F. S. COLLIER.

ILLUMINATED HEAD COVERING.

APPLICATION FILED SEPT. 9, 1913.

1,096,285. Patented May 12, 1914.

Fig. 1

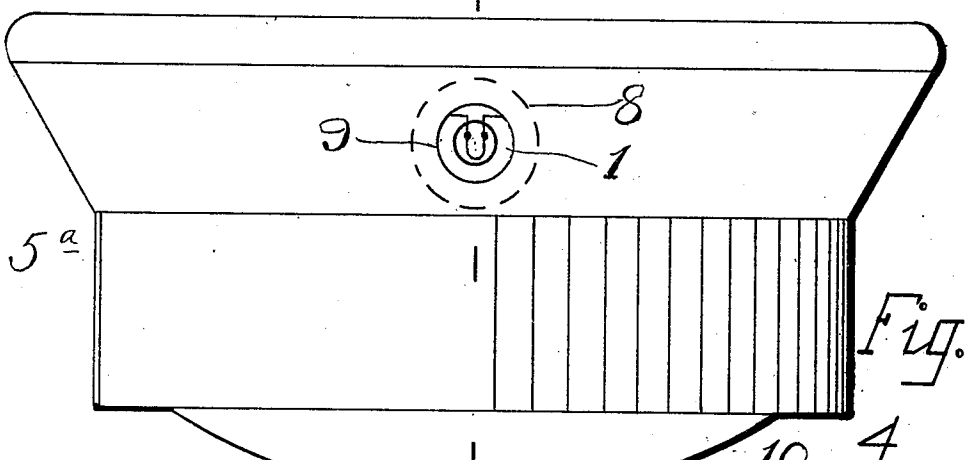


Fig. 2

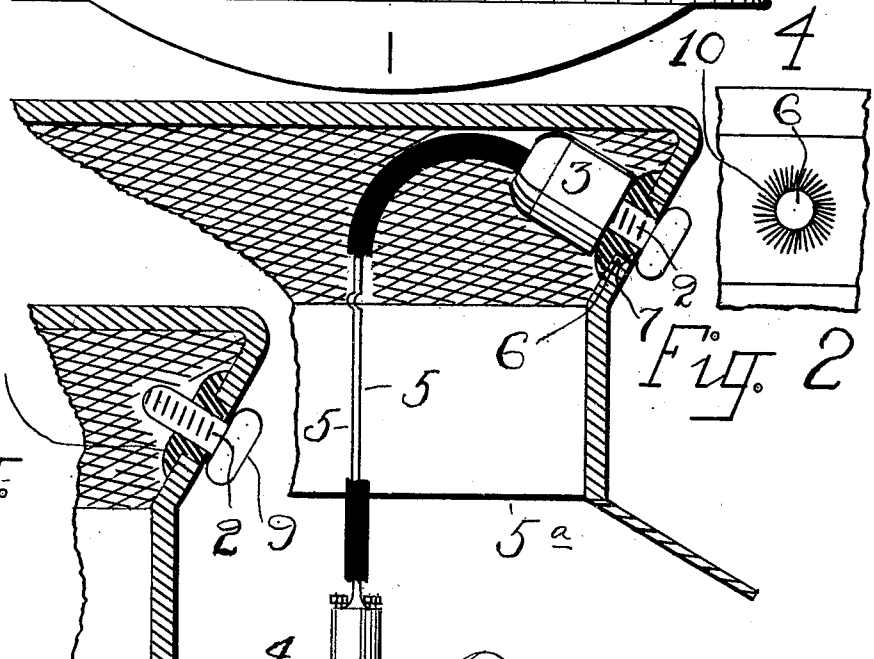
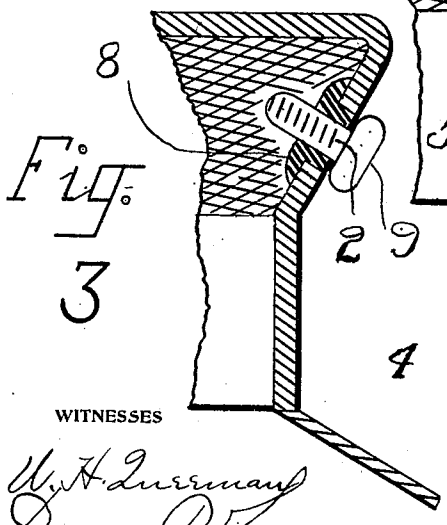


Fig. 3



WITNESSES

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ILLUMINATED HEAD-COVERING.

1,096,285. Specification of Letters Patent. Patented May 12, 1914.

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To all whom it may concern:

Be it known that I, FRANK S. COLLIER, a citizen of the United States, residing at Fremont, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Illuminated Head-Coverings, of which the following is a specification.

My improvement relates more particularly to that sort of head-coverings worn by bandsmen when in uniform, and by miners when working in dark places; and its general purpose and object is, to provide such an arrangement as may be more easily carried, and be less cumbersome, and more presentable in appearance than the devices now in common use, and withal, will be more simple.

Referring to the drawings: Figure 1 represents a front view of a cap, with means of illumination showing at the center; Fig. 2 represents a cross section through the front of the cap upon the line "A"; Fig. 3 represents a portion of the same cross section, with parts of the lamp removed; and Fig. 4 represents a worked eyelet.

Coming now to a more detailed description of my invention: as a means of illumination I use a miniature incandescent lamp 1, of which 2 is the base, and 3, the socket. The lamp is fed from a suitable dry battery 4, as a source of electrical energy, through insulated wires 5. All the several parts of said lamp, including the battery and connections, are the same in construction, as those now in common use and upon sale in the market; and hence, no further description is given, or thought necessary. For the purpose of mounting said lamp upon the cap 5^a, I provide the front thereof with an eyelet 6, and within which I dispose a tubular stud 7, which is provided with a head 8. Said stud may be of any suitable material; but preferably I use one having insulatable properties. In practice I use a rubber stud, of a slightly yielding consistency, and so coadapt the same together with the length of said base, to the thickness of said cap, so that when said base is made to engage said socket and produce electrical contact, said stud will be compressed between said socket upon the inside of the cap, and the globe 9 upon the outside. In order that both said lamp, as well as said stud, may be held against loss, when the base 2 is disconnected from its socket, not only said stud is headed, but the base of said lamp is made to tightly enter said stud. Said lamp is preferably of the keyless sort, and in consequence the circuit is made and broken by turning the base in the socket; and therefore, since convenience requires that said stud should turn with said lamp, the diameter of said stud, both external and internal, and the diameters of said base and eyelet, are coadapted to that end. Manifestly said battery may be carried in any manner most convenient to the wearer, so the wires are out of the way of the free use of the hands and arms. It has already been stated that as one of the means used for mounting said lamp upon the cap, I use a tubular stud 7, provided with a head 8; and that to hold said lamp and stud against loss, they are suitably coadapted. It may be now observed that said stud may be wholly dispensed with: said eyelet 6 being closely worked about its edges with some suitable material 10, which is both pliable and insulatable, such for instance, as silk threads, and made sufficiently tight about the base so as to permit the same to turn therein, but nevertheless so as to prevent the loss thereof; see Fig. 4. And this may be done without departing from the spirit of my invention; but I prefer my present arrangement.

Having now fully described my invention, what I claim as new is:—

1. In a device of the character described, the combination of a head-covering, having an eyelet in the front thereof; a tubular headed stud, free to turn within said eyelet; and a miniature, keyless, incandescent lamp, the base of which passes through said stud and closely engages the same, the globe thereof being made to impinge against the headless end of said stud; whereby said lamp is secured against loss, and is free to turn for the making and breaking of electrical contact; substantially as set forth.

2. In a device of the character described, the combination of a head-covering, having an eyelet in the front thereof; a tubular headed stud, free to turn within said eyelet; a miniature, keyless, incandescent lamp, the base of which passes through said stud and closely engages the same, the globe thereof being made to impinge against the headless end of said stud; a suitable socket for said lamp, a source of electrical energy, and connections therebetween; the several parts being so coadapted, that, while said lamp,

when disconnected from its socket, is secured against loss, electrical contact is made and broken by the turning thereof; substantially as set forth.

3. In a device of the character described, the combination of a head-covering, having an eyelet in the front thereof; a miniature, keyless, incandescent lamp, the base of which passes through said eyelet; a suitable socket for said lamp, a source of electrical energy, and connections therebetween; together with suitable insulation between said base and head-covering; all such, and the several parts being so coadapted, that when electrical contact is made, said insulation is engaged upon the one side by said socket, and oppositely by the globe of said lamp,—and so that electrical contact may be made and broken by the turning of said lamp; substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK S. COLLIER.

Witnesses:
FRANK J. TUTTLE,
CHAS. L. STEVENS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."