Sept. 2, 1924. 1,507,195

J. W. MOORE

ILLUMINATED EMBLEM

Filed April 5, 1924

Fig. 1.

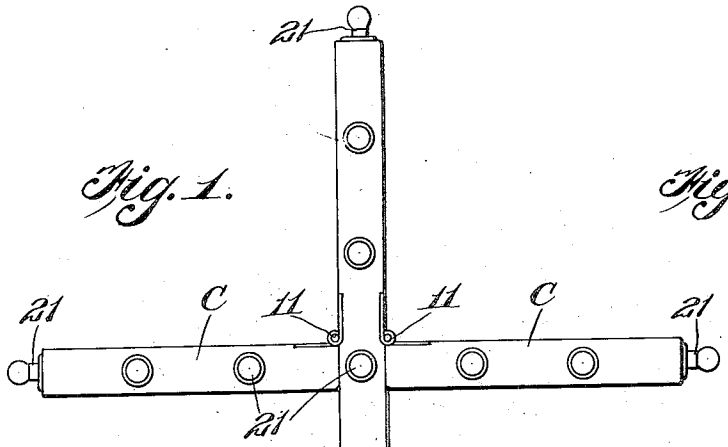


Fig. 2.

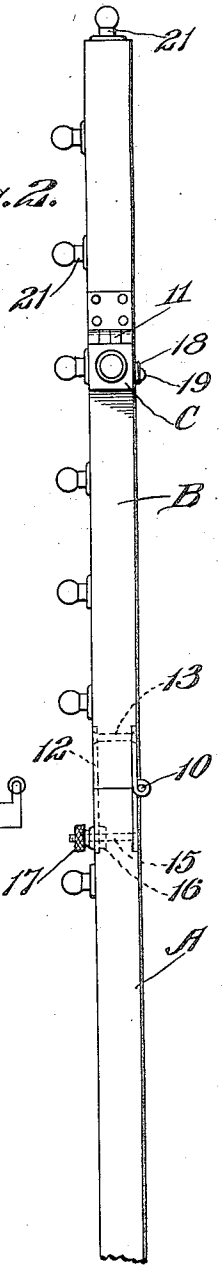


Fig. 3.

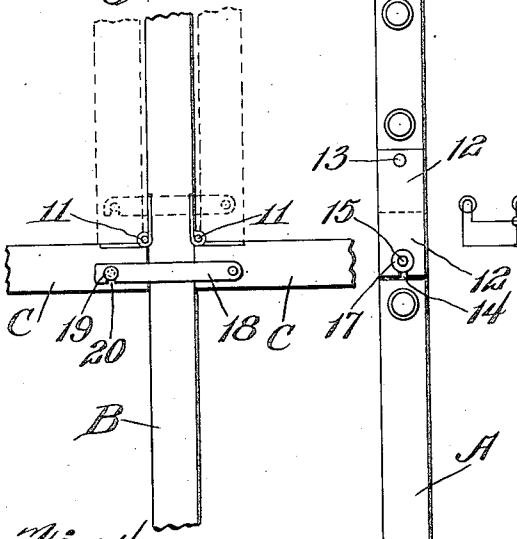


Fig. 5.

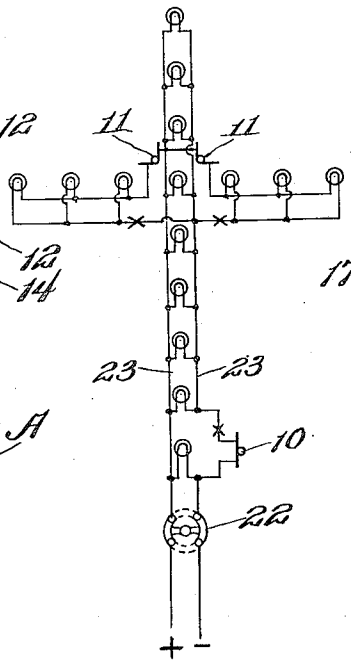
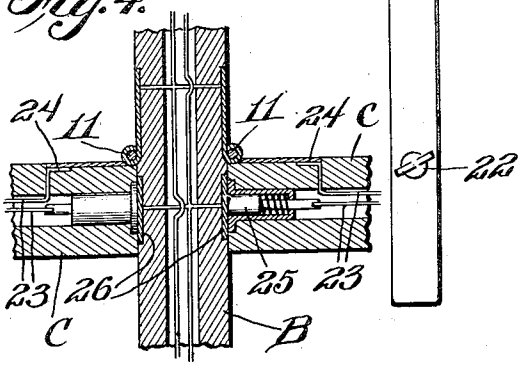


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN W. MOORE, OF CHARLESTON, WEST VIRGINIA.

ILLUMINATED EMBLEM.

Application filed April 5, 1924. Serial No. 704,543.

To all whom it may concern:

Be it known that I, JOHN W. MOORE, a citizen of the United States, residing at Charleston, in the county of Kanawha and State of West Virginia, have invented certain new and useful Improvements in Illuminated Emblems, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to improvements in illuminated emblems and more particularly to an electrically illuminated folding emblem.

An important object of the invention is to provide improved means for holding the sections of the folding emblem in assembled relation and for establishing between these sections electrical contact for completing the circuit of the illuminating elements carried by these sections.

A further object of the invention is to provide a novel and improved combined hinging and locking structure for connecting the sections.

These and other objects I attain by the construction shown in the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

Figure 1 is a front elevation showing an emblem constructed in accordance with my invention;

Figure 2 is a side elevation thereof;

Figure 3 is a fragmentary rear elevation, the cross arms being shown in the folded position;

Figure 4 is a vertical sectional view through the connection between the cross arms and vertical arm, showing the electrical connections therebetween;

Figure 5 is a wiring diagram showing one manner of making the connections.

Referring now more particularly to the drawings wherein for the purpose of illustration is shown a cross constructed in accordance with my invention. The stem of the cross is formed of two sections A and B and the cross arm thereof formed by two sections C arranged upon opposite sides of the section B and in alignment with one another. The sections A and B are connected to one another by a hinge 10 and these sections are of equal length, the hinge permitting swinging of the sections to either aligned position in which the ends thereof abut or a side by side relation. The sections C are connected to the section B by hinges 11 permitting movement of these sections to aligned relation in which position their adjacent ends abut opposite side faces of the section B or to parallel relation in which position they abut the side faces of the section B. The sections A and B are held in aligned relation by a clamping plate 12 which is arranged upon the opposite side face of the sections from the hinge 10 and is secured to one of the sections at one end by a securing element 13 attaching the one leaf of the hinge 10 to this section. The opposite end of the plate 12 projects beyond the end of the section to which it is attached and has formed therein a notch 14. The securing means for the other of the leaves of the hinge 10 includes a bolt 15 extending completely through the associated section and held in position by a countersunk nut 16. This bolt, as the sections A and B are swung into aligned relation, extends through the notch 14 of the plate 12 for engagement by a clamping thumb nut 17. When the thumb nut 17 is tightened the sections are rigidly held in aligned relation.

One of the sections C has pivoted thereto upon the vertical face thereof a bar 18 and the other of the sections C at a point equidistantly spaced from the pivot of the bar, when the sections are in aligned relation or in parallel relation, has a headed element 19 mounted therein. The bar 18 at a point similarly spaced from the pivot has formed in one edge thereof a notch 20 adapted to engage this securing element beneath the head thereof. This bar thus forms a means for securing the sections C to one another either in aligned or in parallel relation. Each of the sections A, B and C has mounted thereon sockets 21 for the reception of electrical illuminating elements. The section A has further mounted thereon a switch 22. Each section has embedded therein in the course of construction a pair of lead wires 23, each wire forming one side of a circuit for the socket of an illuminating element and in the case of the section A one of these wires is connected through the switch 22 so that this circuit may be broken.

Electrical connections between sections are established as follows: At the hinged connection of two sections one wire 23 of each section is brought into electrical connection with the attached leaf of the hinge 10 or 11 as the case may be, as indicated at 24. The other

wire of one of the hinged sections is electrically connected to a spring-pressed plunger 25 projecting through the wall of the section which is opposed by a wall of the section when the two sections are in operative relation, that is to say, the relation in which the desired emblem is formed. The other wire of the other of the sections is led to a contact plate 26 mounted upon the corresponding face of the other section at a point where it will be engaged by the spring-pressed plunger 25. It will be obvious that when the sections are moved into operative position the circuits thereof will be completed and illuminating elements mounted in the sockets will be rendered active. This system of connection permits the completed emblem to be folded to very compact form so that it may be readily transported from place to place. It will be further obvious that the construction herein shown is capable of a considerable range of change and modification without materially departing from the spirit of my invention and I accordingly do not limit myself to such specific structure as hereinbefore set forth except as hereinafter claimed.

I claim:—

1. A plurality of sections connected by hinges formed of conducting material swingable about the hinges thereof to a position where they combine to define an emblem or to a position where they are compacted for transportation, sections hinged to one another having portions abutting when the sections are in the emblem forming position, a socket for an electric illuminating element, circuit wiring for the socket carried by each section, the hinges connecting the sections electrically connecting the circuits at one side, and coacting contacts carried by said abutting portions for connecting the circuits at the opposite side.

2. A plurality of sections connected by hinges formed of conducting material swingable about the hinges thereof to a position where they combine to define an emblem or to a position where they are compacted for transportation, sections hinged to one another having portions abutting when the sections are in the emblem forming position, a socket for an electric illuminating element, circuit wiring for the socket carried by each section, the hinges connecting the sections electrically connecting the circuits at one side, and coacting contacts carried by said abutting portions for connecting the circuits at the opposite side, one of said coacting contacts comprising a spring-pressed plunger, the other of said contacts comprising a plate embedded in the surface of its section.

3. In a collapsible emblem, a stem section, a pair of sections hinged to the stem section at opposite sides thereof and swingable about the hinges thereof to parallel the stem section or to positions where they align one with the other and are disposed at an angle to the sections, and common means for locking said sections in both of said positions.

In testimony whereof I hereunto affix my signature.

JOHN W. MOORE.