

Oct. 17, 1939.

L. J. CAPITANI

2,176,789

HEAD LAMP

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Fig. 1.

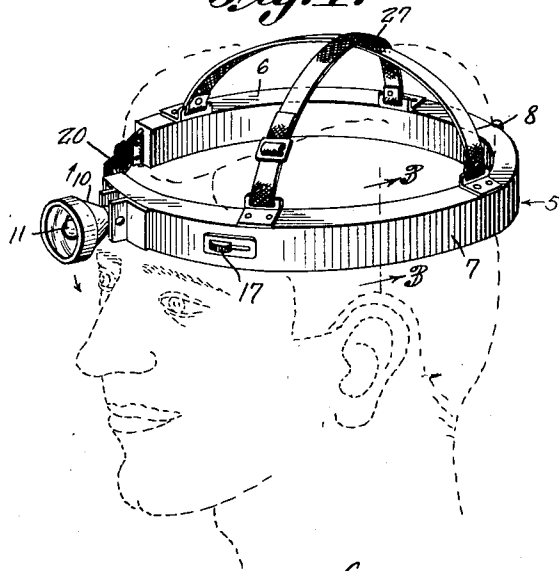


Fig. 2.

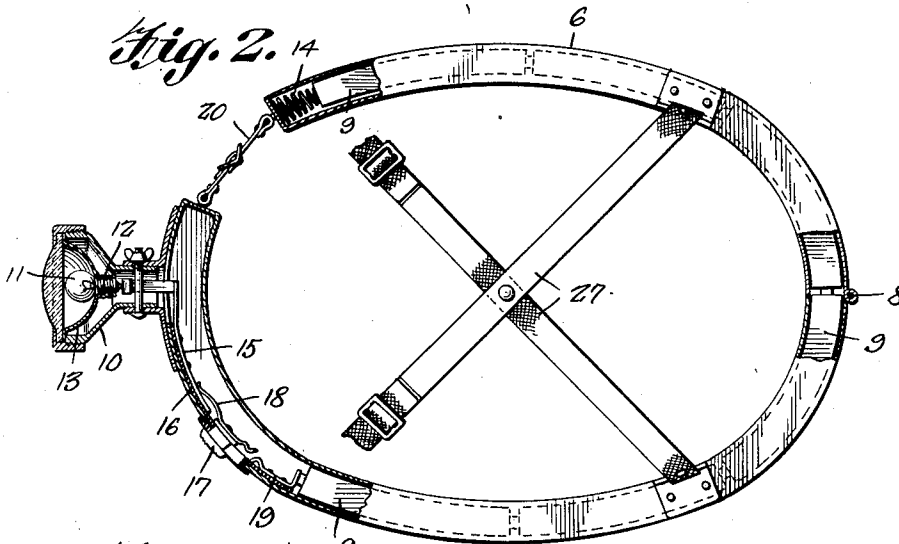
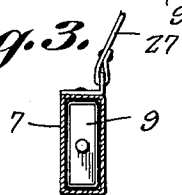


Fig. 3.



Luciano J. Capitani,

INVENTOR

BY *Victor J. Evans & Co.*

ATTORNEYS

P. C. Hickey.

WITNESS

UNITED STATES PATENT OFFICE

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HEAD LAMP

Luciano J. Capitani, Aliquippa, Pa.

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2 Claims. (Cl. 240—59)

My invention relates to head lamps and more particularly to electric head lamps adapted to be worn on the head of a user.

One of the principal objects of my invention is to provide a head lamp so constructed and arranged as to permit the mounting thereof upon the head of a wearer so that the lamp will direct light from the forehead on illumination of said lamp, thus eliminating the necessity of the carrying of the lamp in the hand and thereby giving freedom of use of the hands of the wearer.

Another object of my invention is to provide a lamp of the above described character wherein the electric batteries are mounted in a novel manner and the current supply therefrom is controlled by a switch readily accessible for the turning on or off of the lamp of the electric bulb type when the same is worn on the head, the supporting band of the lamp being of a kind for self-adjustment for the fitting of the lamp about the head of the wearer.

A further object of my invention is to provide a device of the above described character which is simple in construction, durable in use, efficient in operation and economical in manufacture.

Other objects and advantages will be apparent from the following description, appended claims and annexed drawing.

Referring to the drawing wherein like reference characters designate like parts throughout the several views:

Figure 1 is a perspective view of my invention illustrating the same as being worn on the head of a user.

Figure 2 is a top plan view thereof, certain of the parts being illustrated in section.

Figure 3 is a detail sectional view taken on the lines 3—3 of Figure 1.

In practicing my invention I provide a head-band 5 which is of elliptical formation in plan. Said head-band 5, which is constructed of metal, is hollow and is formed with a pair of short and long sections 6 and 7 respectively, hinged together at the rear side of said band as at 8. Said sections constitute battery casings in which are positioned a plurality of batteries 9 as clearly illustrated in Figure 2 of the drawing. The front end of the section 7 of said band has adjustably secured thereto a lamp housing 10, the same having contained therein an electric bulb 11 threadedly mounted in a socket 12 formed on the rear end of a reflector 13. Said reflector 13 is electrically connected to one terminal of a battery through the medium of a coil spring 14 interposed between the front wall of the section 6 and

the adjacent end of a battery as illustrated in Figure 2.

A bus bar 15 is carried by the inner face of the outer wall of the section 7, adjacent the front end thereof, and is insulated therefrom by a strip of insulating material 16. One end of said bus bar is fashioned with a forwardly extending arm having electric contact with a centrally disposed terminal of the bulb 11. Slidably mounted through the front wall of the casing and insulated therefrom is a switch button 17, the rear end of which is provided with a switch blade 18, one end of which slidably engages the bus bar 15 and the opposite end a contact strip 19 carried by the material 16. Said strip 19 engages the positive terminal of the adjacent battery and coacts with the spring 14 to maintain the batteries in connected condition with said band.

Operation of the switch button in one direction serves to break the connection between the strip 19 and the blade 18 while operation in the opposite direction serves to effect electrical connection between the strip 19 and bus bar 15 thereby establishing a circuit from said battery to the lamp 11 to effect illumination thereof.

The front ends of the sections are connected together by a pair of buckled elastic straps 20 and when said straps 20 are detached relative to each other the section may be swung to open position to permit removal and insertion of the batteries 9 within the respective sections. A pair of adjustable cross straps 21 are secured to the upper face of the sections 6 and 7 and serve to maintain the device suspended about the head of a wearer. The straps 20 are adjustable to a desired head size. The sections 6 and 7 may be constructed to any desired size and of various materials, for instance, leather, fiber and pressed paper as well as metal or the like.

From the foregoing it will be apparent that I have provided a suitable and efficient head lamp which may be readily adjusted to the head of a wearer and thereby permit free use of the hands of said wearer. It is to be distinctly understood that various changes and modifications in the construction and arrangement of the parts may be resorted to without departing from the spirit of the invention or scope of the appended claims.

What I claim is:

1. A device of the character described, comprising, a hollow band formed with a pair of sections hinged together at the rear ends thereof, a lamp housing adjustably connected to one of said sections adjacent the front end thereof,

a spring in one of said sections at the front end thereof, a contact strip mounted within the other section at the front end and insulated therefrom, said contact strip coacting with said spring for maintaining batteries within said band in connected condition when the rear ends of said sections are closed relative to each other, a switch carried by said band adjacent said housing for establishing electrical connection between said strip and a lamp bulb mounted in said housing, and detachable means connecting the front ends of said sections together and coacting with said strip and said spring to maintain said batteries in connected condition.

2. A device of the character described, comprising, a hollow band formed with a pair of sections hinged together at the rear ends thereof, a lamp housing adjustably connected to one of said sections adjacent the front end thereof, a

spring in one of said sections at the front end thereof, a contact strip mounted within the other section at the front end and insulated therefrom, said contact strip coacting with said spring for maintaining batteries within said band in connected condition when the rear ends of said sections are closed relative to each other, a switch carried by said band adjacent said housing for establishing electrical connection between said strip and a lamp bulb mounted in said housing, detachable means connecting the front ends of said sections together and coacting with said strip and said spring to maintain said batteries in connected condition, and a pair of crossed adjustable head straps secured to said sections for maintaining said band in suspended condition about the head of a wearer.

LUCIANO J. CAPITANI.