

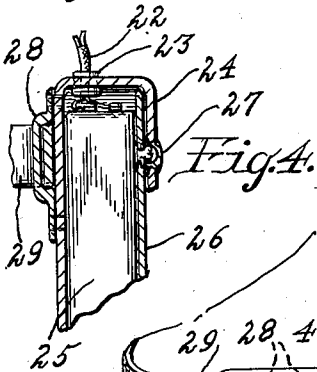
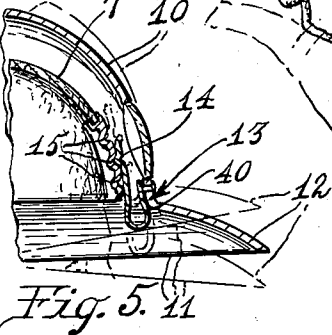
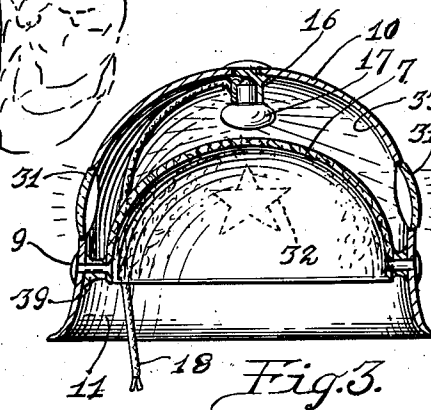
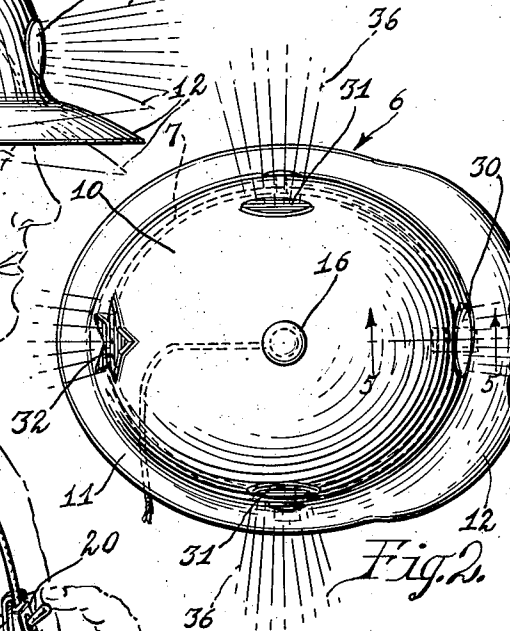
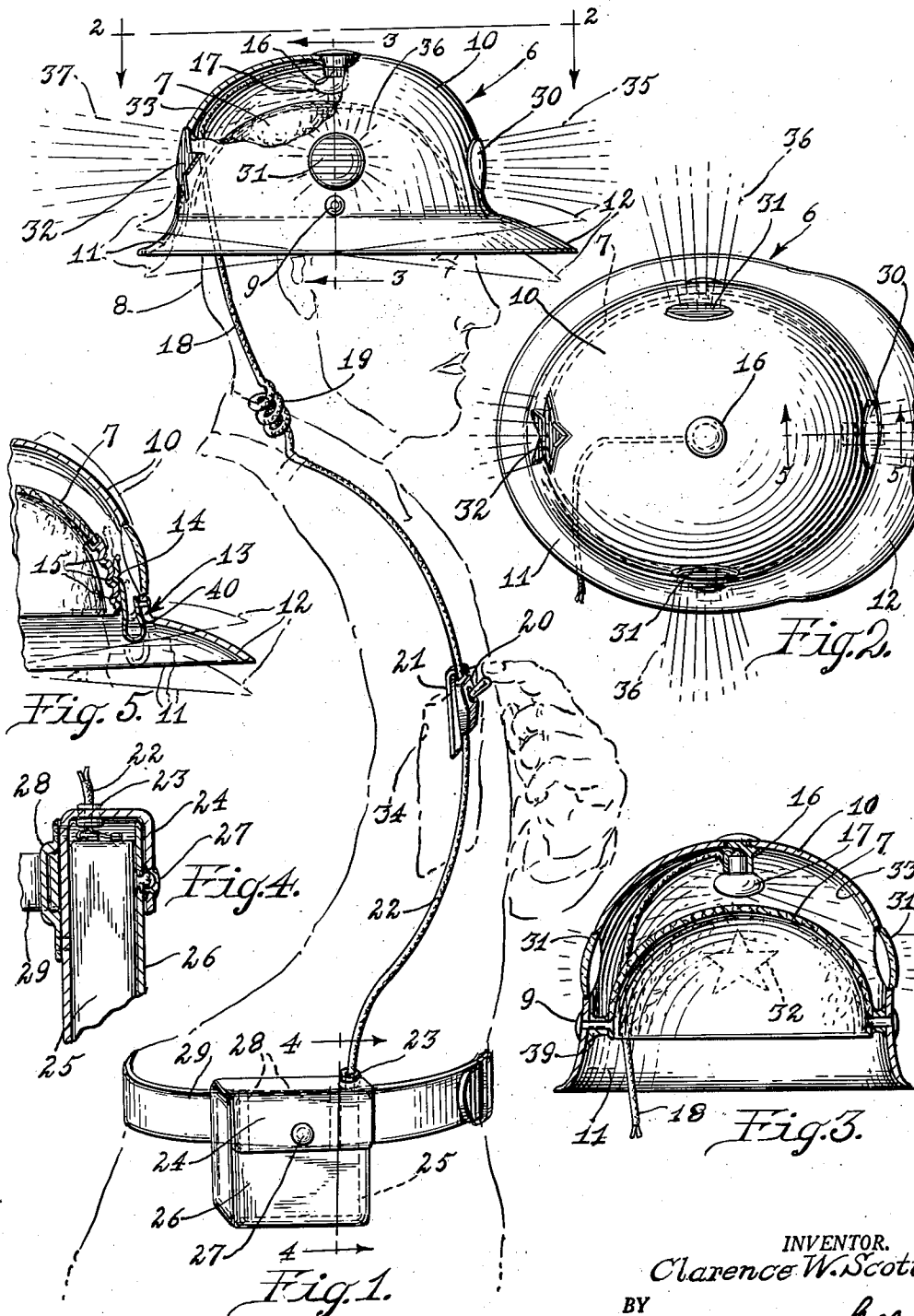
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SAFETY HEADGEAR FOR PEDESTRIANS AND WORKMEN

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SAFETY HEADGEAR FOR PEDESTRIANS
AND WORKMEN

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5 Claims. (Cl. 177-329)

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My invention relates to safety hats and in particular to safety hats that are provided with warning lights for wearing in darkened places or at night.

An important object of my invention is to provide a safety hat having front, side and rear lenses of transparent and translucent material for transmitting beams of various colors of light for warning purposes.

A further object of my invention is to provide a safety hat having a pivotably mounted outer shell or helmet which is adjustable to different angular planes in order to throw beams of light in the same plane in which the wearer is traveling, whether up an incline, on a level, or down an incline.

A still further object of my invention is to provide an adjustable catch means to maintain the outer shell in the desired angular adjustment in relation to the said skull cap means.

A further object of my invention is to provide illuminating means for the said safety hat preferably consisting of an electric light bulb mounted therein, together with switch means and portable battery means.

A still further object of my invention is to provide a safety hat, the outer shell or helmet of which will also serve as protection against weather and as a shade or protection from bright lights and glare.

Other objects and advantages embraced in my invention will be disclosed in the following description and in the accompanying illustrations in which like parts are designated by like numerals, and in which;

Fig. 1 is a side view of my safety hat, together with switch and battery means shown being worn by a figure drawn in phantom line; and with parts cut away to show the interior construction of my invention.

Fig. 2 is a top view of my invention taken looking in the direction of lines 2-2 on Figure 1.

Fig. 3 is a cross-sectional view of my invention taken substantially on line 3-3 on Figure 1.

Fig. 4 is an enlarged, fragmentary, cross-sectional view of the battery means of my invention taken substantially on line 4-4 on Figure 1.

Fig. 5 is a fragmentary, cross-sectional view of the adjustable catch means of my invention taken substantially on line 5-5 on Figure 2.

Referring to the illustrations, my invention is generally designated 6 and consists of a skull cap 7 made preferably of leather or a like material. Said skull cap 7 is formed to fit the head 8 of the wearer, and may be made in the various

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sizes required. A helmet or shell 10 preferably made of a plastic material is pivotably mounted over the skull cap 7 by means of rivets 9 and spacers 39 in the sides thereof. The said helmet 10 is of a somewhat greater diametral proportion than the skull cap 7 to provide ventilation therebetween. The rim portion 11 of helmet 10 is formed outwardly and is further formed into a visor portion 12 at the front.

An adjustable catch means 13 consists of a length of flat spring 40 which is formed in a U shape as shown in Figure 5, one end of which is attached to helmet 10. The other or free end of the said spring 40 is provided with a hump 14, to engage one of a number of mating dimples 15, of metal or plastic which are mounted in a mating position upon the front of the said skull cap 7. Said adjustable catch 13 together with mating dimples 15, provides an adjustment means between the helmet 10 and skull cap 7 so that said helmet 10 may be worn in a number of angular positions or planes as shown in Figures 1 and 5.

A light socket 16 containing a light bulb 17 is mounted within the helmet 10, preferably in the center, as shown in Figure 1 and connected by means of light cord 18 to a light switch 20, which may be worn upon a convenient pocket 34 held thereon by an attached pocket clip 21. An electric cord 22 connects the said switch 20 to a battery means 25, which is carried within a battery case 26 attachable by means of loops 28 to a belt 29. The said cord 22 passes through a bushing 23 in the flap cover 24 of the said battery case 26, which is held shut by means of a snap fastener 27.

The light cord 18 may be provided with a number of adjusting coils 19 to allow for head movement and for helmet adjustment. The inside of helmet 10 may be provided with a reflector surface 33 to reflect light from the electric light bulb 17 through a number of transparent and translucent lenses preferably mounted in the front sides and rear of the said helmet 10. The front lens 30 is preferably transparent. The two side lenses 31 are preferably translucent and of a recognizable safety color such as green. The rear lens 32 is preferably translucent and of a recognizable warning color such as red. The said lens 32 may be of a different and distinguishing shape such as a star, as illustrated.

A principal use of my illuminated safety hat 6 is for workers in dark places such as subways and tunnels, and for pedestrians at night, in which the hat is worn upon the head 8 as il-

illustrated in Figure 1 and is electrically connected to a battery means 25 and a switch means 20 fastened at convenient locations upon the body. When the said electric light 17 is turned on, beams of light are thrown from each of the lenses 30, 31 and 32. The transparent lens 30 throws a beam of light 35 forward which besides being a warning light, serves to provide general illumination for the wearer. The two side translucent lenses 31 throw colored lights 36 such as green, and the rear translucent lens 32 throws a colored light 37 such as red. The said adjustable catch 13 provides adjustment means between the helmet 10 and skull cap 7 so that the said helmet 10 may be maintained in a position parallel with the surface over which the wearer is traveling, in order to throw visible warning light beams in the direction and angle that may be seen by vehicles or other pedestrians in the vicinity. The visor 12 furthermore serves to protect the eyes from the glare of oncoming headlights.

Although my invention has been described, the terms used are to be deemed terms of description rather than terms of limitation, my intention being to retain the right to all mechanical equivalents of the structural elements depicted, provided they fall within the purview of the appended claims.

Having thus disclosed and revealed my invention, what I claim as new and desire to secure by Letters Patent is:

1. A safety hat for workers, pedestrians and the like comprising, a skull cap, a helmet pivotally secured to the said skull cap on its transverse axis, adjustable catch means retaining the said helmet in adjustable relationship to the said skull cap, light means secured to the said helmet at its interior central portion, battery means securable to a belt worn by a person, switch means, electrical connecting means interconnecting the said switch means to the said light means and the said battery means at an intermediate point, and varicolored visual signal means secured at front rear and sides of the said helmet diffusing rays of light.

2. A safety hat for workers, pedestrians and the like comprising, a skull cap, a helmet pivotally secured to the said skull cap on its transverse axis, adjustable catch means retaining the said helmet in adjustable relationship to the said skull cap, light means secured to the said helmet at its interior central portion, battery means securable to a belt worn by a person, switch means, electrical connecting means interconnecting the said switch means to the said light means and the said battery means at an intermediate point, and varicolored visual signal means secured at front rear and sides of the said helmet diffusing rays of light, and reflector means interiorly of the said helmet and rearwardly of the said light means to concentrate and direct the rays of light toward the said visual signal means.

3. A safety hat for workers, pedestrians and the like comprising, a skull cap, a helmet pivotally secured to the said skull cap on its transverse axis, adjustable catch means retaining the said helmet in adjustable relationship to the said skull cap, light means secured to the said helmet at

its interior central portion, battery means securable to a belt worn by a person, switch means, electrical connecting means interconnecting the said switch means to the said light means and the said battery means at an intermediate point, varicolored visual signal means secured at front rear and sides of the said helmet diffusing rays of light, battery case means retaining removably the said battery means, and belt means supporting slidably and adjustably the said battery case means, the said electrical connecting means being provided with extensible and compressible coil means to compensate for the movements of the head of a person wearing the said safety hat.

4. A safety hat for workers, pedestrians and the like comprising, a skull cap, a helmet pivotally secured to the said skull cap on its transverse axis, adjustable catch means retaining the said helmet in adjustable relationship to the said skull cap, light means secured to the said helmet at its interior central portion, battery means securable to a belt worn by a person, switch means, electrical connecting means interconnecting the said switch means to the said light means and the said battery means at an intermediate point, varicolored visual signal means secured at front rear and sides of the said helmet diffusing rays of light, battery case means retaining removably the said battery means, and belt means supporting slidably and adjustably the said battery case means, the said electrical connecting means being provided with extensible and compressible coil means to compensate for the movements of the head of a person wearing the said safety hat.

5. A safety hat for workers, pedestrians and the like comprising, a skull cap, a helmet pivotally secured to the said skull cap on its transverse axis, adjustable catch means retaining the said helmet in adjustable relationship to the said skull cap, light means secured to the said helmet at its interior central portion, battery means securable to a belt worn by a person, switch means, electrical connecting means interconnecting the said switch means to the said light means and the said battery means at an intermediate point, varicolored visual signal means secured at front rear and sides of the said helmet diffusing rays of light, reflector means interiorly of the said helmet and rearwardly of the said light means to concentrate and direct the rays of light toward the said visual signal means, battery case means retaining removably the said battery means, and belt means supporting slidably and adjustably the said battery case means, the said electrical connecting means being provided with extensible and compressible coil means to compensate for the movements of the head of a person wearing the said safety hat.

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