O. R. TUCKER.

FLASH LAMP.

APPLICATION FILED APR. 25, 1913.

1,099,475. Patented June 9, 1914.

Fig. 1

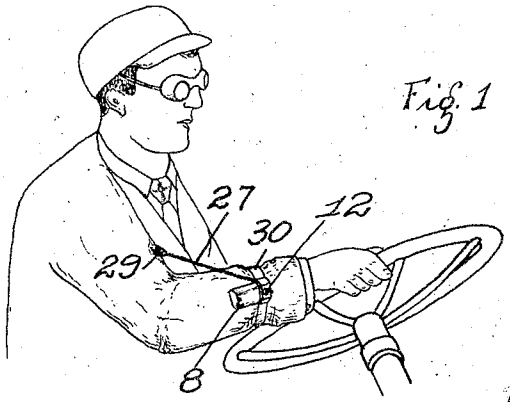


Fig. 2

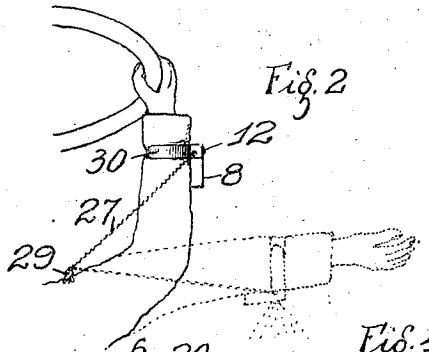


Fig. 3.

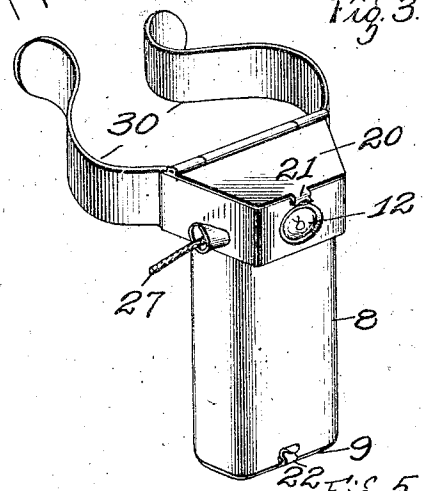


Fig. 4

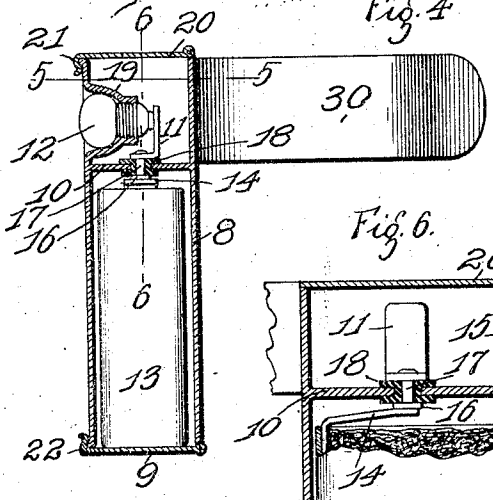


Fig. 5.

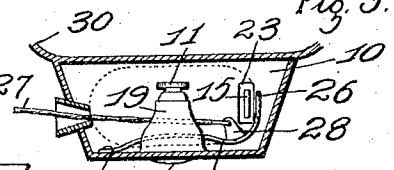


Fig. 6.

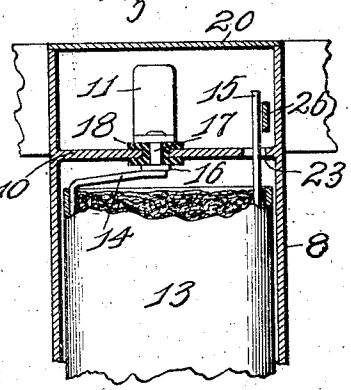
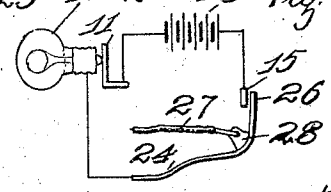


Fig. 7.



Witnesses

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UNITED STATES PATENT OFFICE.

OTTO R. TUCKER, OF ST. LOUIS, MISSOURI.

FLASH-LAMP.

1,099,475. Specification of Letters Patent. Patented June 9, 1914.

Application filed April 25, 1913. Serial No. 763,660.

To all whom it may concern:

Be it known that I, OTTO R. TUCKER, a citizen of the United States, and resident of St. Louis, Missouri, have invented certain new and useful Improvements in Flash-Lamps, of which the following is a specification.

This invention relates to improvements in a signal device, and has for its object a mechanism arranged to be detachably secured to the arm of a person, and a means for closing an electric circuit for illuminating a flash lamp by a straight or outstretched motion of the arm.

A further object of my invention is to provide a flash lamp in proper connection with a battery, the same being arranged to be detachably applied on the wrist or fore-part of the arm of a person, and a means whereby contact is made and the light flashed by an outstretched position of the arm.

Figure 1 is a view of my invention shown in position on the arm of a chauffeur, or automobile driver. Fig. 2 is a detail view showing the same in top plan, and in operative lighting position by dotted lines. Fig. 3 is a detail perspective view of my invention. Fig. 4 is a central sectional view of the same. Fig. 5 is a horizontal sectional view taken on the line 5—5 of Fig. 4. Fig. 6 is an enlarged sectional view taken on the line 6—6 of Fig. 4. Fig. 7 is a diagrammatic view showing the electric circuit.

The invention in detail consists of a battery housing 8 provided with a hinged bottom 9, and in the battery housing is a partition 10 in which is located a central contact 11, with which communicates the flash-lamp 12. In this battery housing is located a battery 13 provided with a horizontal contact 14, and a vertical contact 15, this battery being of the ordinary construction, and the horizontal contact 14 arranged of spring material so that its end will remain in constant contact with a disk or plate 16 connected to a post 17, which in turn is in rigid connection with the center contact 11; these parts being insulated from the horizontal partition 10 by insulating material 18 (see Figs. 4 and 6). Above the horizontal partition 10 is located a flash lamp 12, which is seated in a socket 19, and as before stated, the base of the lamp is in constant connection with the contact 11, the socket 19 being suitably depressed so as to permit the outer surface of the bulb of the flash lamp to be approximately flush with the casing, which acts as a safe-guard and prevents the bulb from being broken.

The upper portion of the housing is provided with a hinged cover 20, its forward end provided with a latch 21 for holding said cover in closed position, and the hinged bottom 9 is likewise constructed, having a spring latch 22 which holds the battery in proper relation with the contacts.

In the horizontal partition 10 is provided an opening 23 through which the vertical contact 15 projects, and in the upper compartment of the battery casing, and conveniently located, is a spring contact 24, its end 25 riveted, or otherwise secured to the casing, while its free end 26 is arranged to be brought in contact with the vertical contact strip 15, and operation is imparted in order to bring the parts into communication, by a cord, or like device 27 attached to an ear or projection 28 formed on the spring contact 24. The opposite end of the cord is provided with a clamp or fastening device 29, by which said cord is conveniently attached to the garment of the operator, and the end 26 is only brought in communication with the contact strip 15 by the straightening or outstretching of the arm as shown by dotted lines in Fig. 2.

The device is held in position on the wrist or forepart of the arm of the operator by the spring arms 30, and said spring arms are of such resiliency as to fit over the wrist or forepart of the operator's arm without in any way discommoding the movement of the arm. I do not desire to limit myself to this manner of fastening the apparatus to the arm. I may equip the device with a strap, or band which can be adjusted on the arm, or by means of a pin, which can be passed through the garment or coat sleeve, or other fastening mechanism, which I might find to be most convenient, comfortable and desirable.

The essential feature of my invention is to equip a device to be used by chauffeurs, and to be conveniently placed on the wrist or fore-part of the arm, and by properly adjusting the cord, a contact is created and a flash light given as a signal to the driver of a following automobile, by merely outstretching the arm, thus indicating to the following chauffeur that the party giving the signal either desires to stop, or turn to the right or left as is his intention; these

signals of course are governed by rules laid down by ordinances governing automobile traffic.

Another feature of the device is that the light is automatically flashed by the straightening of the arm, and gives the chauffeur ample light on the mechanical parts of the machine when it is necessary for him to work on the engine to repair any of the parts, and the light will remain in constant illumination as long as the arm is in approximately a straight position.

Having fully described my invention, what I claim is:

1. A signal device comprising an elongated battery housing, a battery located therein, a flash-lamp located in said housing, a contact point located in the battery housing connecting said battery with the flash-lamp, a spring contact located in the battery housing for completing a circuit and a flexible connection whereby the spring contact is operated for closing a circuit, and a clamping means located on the housing for supporting the device, substantially as specified.

2. A signal device comprising a battery housing, a partition located therein, a battery located in the lower part of said housing, a flash-lamp supported in the upper part of said housing, a contact located on the partition and contacting with the flash-lamp and one pole of the battery, a spring contact located in the upper portion of the housing and arranged to be brought in contact with the second pole of the battery, and a clamping means located on the housing by which the device is supported preferably on the fore-arm of a person, substantially as specified.

3. A signal device comprising a battery housing, a partition located therein, a battery located in the lower portion of the housing, a flash lamp located in the upper portion of the housing and above the partition, a hinged bottom located on the under side of the housing, a hinged top located on the upper end of the housing, a contact located on the partition communicating with the flash lamp and one pole of the battery, a spring contact mounted in the upper portion of the housing and arranged to be brought in contact with the opposite pole of the battery, a clamp connected to the battery housing by which the device is supported and a cord connected to the spring for completing a circuit in order to illuminate the lamp, substantially as specified.

4. A signal device of the class described comprising a battery housing, a battery located in the lower portion thereof, a flash lamp located in the upper portion thereof, a contact connecting the flash lamp with one pole of the battery, a spring contact located in the upper portion of the housing and arranged to contact with the opposite pole of the battery, a hinged door located on the bottom of the housing, a hinged door located on the top of the housing, a clamping means whereby the housing is supported and a cord by which the spring contact is operated for completing a circuit for illuminating the lamp, substantially as specified.

5. A signal device comprising an elongated approximately rectangular casting; a partition located therein forming two compartments, a battery located in the lower compartment, a flash lamp supported in the upper compartment, spring arms radiating from the upper compartment; a contact supported on the partition with which one pole of the battery and flash lamp contacts, a spring contact located in the upper compartment and arranged to communicate with the opposite pole of the battery, and a cord connected to the spring contact and passing through the upper compartment and designed to be attached to the arm of the user, by which contact is completed by the outstretching of the arm, and the flash lamp illuminated, substantially as specified.

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses.

OTTO R. TUCKER.

Witnesses:

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WALTER C. STEIN.