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COMBINATION FLASHLIGHT, EYEPIECE AND HEADGEAR

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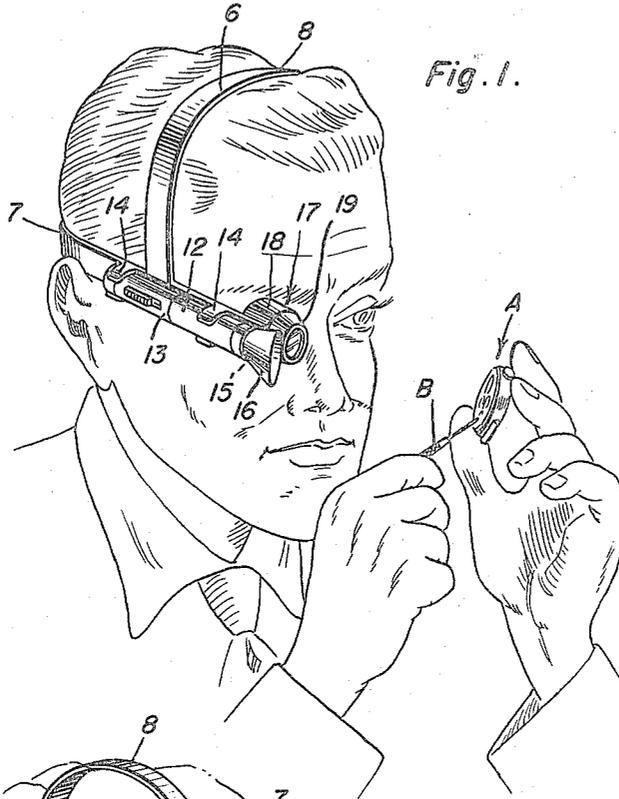


Fig. 1.

Fig. 2.

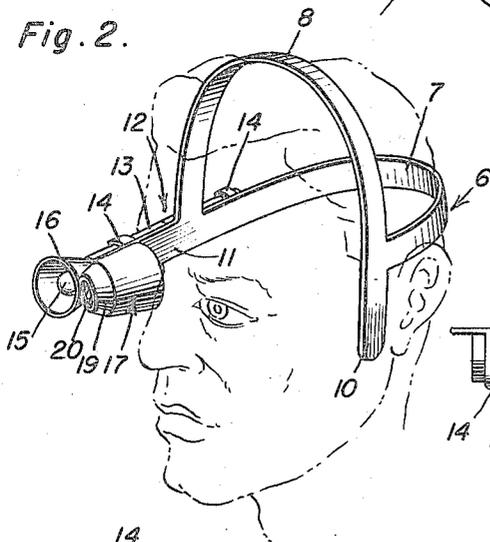


Fig. 3.

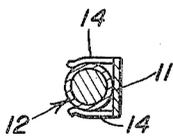
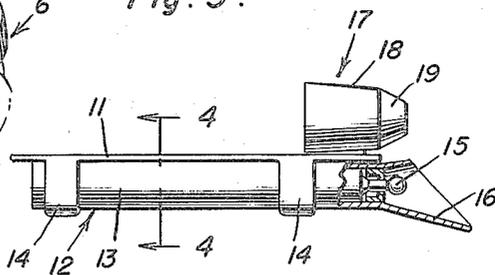


Fig. 4.

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# UNITED STATES PATENT OFFICE

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## COMBINATION FLASHLIGHT, EYEPIECE, AND HEADGEAR

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2 Claims. (Cl. 88-41)

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The present invention relates to an appliance which is adapted to be worn by jewelers, machinists working on precision tools and the like, and others requiring the combined use of a lamp and magnifying glass or lens for resultful accomplish-

ments. More specifically, the invention has to do with an appliance which is characterized by a simple head gear which is expressly constructed to accommodate a reflector equipped flashlight and a coordinated watchmaker's eye-loupe and the obvious purpose is to facilitate the performance of work by jewelers and similar experts and wherein the object or work may be better handled and worked upon, using a source of artificial light for assistive purposes.

In carrying out a preferred embodiment of the invention I have found it expedient and practical to utilize a simple and economical light-weight head gear having an extension constituting a special adapter, said adapter having clips to accommodate a suitable battery contained flashlight, the flashlight having a practical reflector cooperable with the bulb or lamp, and said adapter also carrying, in conjunction with the reflector, an appropriate watchmaker's or jeweler's eye-loupe, all of the parts being properly aligned so that the wearer, peering through the eye-loupe, may inspect fine mechanism in watches and the like, especially with the aid of the light beam which is properly stationed and correctly focused on the work.

Other objects and advantages will become more readily apparent from the following description and the accompanying illustrative drawing.

In the drawing, wherein like numerals are employed to designate like parts throughout the views:

Figure 1 is a perspective view showing the combination appliance characterized by head gear, flashlight and eye-loupe and illustrating the parts constructed and coordinated in accordance with the principles of the instant invention;

Figure 2 is a perspective view based on Figure 1 and simply observing the structure from a different point of view;

Figure 3 is a fragmentary view with parts in section and elevation to bring out the construction and relation of certain elements; and

Figure 4 is a transverse or cross sectional view on the line 4-4 of Figure 3, looking in the direction of the arrows.

Referring now to the drawing, the head gear,

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which is a simple, one-piece frame structure of appropriate yieldable material, is denoted by the numeral 6 and comprises two substantially U-shaped members, a horizontal one denoted by the numeral 7 and a vertical one denoted by the numeral 8. These are connected together in right angular relationship, as brought out in Figures 1 and 2. The free end portion of the limb of the vertical or overhead member is formed into an extension 10 which provides a suitable stabilizer on one side of the face of the wearer. The left-hand limb of the horizontal U-member 7 has a forward or outer extension 11 which constitutes the aforementioned adapter. In fact, this is more in the nature of a simple mount for the principal parts. One such part comprises a flashlight 12 which includes a suitable shell or casing for dry cell batteries, the casing being denoted by the numeral 13. This is provided with suitable grounding means and a removable closing cap to facilitate insertion and removal of the batteries. The flashlight battery casing is adapted to fit into spring clips 14 provided on the adapter extension 11. The lamp or bulb is denoted by the numeral 15 and this is housed within the confines of a suitably shaped and focused reflector 16. Opposed in spaced parallelism to the reflector and bulb means is the jeweler's or watchmaker's eye-pie or loupe 17. This comprises the usual tapered cup 18 and removable tip 19, said tip having an appropriate magnifying lens 20 provided therein as shown in Figure 2.

The adapter or mount for the reflector equipped flashlight and eye-loupe is so situated that the visor portion of the cup or shell of the eye-loupe is thus in contacting alignment with the eye of the wearer, permitting him to inspect through the magnifying lens the fine works in the watch and to work through the aid of a coordinated and properly focused light beam from the bulb. The reflector may be shaped to aid in beaming the light rays to best advantage in relation to the work A which is held in one hand, and the tool B which is held in the other hand. It follows that by providing these accessories on a head gear and putting the head gear in place the wearer has both hands free for inspection and precision results.

Manifestly, while the description and drawing appertain to the use of the invention by jewelers and watch experts, it is evident that the structure may be advantageously employed by mechanics and others working with lathes where truing balance wheels, polishing pivots and the like requires

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accuracy, a good bead on the work, and a source of illumination as a further instrumentality helpful to achieve best results.

A careful consideration of the foregoing description in conjunction with the invention as illustrated in the drawing will enable the reader to obtain a clear understanding and impression of the alleged features of merit and novelty sufficient to clarify the construction of the invention as hereinafter claimed.

Minor changes in shape, size, materials and rearrangement of parts may be resorted to in actual practice so long as no departure is made from the invention as claimed.

Having described the invention, what is claimed as new is:

1. In a combination appliance of the class described, a head gear comprising a vertical U-shaped part adapted to arch over and bridge the crown of the head of the wearer, a second U-shaped part, the latter being horizontally disposed and at right angles to and adapted to embrace the rear portion of the wearer's head, the limbs of the respective U-shaped parts being joined together in right angular relationship, one of the limbs of the second-named U-shaped part having a forwardly projecting extension and said extension constituting an adaptor for convenient mounting of complemental accessories, a conventional eye-loupe on the one hand, and a cooperable source of light on the other hand, the lower end of one limb of the first-named U-shaped part projecting downwardly beyond the adjacent limb on the second-named U-shaped part to provide a stabilizing member, the latter being on a side of the head gear opposite to that on which the adaptor is situated, a jeweler's eye-loupe rigidly mounted on one side of the adaptor adjacent to the face of the wearer, and a coordinated source of light mounted on the opposite side of the adaptor, the optical axis of the eye-loupe being substantially parallel to the longitudinal axis of the source of light.

2. In a combination appliance of the class shown and described, a head gear comprising a vertical U-shaped part adapted to arch over and bridge the crown of the head of the wearer, a second U-shaped part, the latter being horizontally disposed and at right angles to and adapted to embrace the rear portion of the wearer's head,

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the end portions of the limbs of the respective U-shaped parts being rigidly joined together in right angular relationship, and end portion of one of the limbs of the second named U-shaped part projecting forwardly beyond the limb of the first named U-shaped part and constituting an adaptor, the lower end of one limb of the first named U-shaped part projecting downwardly beyond the adjacent limb on the second named U-shaped part on a side of the head gear opposite to that on which the adaptor is situated and providing a stabilizing member, said adaptor being provided on an exterior side with flashlight clips, a conventional type flashlight including a battery case removably mounted in said clips, said flashlight further including a bulb, and a reflector surrounding and projecting forward and beyond the bulb, said reflector being of a general frusto-conical form and the forward end of the reflector being cut obliquely to the longitudinal axis of the flashlight, and an eye-loupe rigidly mounted on the inner side of said adaptor and having its optical axis in parallelism with the longitudinal axis of the flashlight, said eye-loupe and the reflector both extending slightly beyond the free end of the adaptor and the outermost end portion of said reflector extending beyond the outermost oblique end of the eye-loupe.

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