

Jan. 2, 1923.

1,441,069.

M. DANDY.
ELECTRIC ILLUMINATED CLOCK DIA.
FILED MAY 8, 1920.

3 SHEETS--SHEET 1.

Fig. 1.

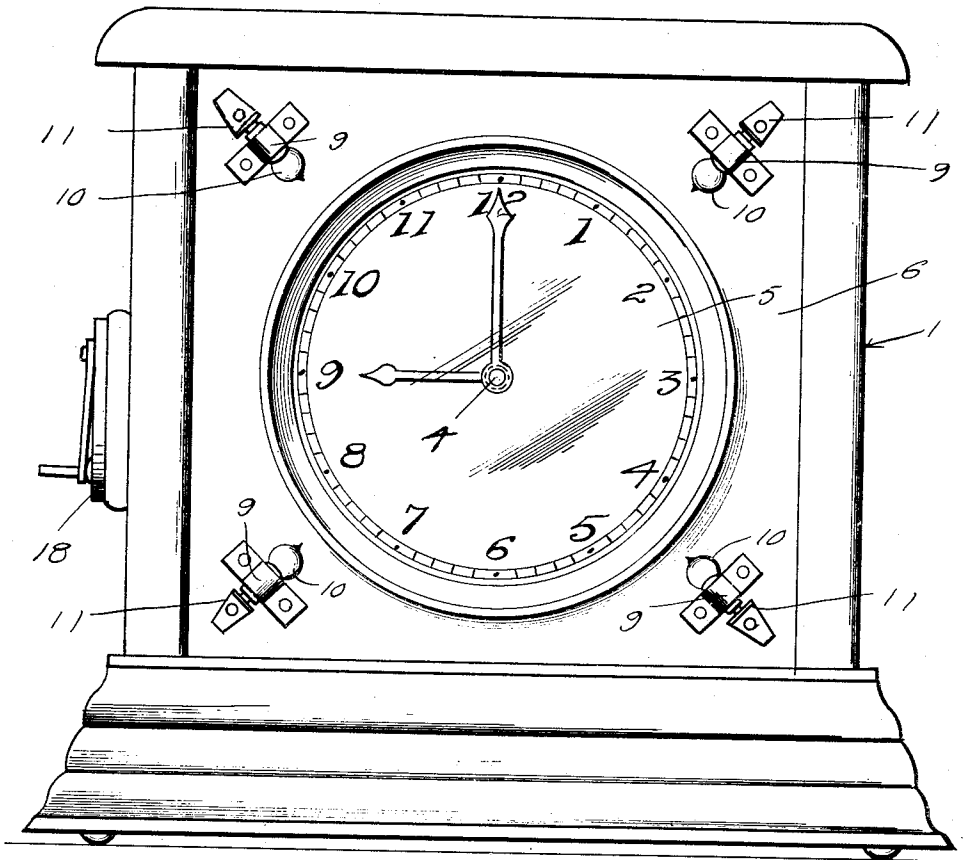


Fig. 6.

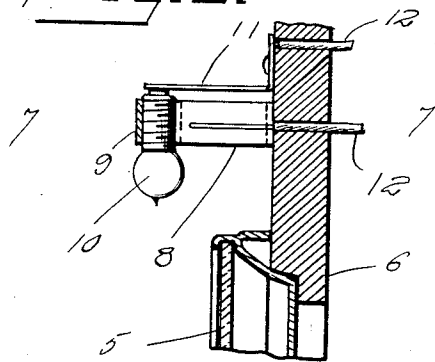
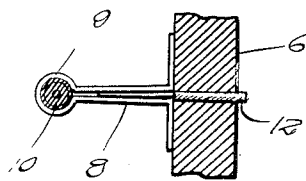


Fig. 7.



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3 SHEETS—SHEET 2

Fig. 2.

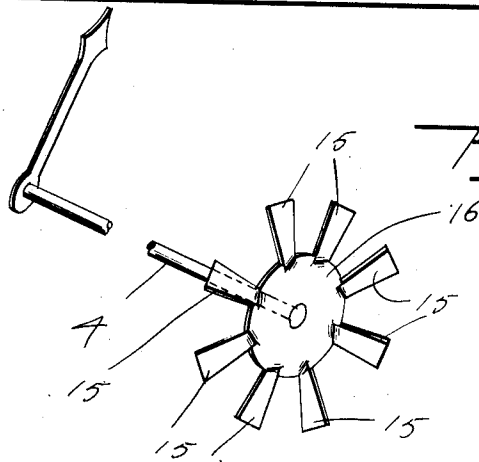
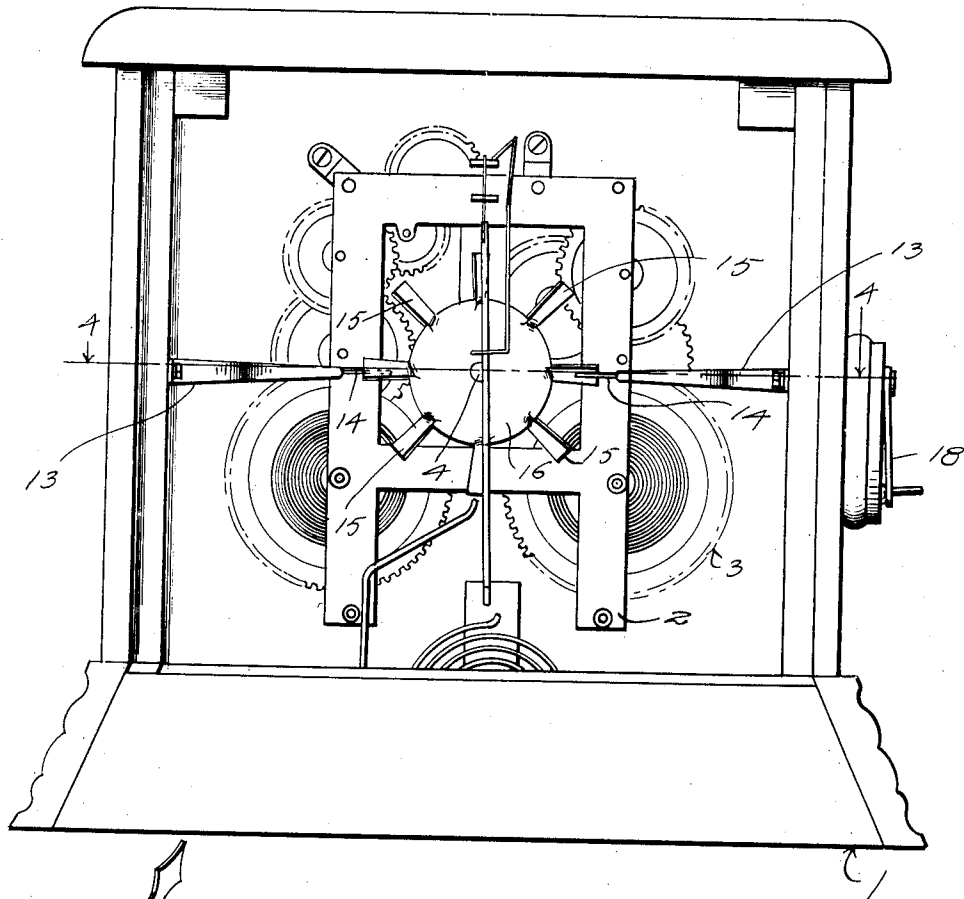


Fig. 5.

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3 SHEETS--SHEET 3.

Fig. 3.

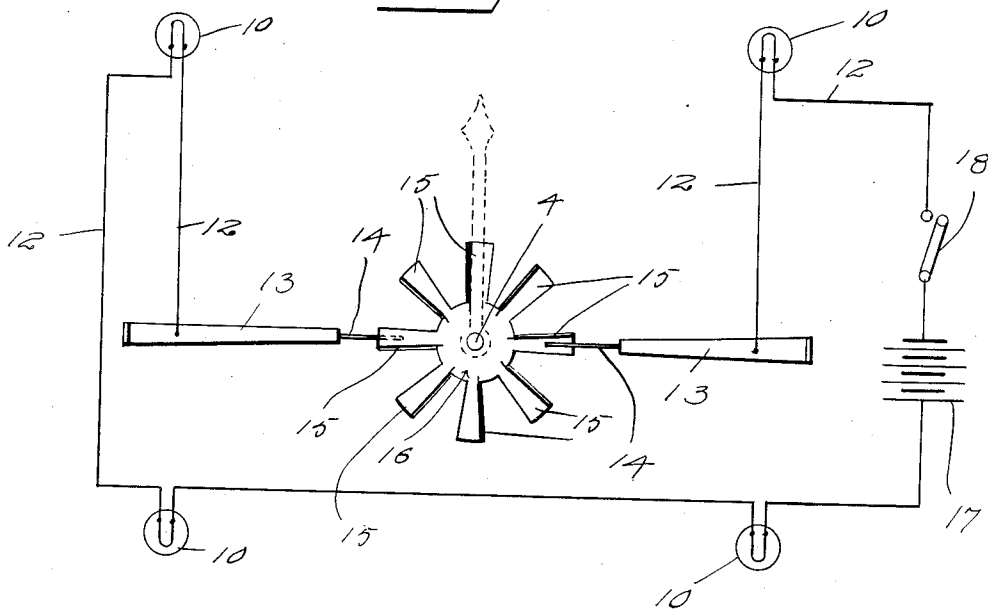
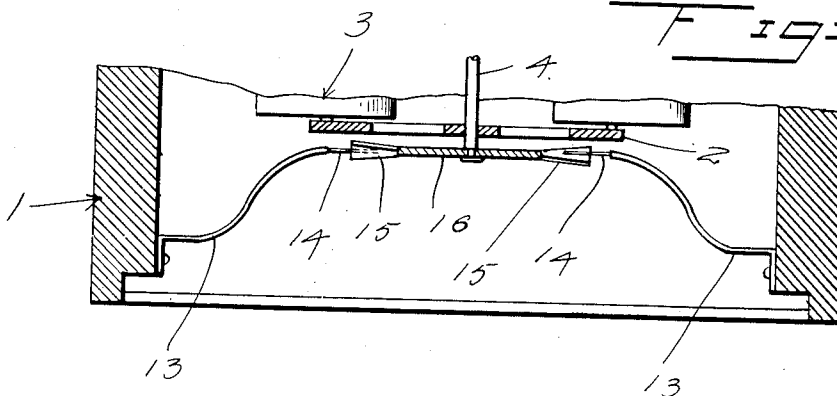


Fig. 4.



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UNITED STATES PATENT OFFICE.

MIKE DANDY, OF BURDINE, KENTUCKY.

ELECTRIC ILLUMINATED CLOCK DIAL.

Application filed May 8, 1920. Serial No. 379,869.

To all whom it may concern:

Be it known that I, MIKE DANDY, subject of the King of Italy, residing at Burdine, in the county of Letcher and State of Kentucky, have invented certain new and useful Improvements in Electric Illuminated Clock Dials; and I do hereby 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.

This invention relates to new and useful improvements in electric illuminated clock dials and has for its primary object the provision of means for automatically illuminating the dial or face of a clock at predetermined intervals so that the time may be easily read in the dark thereby obviating the necessity of lighting a light in order to see the time.

Another object of this invention is the provision of an electric illuminated clock dial of the above stated character, which will be simple, durable and efficient, and which may be manufactured and sold at a comparatively low cost.

With these and other objects in view as will become more apparent as the description proceeds, the invention consists in certain novel features of construction, combination, and arrangement of parts as will be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings, in which:—

Figure 1 is a front elevation illustrating an electrically illuminated clock dial constructed in accordance with my invention,

Figure 2 is a rear elevation with the cover removed illustrating a circuit closer,

Figure 3 is a diagrammatical view illustrating the wiring diagram,

Figure 4 is a fragmentary sectional view taken on the line 4—4 of Figure 2,

Figure 5 is a detail perspective view illustrating a circuit closer secured to the shaft of the minute hand,

Figure 6 is a fragmentary sectional view illustrating means of supporting the electric lamp on the casing of the clock,

Figure 7 is a sectional view taken on the line 7—7 of Figure 6.

Referring in detail to the drawings, the numeral 1 indicates a clock casing of any de-

sired design and has located therein a frame 2 for supporting the usual clock mechanism 3. The clock mechanism 3 has the minute hand shaft 4 extending rearwardly of the frame and also extending through the dial 5 on the front face 6 of the casing 1. Brackets 8 are secured to the face 6 about the dial 5 and are provided with sockets 9 to receive electric lamps 10. Contacts 11 are secured to the base 6 and engage the electric lamps and said contacts and brackets are connected to conductors 12 which connect the electric lamps in series and to resilient contact arms 13. The resilient contact members 13 are secured to the side walls of the casing 1 in rear of the frame 2 and are disposed horizontally and have formed on their free ends flexible contact elements 14 adapted to be engaged by radially extending fingers 15 formed on a disk 16. The fingers 15 and disk 16 form a circuit closer between the contact arms 13. The disk 16 is secured to the minute hand shaft 4 of the clock mechanism 3. The conductors 12 are also connected to a battery or other electrical source 17 and to a switch 18. The switch 18 is of any desired construction and is secured to the casing 1 whereby the device can be rendered operative and inoperative when desired.

The fingers 15 are so arranged that the electric lamps 10 will be illuminated about every eight minutes for a period of approximately thirty seconds when the switch 18 is closed and the clock mechanism 3 in operation.

The fingers 15 are bent longitudinally as illustrated in the drawings so as to catch the flexible ends 14 of the contact arms to cause an efficient electrical connection between said contact arms and to compel the flexible elements 14 to flex or bend when disengaging the pairs of fingers.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination, and arrangement of parts may be made without departing from the spirit and scope of the invention as claimed.

Having thus described my invention what I claim is:—

A circuit closer for illuminated clock dials comprising a pair of horizontally disposed contact arms connected to an electrical source and to illuminating mediums and

having their outer ends secured to the sides of a clock casing and having their inner ends spaced and reduced to provide flexible contact fingers, a disk secured to the minute hand shaft of the clock and arranged between the fingers, and radially extending pairs of contact blades formed on the periphery of the disk and the blades of each pair being oppositely disposed to engage and bridge the contact fingers, said blades being longitudinally curved to cause flexation of the fingers and thereby increase the pressure of the fingers against the blades to provide an effective electrical connection between said fingers and blades. 15

In testimony whereof I affix my signature in presence of a witness.

MIKE DANDY.

Witness:

BENNETT S. JONES.