M. COLE.

DISPLAY SIGN.

APPLICATION FILED OCT. 21, 1921.

1,429,408.

Patented Sept. 19, 1922.

Fig. 1

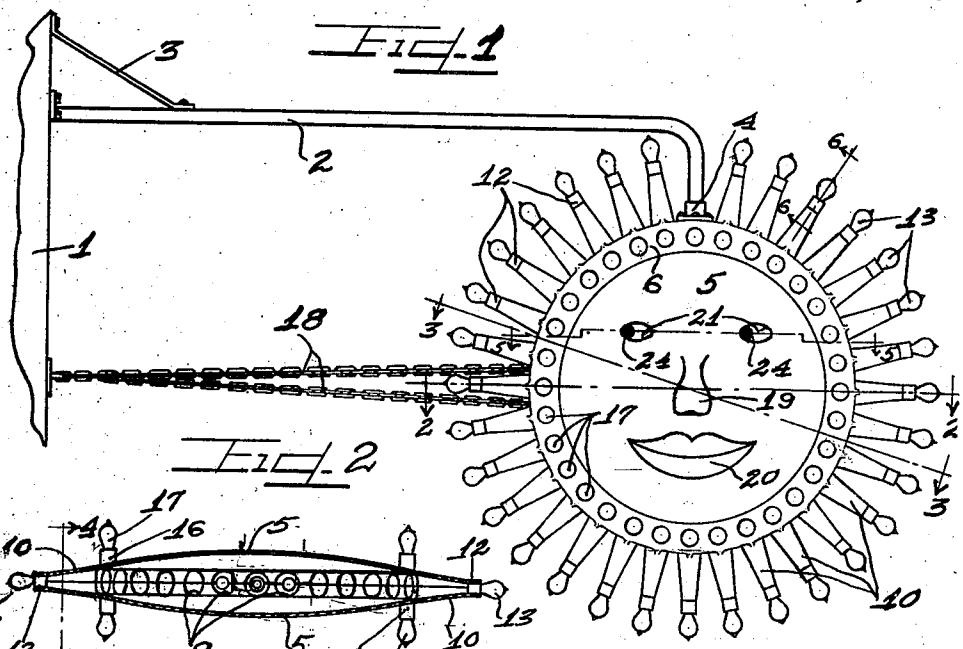


Fig. 2

Fig. 4

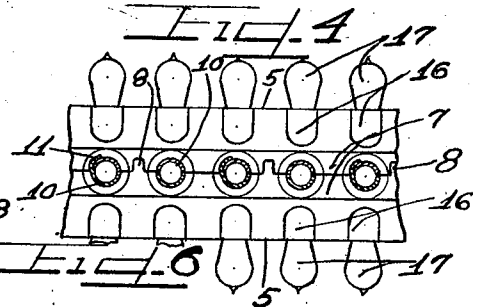


Fig. 3

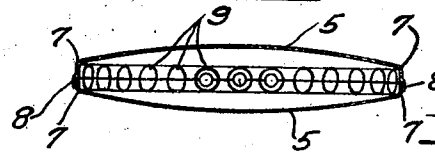


Fig. 6

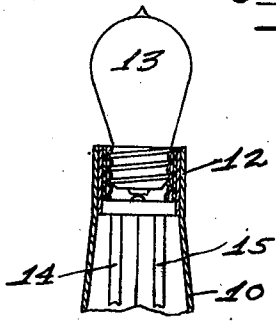


Fig. 7

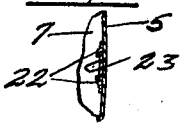
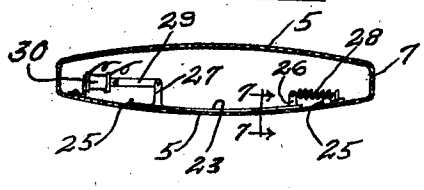


Fig. 5



Witnesses

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By Charles O. Fiddes Atty.

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UNITED STATES PATENT OFFICE.

MALCOLM COLE, OF CHICAGO, ILLINOIS.

DISPLAY SIGN.

Application filed October 21, 1921. Serial No. 509,283.

To all whom it may concern:

Be it known that I, MALCOLM COLE, a citizen of the United States, and a resident of the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Display Sign; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the numerals of reference marked thereon, which form a part of this specification.

This invention relates to an improved type of an electric display sign, wherein a circular housing having designs painted on opposite faces thereof, is provided with a circle of lights on the peripheral margins of each side thereof, and with a plurality of radial arms disposed on the periphery of the housing with each of said arms carrying a light.

It is an object of this invention to provide an improved electrically lighted display sign.

Another object is to provide a display sign with a peripheral row of arms having lights thereon adapted to illuminate both sides of the sign.

It is also an object of the invention to provide a display sign representing the face of the sun and having movable features adapted to be illuminated by circular rows of lights, certain of which are mounted to represent the rays of the sun.

It is an important object of this invention to provide a display sign representing the sun and adapted to be supported in place by a supporting bar and chains and illuminated by a peripheral circle of lights and by circles of side lights.

Other and further important objects of this invention will be apparent from the disclosures in the drawings and specification.

The invention (in a preferred form) is illustrated in the drawings and hereinafter more fully described.

On the drawings:

Figure 1 is an elevation of the display sign embodying the principles of this invention.

Figure 2 is a section taken on line 2—2 of Figure 1.

Figure 3 is a section taken on line 3—3 of Figure 1 with parts omitted.

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

Figure 5 is a detail section taken on line 5—5 of Figure 1 with parts omitted.

Figure 6 is an enlarged detail taken on line 6—6 of Figure 1.

Figure 7 is a fragmentary detail section taken on line 7—7 of Figure 5.

As shown on the drawings:

The reference numeral 1 indicates a wall of a building having one end of a supporting bar or pipe 2 rigidly secured thereto. A brace bar or strap 3 is secured to the wall 1 and to the supporting pipe 2. The outer end of the supporting pipe 2 is bent downwardly and is provided with a flanged collar 4 to which the display sign is secured.

The display sign is constructed to represent the sun and comprises two convex circular side plates or walls 5, each provided with a marginal ring 6 and with a peripheral endless flange 7 disposed at right-angles to the ring 6. One of the flanges 7 is provided with integral tongues or lugs 8 which overlap the other flange 7 and are brazed or soldered thereto to form a casing or housing. The two connected flanges 7 form a peripheral rim having a plurality of openings 9 therein, at spaced intervals around the entire rim. Positioned at each opening 9 is a radial outwardly directed tubular arm 10 formed of abutting half sections which are integrally formed on the flanges 7. Apertures are provided in alternate arm sections on one of the side plate flanges 7 for receiving tongues to lugs 11 integrally formed on alternate arm sections on the other plate flange 7. The sign sections of course may be secured together by any other suitable means other than that herein described. Each of the radial arms 10 is provided with an electric light socket 12 at its outer end for receiving an electric light bulb 13. Each socket 12 is connected by wires 14 and 15 with a source of electrical energy. The wiring 14 and 15 from the various sockets form a wire cable which is run in the supporting pipe 2.

Mounted in a circle on each of the side plate marginal rings 6 are a plurality of spaced electric light sockets 16 for receiving electric light bulbs 17 which project outwardly transversely of the sign and are connected by suitable wires with a source of electrical energy. To hold the sign stationary, two chains 18 are provided. The chains 18 are attached to the wall 1 and to the sign housing.

The lights 13 and 17 may be either plain or colored and may further be arranged to burn steady or alternately as desired. The convex outer surface of one of the housing side plates 5 is painted to illustrate eyes, a nose and a mouth to represent the face of the sun. The convex outer surface of the other housing side plate 5 has a nose 19 and a mouth 20 painted thereon and is provided with two openings 21 to represent eyes. Secured on the inner surface of the apertured side plates are two guide members 22 for holding a slide plate 23 in place. The slide plate 23 has eye balls 24 painted thereon. Stops 25 are provided on the inner face of the apertured side plate 5, to limit the movement of the slide plate 23. Arms 26 and 27 are formed on opposite ends of the slide plate 23. Connected to the arm 26 is one end of a coiled spring 28, the other end of which is attached to a stationary lug on the inner face of the apertured side plate 5 as illustrated in Figure 5. The spring 28 normally acts to pull the eye slide 23 to one side to position the eye balls 24 at one end of the eye openings 21. Connected to the arm 27 is one end of a link 29, the other end of which is connected to a solenoid 30 which when energized acts to pull the eye slide 23 across the eye openings against the action of the spring 28 to move the eye balls 24 into the position illustrated in Figure 1. The slide 23 may thus be moved back and forth to give the appearance of moving eyes. If preferred, both sides of the sign may be provided with movable eyes or if desired, both sides of the sign may be painted omitting the movable facial features. The radially extending arms 10 are painted to represent sunrays. Any suitable words may be painted on the sign for advertising purposes.

I am aware that numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted, otherwise than necessitated by the prior art.

I claim as my invention:

1. A display sign comprising a pair of convex side plates, radial arm sections integrally formed on the periphery of each side plate, means for securing the side plates and the arm sections together to form a housing with radial arms, a ring of projecting light sockets mounted on each side plate, a light in each light socket, a light socket mounted in the outer end of each radial arm, and a light in each radial arm socket.

2. An electric display sign representing the sun and comprising curved side plates, the margins of which are bent toward one another and fastened together to afford a rim, hollow radial arms formed on said rim, electric lights supported at the ends of said arms, a face on the outer surface of each side plate, a circle of lights on each side plate around the face thereon, and means for supporting the sign.

3. A display sign comprising side sections, radial arm sections integral therewith, means for securing the side sections and the radial arm sections thereof together to form a housing, a supporting member attached to said housing, chains connected with the housing to hold the same against movement, lights mounted on the ends of said radial arm sections, a circle of lights on each side section, and a face on each side section inside of the circle of lights.

4. A display sign comprising a housing made up of side sections rigidly secured to one another, a plurality of radially projecting arms on the periphery of said housing, lights carried by said arms, a circle of lights mounted on each side section, one of said side sections having eye openings therein, a nose and mouth painted on said apertured side section, a plate slidably mounted in said housing behind said eye openings, eye balls painted on said slide plate to be displayed at said eye openings, and means for shifting said slide plate to give the appearance of moving eyes.

In testimony whereof I have hereunto subscribed my name in the presence of two subscribing witnesses.

MALCOLM COLE.

Witnesses:

CARLTON HILL,

JAMES M. O'BRIEN.