G. H. BARNHART.

PORTABLE ELECTROLIER.

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1,090,374.

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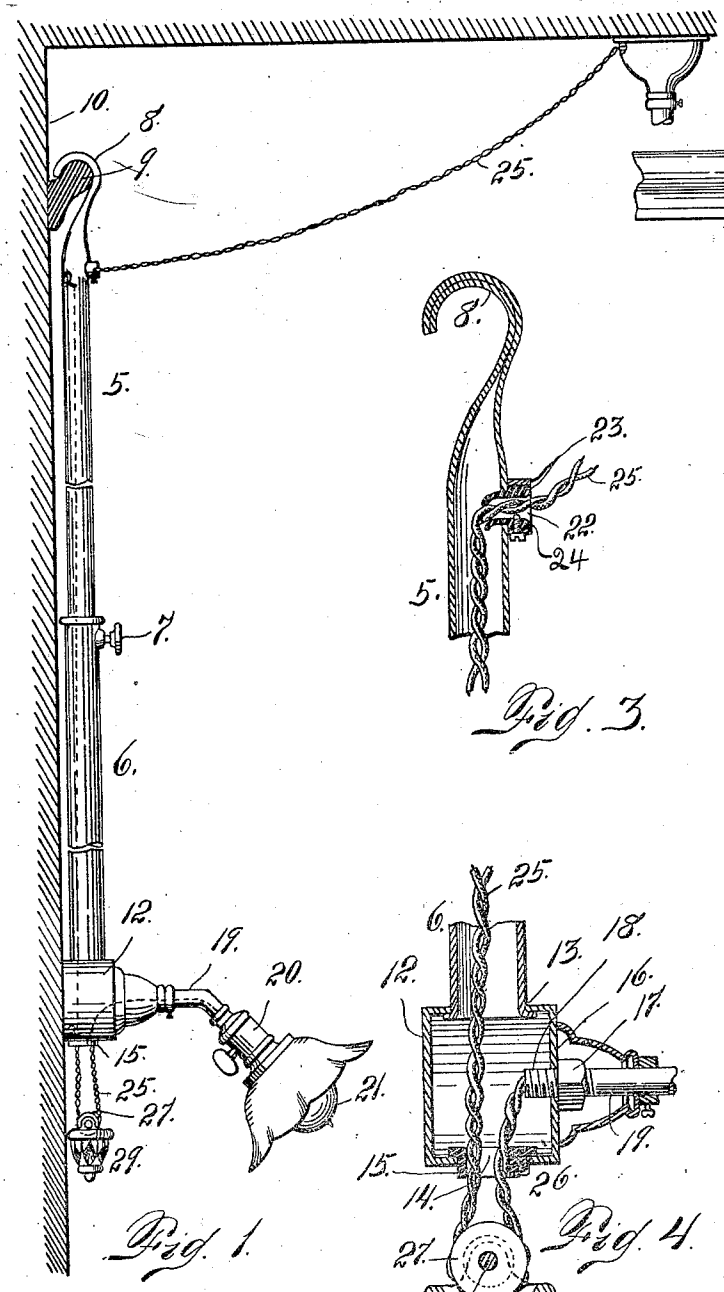


Fig. 1.

Fig. 3.

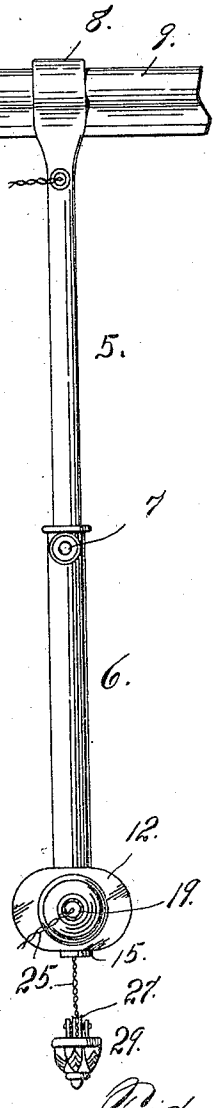


Fig. 2.

Fig. 4.

Witnesses

Otto E. Hoddick.

Lawrence E. Petersen.

Inventor

Geo. H. Barnhart.

By A. J. O'Brien

Attorney

UNITED STATES PATENT OFFICE.

GEORGE H. BARNHART, OF OURAY, COLORADO.

PORTABLE ELECTROLIER.

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To all whom it may concern:

Be it known that I, GEORGE H. BARNHART, a citizen of the United States, residing at Ouray, county of Ouray, and State of Colorado, have invented certain new and useful Improvements in Portable Electroliers; 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 the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in portable electroliers, or movable electric lamps.

My object is to provide a device of this character which, while electrically connected with a stationary device at the center of the room for instance, may be moved to any position on any wall of the room, thus making it practicable to have the electrolier conveniently located for illumination in any desired position.

As illustrated in the drawing it may be assumed that the electric wires are connected with or lead from a suitable attachment located at the ceiling of the room and preferably in the center thereof. These wires, preferably in the form of a coil lead to a tubular arm whose upper extremity is flattened and shaped to form a hook adapted to conform to the general shape of the picture molding of the room. The wires pass downwardly from this arm and through a larger arm arranged in telescopic relation with the first named arm, the two arms being arranged for vertical adjustment by means of a set screw. To the lower extremity of the larger arm a casing is attached through which the electric conductors pass, the conductors being looped around a pulley below the said casing, the pulley being mounted upon a weight of suitable mass to maintain the conductors straight and taut, within the tubes. The extremities of the conductors remote from those leading from the ceiling attachment, pass out of the said casing through a pipe and are connected electrically with the socket of the lamp. By virtue of this construction the electrolier may be moved from place to place around the room and the lower tubular member may be raised or lowered upon the upper member, and during this adjustment the weight located below the casing will maintain the conductors in proper position, as heretofore explained.

Having briefly outlined my improved construction I will proceed to describe the same in detail, reference being made to the accompanying drawing in which is illustrated an embodiment thereof.

In this drawing, Figure 1, is a side elevation of my improved portable electrolier, illustrating the same in use, the wall of the room where the device is located being shown in section. Fig. 2, is a view taken at right angles to Fig. 1, and may be considered a section taken on the line 2—2, Fig. 1, looking toward the left. Fig. 3, is a sectional view taken through the upper portion of the upper telescoping member shown on a larger scale. Fig. 4, is a similar section taken through the lower part of the lower telescoping member, the casing connected therewith and the weight, the parts also being shown on a larger scale.

The same reference characters indicate the same parts in all the views.

Let the numerals 5 and 6 designate two tubular members arranged in telescopic relation, the member 5, being the smaller in diameter and arranged to slide freely within the member 6, the two members being connected by means of a set screw 7, whereby their length may be regulated at will. The upper extremity of the tubular member 5, is flattened and bent to the proper curvature to form a hook 8, which fits the picture molding 9, of the wall 10, of a room. To the lower extremity of the tubular member 6, is secured a casing 12, which has an opening 13, at the top where it is connected with the lower extremity of the tube 6. This casing also has an opening 14, in the bottom thereof, in which is inserted an insulating sleeve 15. The casing 12, is also provided on its front wall with an opening 16, and a nut 17, is mounted on this wall in such position that its opening registers with the opening 16. Into this nut is screwed the threaded extremity 18, of a pipe 19, upon the outer extremity of which is mounted the socket 20, of an incandescent lamp 21.

The upper part of the tube 5, is provided with an opening 22, surrounded on the outer surface of the tube by a collar 23, in which is inserted an insulating sleeve 24, which also extends through the opening into the tube.

The electrical conductors 25, by means of which the lamp is supplied with current lead from any suitable location as the center of a room where they are preferably connected with a rosette or other device permitting the necessary current supply. These conductors pass through the opening 22, in the tube 5, thence downwardly through the two tubes, through the casing 12, and out through the opening 14, in the bottom thereof, and are formed into a loop 26, passing around a pulley 27, journaled on a pin 28, mounted on the upper part of the weight 29. The conductors pass upwardly from the pulley into the casing 12, and out through the pipe 19, and thence to the socket 20, where they are properly connected for supplying the lamp 21.

From the foregoing description the use and operation of my improved portable electrolier will be readily understood. The device may be attached to the picture molding on any wall of the room and may be moved from one position to another as often as is necessary, or as often as the convenience of the user or users, may require. The lamp is readily adjustable vertically by loosening the set screw 7, and moving the tube 6, either up or down upon the tube 5, and during the adjustment the weight 29, will maintain the conductors in the properly taut condition to prevent undue wear or rubbing upon each other or undue friction with any part of the structure, since the pulley 27, will turn freely on or with the pin 28, as may be desired.

Having thus described my invention what I claim is:

1. A portable electrolier comprising a hook adapted to be suspended from the ordinary picture molding, a tubular member depending vertically from said hook, a hollow element attached to the lower extremity of the tubular member, said element having a flat surface for engagement with the wall of the room, a lamp bracket extending outwardly from said hollow element, an electric lamp mounted in said bracket, and electrical conductors extending from said lamp through the bracket, hollow element and tubular member and out of the upper end of the latter.

2. A portable electrolier equipped at one extremity with a retaining device and freely movable, the body of the device being tubular and open at its lower extremity, electric conductors passing down through said body and forming a loop below the lower extremity of the device, the lower ends of said conductors being secured to the device, and a weight connected with said loop in running relation for the purpose set forth.

3. A portable electrolier equipped at its upper extremity with a retaining hook and freely movable, the body of the device being tubular and composed of two members adjustably connected in telescopic relation, the said body of the device being open at its lower extremity, electric conductors passing down through the said body and forming a loop below, the lower ends of said conductors being secured to the device, and a weight carrying a pulley engaging said loop in running relation for the purpose set forth.

4. An electrolier comprising two tubular members adjustably connected in telescopic relation and having a lamp mounted near the lower extremity of the lowermost member when in position for use, the lower member being open at the bottom, electrical conductors passing through the tubes and forming a loop below the lower extremity of the lower tube and passing thence to the lamp, and a weight carrying a roller engaging the said loop in running relation, substantially as described.

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

GEORGE H. BARNHART.

Witnesses:
S. J. O'BRIEN,
IRA E. DOLAN.