M. J. GIBBONS.

MINER'S CAP.

APPLICATION FILED DEC. 6, 1918.

1,305,895. Patented June 3, 1919.

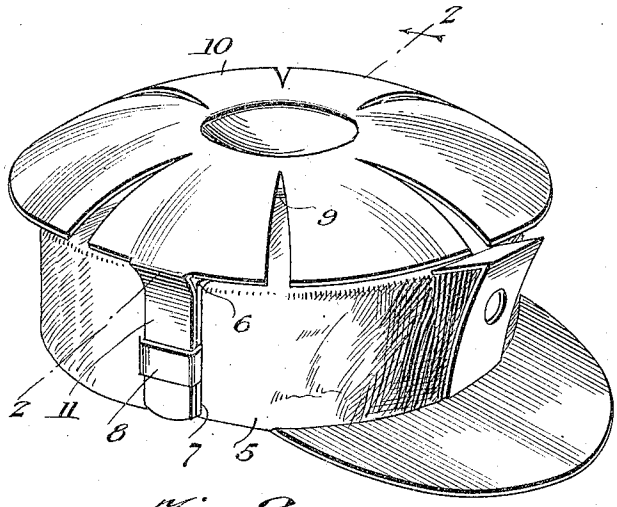


Fig. 1.

Fig. 2.

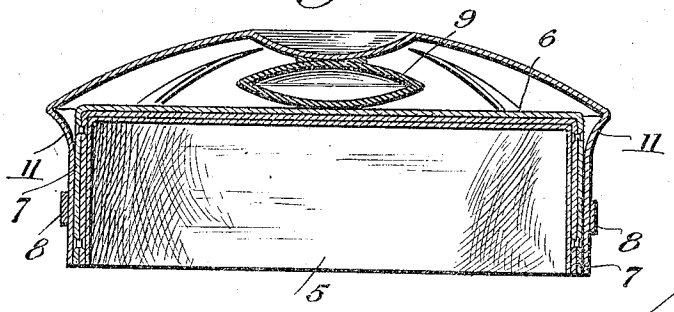


Fig. 4.

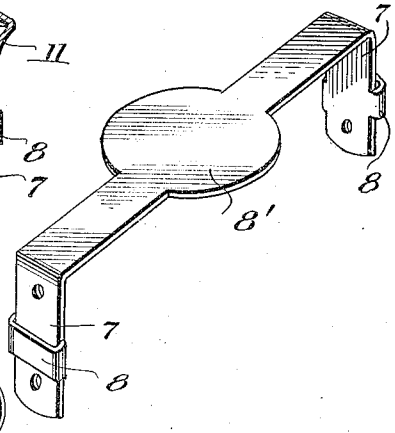
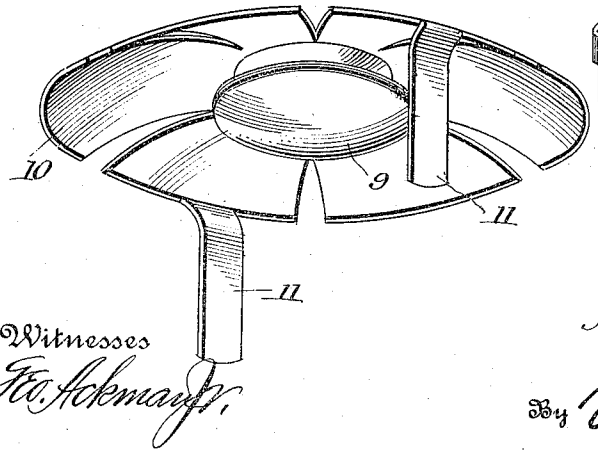


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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MINER'S CAP.

1,305,895. Specification of Letters Patent. Patented June 3, 1919.

Application filed December 6, 1918. Serial No. 265,584.

To all whom it may concern:

Be it known that I, MICHAEL J. GIBBONS, a citizen of the United States, residing at Shenandoah, in the county of Schuykill and State of Pennsylvania, have invented new and useful Improvements in Miners' Caps, of which the following is a specification.

In mines, injuries are frequently inflicted to the miner by pieces of coal falling directly upon his head. This is true especially when the miner is engaged in dressing down shots and placing relief timber. From experience I have found that such liability to injury can be avoided by providing a protective disk for the ordinary construction of miners' caps, and it is the object of the present invention to produce a protective device of this character which shall be of a comparatively simple construction, easily applied to the cap when the miner is at work and readily removed therefrom to relieve the cap from the added weight thereof, when desired.

The drawings illustrate a simple and satisfactory embodiment of the improvement reduced to practice, and in which:

Figure 1 is a general view illustrating the improvement;

Fig. 2 is a sectional view approximately on the line 2—2 of Fig. 1;

Fig. 3 is a perspective view of the improvement looking toward the under face thereof; and

Fig. 4 is a similar view of the strap member designed to be secured to the cap for removably supporting the protector thereon.

In the drawings I have illustrated a miner's cap of the ordinary construction which is designated by the numeral 5. On this cap I secure a strap 6. The strap is arranged over the top of the cap and is bent against the sides of the cap. The strap is constructed of metal if desired, but may be formed of other material if desired, and the bent or angle ends 7 thereof are riveted or otherwise secured to the sides of the cap 5. Each of the sides 7 is provided with a transversely arranged loop 8, the purpose of which will presently be apparent, and the center of the strap is preferably widened, as clearly illustrated by the drawings. On this widened or enlarged portion 8′ of the strap rests a hollow disk 9 that is centrally secured to the inner and concaved face of the protector 10. The protector is in the nature of a saucer shaped disk and has its edges provided with diametrically opposed downwardly extending fingers 11 that are adapted to be received in the loops of the strap, when the device is in applied position. If desired, the protector may be slit radially from the edge to a point adjacent the center thereof to add to the resiliency of the construction, and the hollow disk in the center thereof provides an air cushion between the protector and the top of the cap, so that the protector will yield, when contacted by flying coal or other obstacles and not inflict injury to the head of the wearer of the cap.

It is believed, from the foregoing description, when taken in connection with the drawings, that the simplicity and advantages of the construction will be readily apparent.

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

1. In combination with a miner's cap, of a strap arranged over the top thereof having a central widened portion and angle sides secured to the sides of the cap, said angle sides having transverse loops, a yieldable disk adapted to be arranged on the top of the cap, cushioning means between the center of the disk and the widened portion of the strap, and fingers on the disk adapted to be received in the loops of the strap.

2. In combination with a miner's cap, of a strap arranged transversely over the top thereof, said strap having a central enlarged portion and angle ends that are secured to the sides of the cap, loops on said angle ends, a compressible disk adapted to be arranged over the top of the cap, an air cushion carried by said disk and engaging with the widened portion of the strap, and fingers on said disk designed to be received in the loops of the strap.

In testimony whereof I affix my signature.

MICHAEL J. GIBBONS.

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