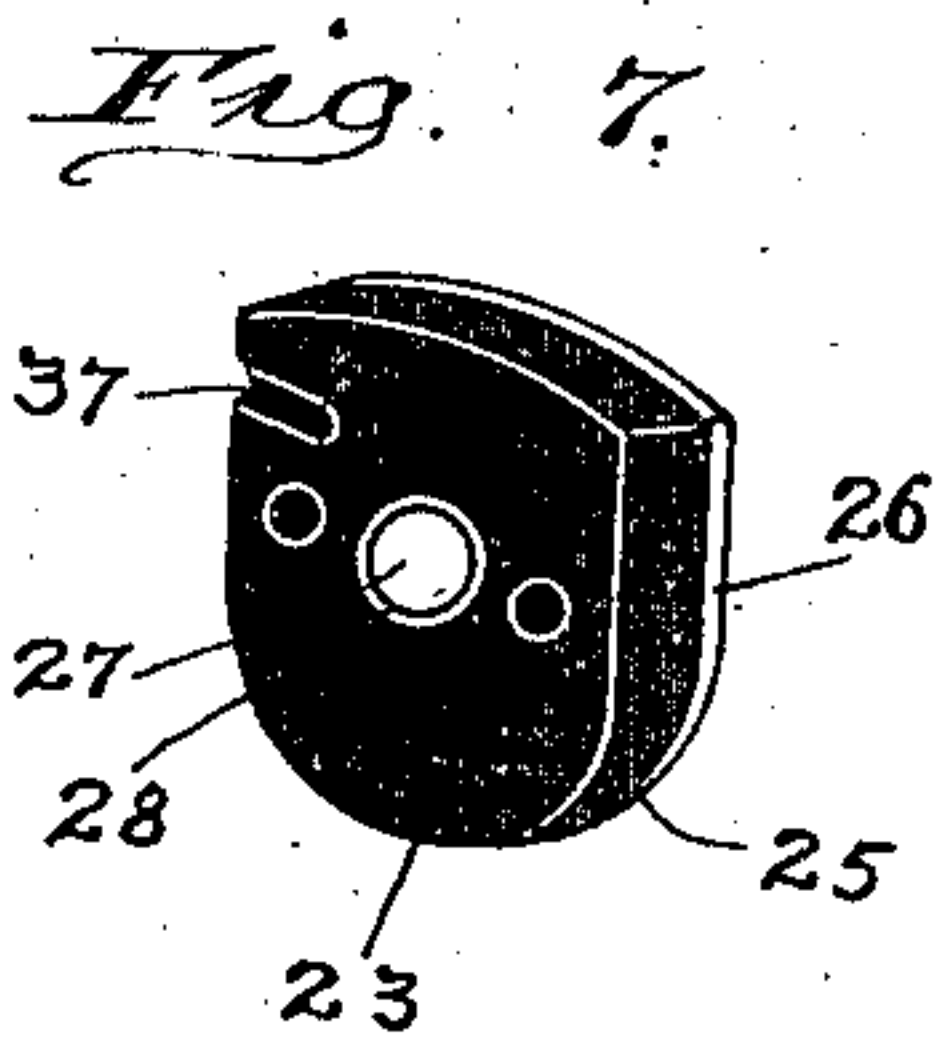
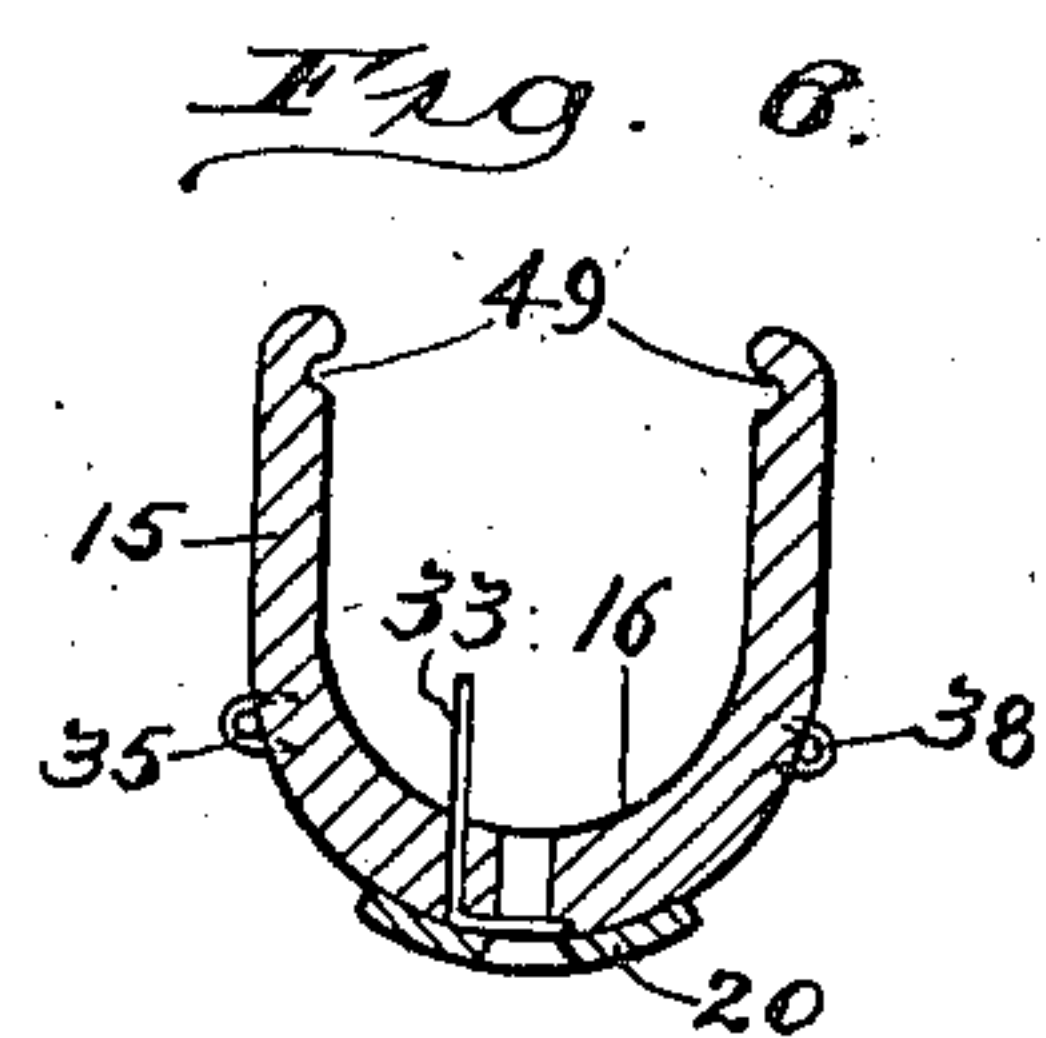
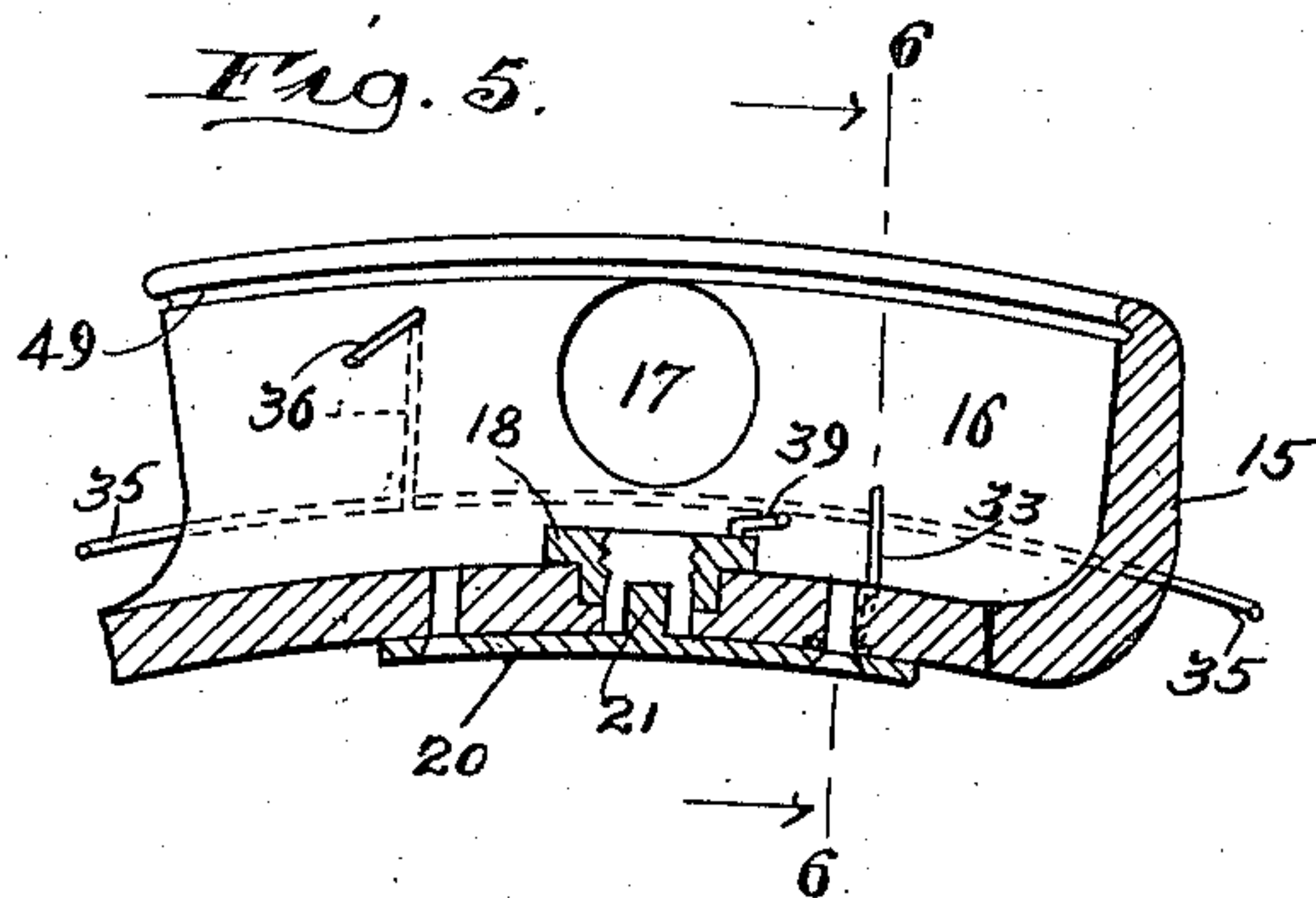
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2 SHEETS—SHEET 2.



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ATTY



# UNITED STATES PATENT OFFICE.

PAUL BRAMSON, OF CHICAGO, ILLINOIS.

## ELECTRICAL HOOP.

989,944.

Specification of Letters Patent.

Patented Apr. 18, 1911.

Application filed November 25, 1910. Serial No. 593,983.

### *To all whom it may concern:*

Be it known that I, PAUL BRAMSON, a subject of the Emperor of Germany, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Electrical Hoops, of which the following is a specification.

This invention relates to certain new and useful improvements in electrical hoops, and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The primary object of the invention, is, to provide a member, preferably in the form of a hoop, as shown in the drawings, but which may be of other shape if desired, which can be quickly illuminated so as to display numerous lights, and various colors when desired.

Another object of the invention, is, to so construct the hoop or member, that, it will carry the entire illuminated apparatus therefor, thus rendering it independent of any connections uniting it to a fixed supply of light, and thereby adapting it for movement in any direction, while lighted or not without hindrance.

A further object is to provide a hoop or member upon which lights may be quickly produced or extinguished while the same is being trundled or manipulated as required when the hoop is being used as a theatrical contrivance for which it is especially designed.

Other objects and advantages of the invention will be disclosed in the subjoined description and explanation.

In order to enable others skilled in the art to which my invention pertains, to make and use the same, I will now proceed to describe it referring to the accompanying drawings in which—

Figure 1, is a view in side elevation of an electrical hoop embodying the invention. Fig. 2, is an edge view thereof. Fig. 3, is an enlarged view partly in section and partly in elevation, taken centrally and circumferentially through a portion of the hoop. Fig. 4, is an enlarged plan view of a portion of the hoop. Fig. 5, is a sectional view of a portion of the hoop showing one of the lamp-sockets, with the lamp thereof removed, and illustrating the arrangement of some of the

wires or electric conductors. Fig. 6, is a cross sectional view taken on line 6—6, of Fig. 5, looking in the direction indicated by the arrows. Fig. 7, is a detached perspective view of one of the terminals for the battery cells. Fig. 8, is a similar view of the other terminal therefor. Fig. 9, is a cross sectional view through the hoop showing the construction of the switch and the key for completing and breaking the electric circuit, and Fig. 10, is a diagrammatic view illustrating the circuit.

Like numerals of reference refer to corresponding parts throughout the different views of the drawings.

The reference numeral 15, designates the member to be illuminated, which member in the present instance is shown in the form of a ring or hoop, but it will be understood that this member may be of other form if desired. This hoop or member may be made of any suitable size form and material, but preferably of wood and has a channel 16, which opens outwardly as is clearly shown in various views of the drawings.

At suitable distances apart, the hoop or member 15, is provided in each of its sides with openings 17, which are arranged in pairs, or so that the openings on one side of the channel 16, in the hoop-body will register with the openings in the other side thereof. The floor of the channel 16, of the hoop, has secured thereto between each pair of the openings 17, a socket 18, for an electric lamp 19, of the ordinary or any well known construction, the globes of which may be of variegated colors if desired.

Secured on the outer surface of the hoop-body 15, opposite each of the sockets 18, is a plate 20, each of which has a projection 21, extended into the socket 18, to contact with the lamp 19, so as to make electric connection therewith. Each of the plates 20, is secured to the hoop-body by means of screws 22, which are extended through the floor of the channel 16, in the hoop and engage terminals 23 and 24, which terminals are disposed transversely of the channel 16, in pairs, on either side of the lamps.

Each of the terminals 23 and 24, consist of a piece of insulating material 25, having metal plates 26, secured on opposite sides thereof as is clearly shown in Fig. 3, of the drawings. Each of the pieces 25, is provided with a central opening 27, in which is located a metal tube 28, which extends



from one of the plates 26, to the other. Located in each of the tubes 28, is a spring 29, one end of which rests against one of the plates 26, and the other against a head 30, on a stem 31, which is movably located in a suitable opening in one of the plates 26, of each of the terminals, and which stem has on its outer end a head 32, to contact with one of the cells of the battery adjacent thereto.

Secured on each of the screws 22, which secure the terminals 24, to the hoop, is a conductor 33, which is extended through the floor of the channel 16, of the hoop, and projected into a recess 34, formed in the lower portion of one side of the insulating material 25, so as to contact with one of the plates 26, of said terminals. Secured on one side of the hoop-body 15, is a conductor 35, which has a series of branch conductors or arms 36, extended through one side of the hoop-body, one of which is extended into a recess 37, formed in the upper portion of the insulating material 25, of each of the terminals 23, so that said branch conductors will contact with one of the plates 26, of said terminals. Secured on the side of the hoop-body opposite that on which the conductor 35, is located, is another conductor 38, which has a series of branch conductors 39, extended through one side of the hoop-body and electrically connected to each of the lamp sockets 18, as is clearly shown in Figs. 4 and 10, of the drawings. Located within the channel 16, of the hoop-body and between one pair of the terminals 23 and 24, is a switch, which is indicated as a whole by the reference numeral 40, and consists of a piece of insulating material 41, having on its upper surface a transversely disposed metal socket piece 42, which is electrically connected to the conductor 38, by means of a branch conductor 43, extended through one side of the hoop-body. Located in the opposite side of the hoop-body at a point to register with the socket of the piece 42, is another metallic socket piece 44, which is electrically connected to the conductor 35, by means of a branch conductor 45, see Fig. 9, of the drawings. The electrical circuit is completed by means of a key 46, which is extended through the socket piece 44, and into the socket of the piece 42, as will be apparent by reference to the last named figure of the drawings.

Located within the channel 16, of the hoop-body and between each pair of the terminals 23 and 24, are battery cells 47, and 48, of the ordinary or any preferred construction, which cells have their ends adjacent to the terminals 23 and 24, in electrical contact therewith. The outer portion of the inner surface of each of the sides of the hoop-body is provided with a longitudinally extended groove 49, which grooves

have outwardly inclined recesses 50, at points near each of the lamps 19, for the reception and removal of protecting plates 51, for the battery cells, which plates are preferably made of insulating material such as fiber or the like. By this arrangement it is apparent that each of the plates 51, may have one of its ends inserted in the outwardly inclined portions 50, of the grooves 49, when it can be slid into said grooves so as to lie over the battery cells as is clearly shown in Fig. 3, of the drawings. When desired, these protecting plates may be removed by moving the same in the opposite direction as is obvious.

From the foregoing and by reference to the drawings, it will be readily seen, that, by employing a hoop or member, constructed according to my invention, the lamps 19, as well as the cells 47 and 48, of the batteries, will be protected from injury by the sides of the hoop, and the protecting plates 51, which as before stated are removably located in grooves formed in the sides of the channel of the hoop or member. It is also apparent that as the outer portion of the channel is open, and that as the sides thereof are provided with openings 17, arranged in pairs, the light from the lamps will be visible, when the device is viewed from either side, or from its edge. It is further apparent that as the entire illuminating apparatus is carried by the hoop or member, the said member can be trundled, moved, or manipulated in any desired direction or manner, and that the lamps may be illuminated or extinguished by inserting or removing the key 46, from the switch, which completes or breaks the electric circuit. The spring actuated stems 31, located in the terminals 23 and 24, and having the heads 32, thereon to engage the battery cells 47 and 48, will so hold the latter within the channel of the hoop or member 15, that they may be readily removed or replaced.

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

1. In a device of the character described, the combination with a member having a channel and provided with openings communicating with said channel, said openings arranged to register with one another in pairs, of a series of electric lamps located in the channel between the openings of each pair, a series of batteries located in the channel between said lamps, electric connections uniting the lamps and batteries, and a switch mounted on the member to open and close the electric circuit.

2. In a device of the character described, the combination with a member having a channel and provided with openings communicating with said channel, said openings arranged to register with one another in



pairs, each of the walls of the channel having near its outer portion a longitudinally disposed groove provided with an outwardly inclined recess, of a series of electric lamps 5 located in the channel between the openings of each pair, a series of batteries located in the channel between said lamps, electric connections uniting the lamps and batteries, a

switch mounted on the member to open and close the electric circuit, and protecting 10 plates removably located in the grooves of the walls of the channel.

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