C. A. CHRISTOFFERSON.

ILLUMINATED SIGNAL.

APPLICATION FILED MAR. 31, 1921.

1,422,669.

Patented July 11, 1922.

2 SHEETS—SHEET 1.

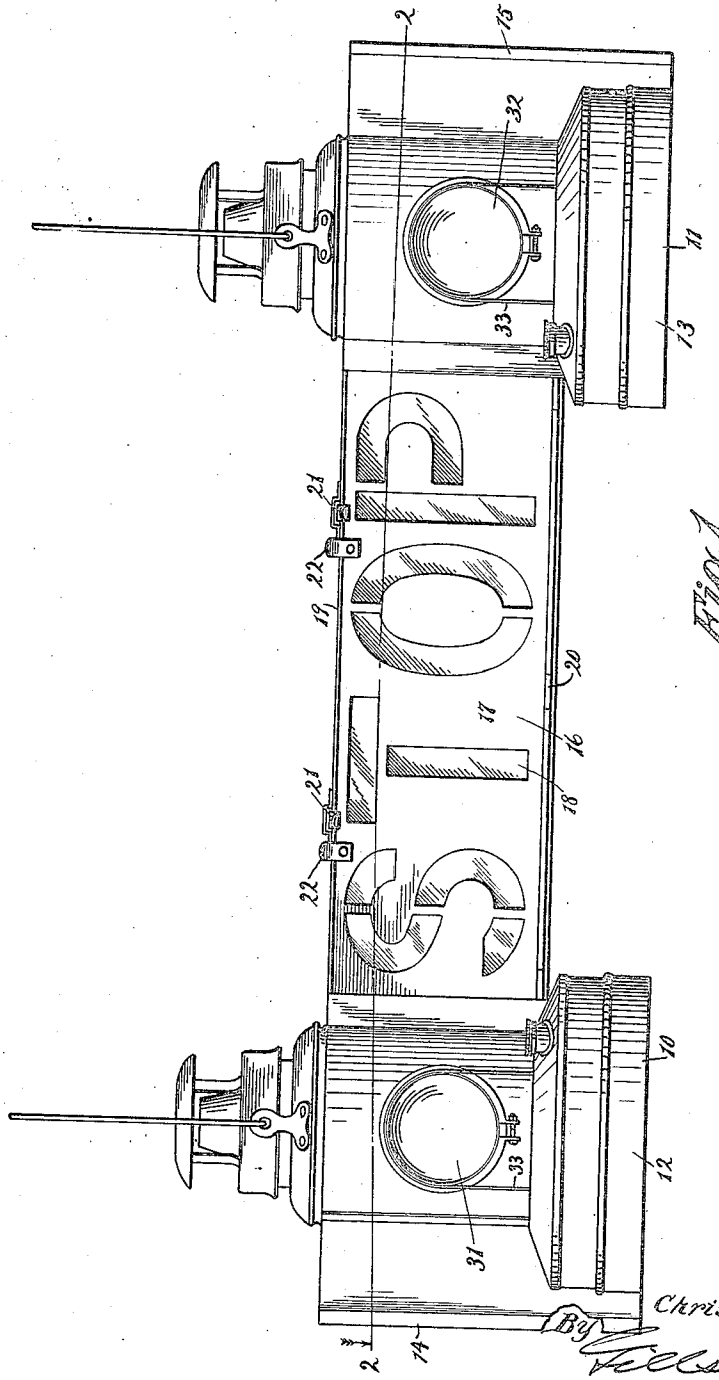


Fig. 1.

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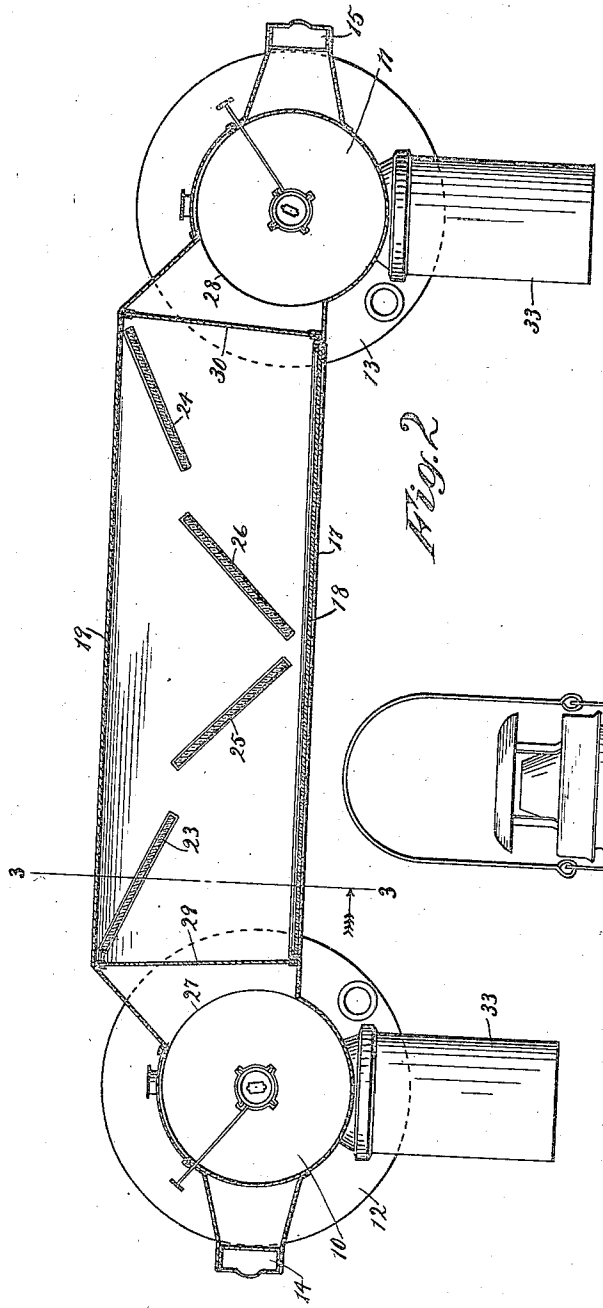


Fig. 2.

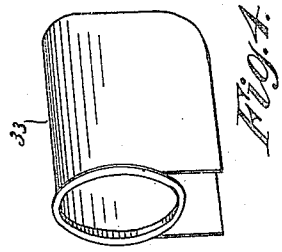


Fig. 4.

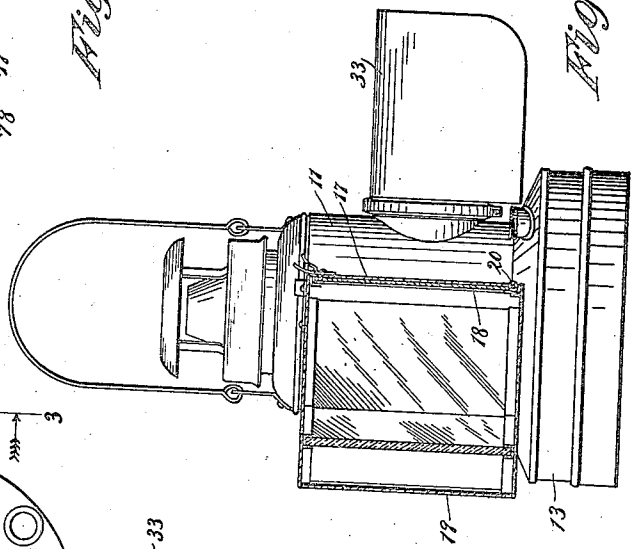


Fig. 3.

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UNITED STATES PATENT OFFICE.

CHRISTIAN A. CHRISTOFFERSON, OF ST. PAUL, MINNESOTA.

ILLUMINATED SIGNAL.

1,422,669. Specification of Letters Patent. Patented July 11, 1922.

Application filed March 31, 1921. Serial No. 457,281.

To all whom it may concern:

Be it known that I, CHRISTIAN A. CHRISTOFFERSON, a citizen of the United States, and resident of St. Paul, county of Ramsey, and State of Minnesota, have invented certain new and useful Improvements in Illuminated Signals, of which the following is a specification, and which are illustrated in the accompanying drawings, forming a part thereof.

The invention relates to signals, and has as an object the provision of a signal with letters uniformly illuminated by two lamps each of which may show a danger signal in addition to illuminating the letters, all of said signals being faced in the same direction.

An illustrative embodiment of the invention is shown in the accompanying drawings, in which—

Fig. 1 is a front elevation;

Fig. 2 is a horizontal section on line 2—2 of Fig. 1;

Fig. 3 is a vertical transverse section on line 3—3 of Fig. 2; and

Fig. 4 is a perspective view of a shield.

To illustrate the signal there are shown two lamps 10, 11, preferably having oil reservoirs 12, 13, to operate for long periods of time without attention. Each lamp is shown as provided with a socket, as 14, 15, to be placed over supports.

The signal 16 to be illuminated, which may comprise letters cut out of sheet metal 17, backed by translucent glass 18, is shown as forming the front of a casing 19 extending between the lamps 10, 11. The ends of the casing may be connected to the lamp bodies and serve to unite them. Preferably the front panel of the casing bearing the signal is hinged to the casing, as at 20, latches 21 being supplied to keep the front closed, and handles 22 for manipulation of the hinged panel.

The chamber of the casing 19 is open to the bodies of the lamps, which are apertured as indicated at 27, 28. Preferably a transparent screen 29, 30, is interposed between the chamber of the casing and each lamp to prevent smoke from entering the casing or air currents, which might circulate through the casing, from interfering with the draft of the lamp.

A series of reflectors, as 23, 24, 25 and 26, are placed within the casing 19, one being associated with each character of the signal, and so arranged as to reflect the light from one of the lamps directly upon such character.

In the embodiment of the invention as shown in the drawings, the signal consists of the word "Stop," and as this word is composed of four letters a corresponding number of reflectors are provided in the casing. As no light rays are thrown directly from the lamp burner upon any of these letters, each is illuminated only by means of the reflector associated with it, and suitable reflectors being used the illumination of all of the letters is uniform.

In addition to the signal carried by the casing 19, each of the lamps may be provided with a lens at 31, 32, facing in the same direction as the casing signal and preferably being given the usual red color. A shield or hood, as 33, may be clamped over each of the lenses 31, 32, thus rendering them visible only from a face view and preventing the colored rays from a lateral diffusion which would tend to decrease the visibility of the signal carried by the casing.

Many changes may be made in the physical embodiment of my invention without departing from the spirit thereof.

I claim as my invention—

1. A signal comprising, in combination, a casing, a lamp at each end of said casing adapted to illuminate its interior, a signal in the front of said casing out of range of the direct rays from said lamp and comprising a plurality of diaphanous characters, a plurality of reflectors in the casing each arranged to receive the direct rays from one of said lamps and to reflect such rays upon one of the signal characters, and signals separate from said first-named signal, each illuminated by direct rays from one of said lamps.

2. A signal comprising, in combination, a pair of lamps, diaphanous signal characters between said lamps adjacent thereto and out of range of direct rays therefrom, and means to separately illuminate each of said characters by reflected light from one of said lamps.

CHRISTIAN A. CHRISTOFFERSON.