

H. K. NUTZE.

HELMET LIGHT.

No. 186,751.

Patented Jan. 30, 1877.

Fig. 1

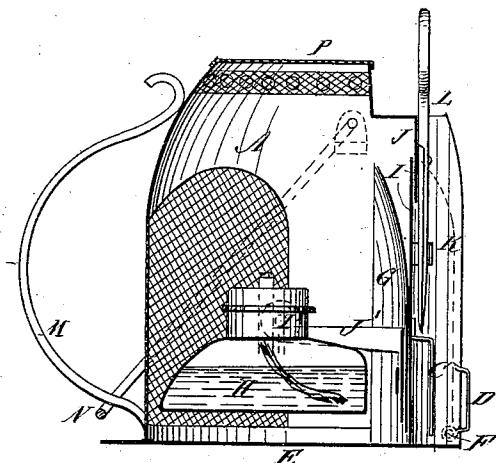


Fig. 3.

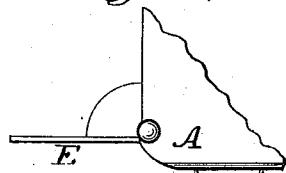
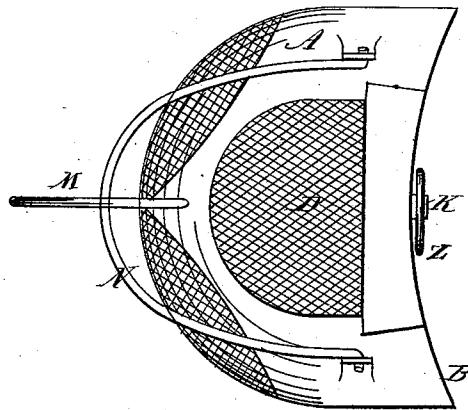


Fig. 2



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HENRY K. NÜTZE, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN HELMET-LIGHTS.

Specification forming part of Letters Patent No. **186,751**, dated January 30, 1877; application filed September 2, 1876.

*To all whom it may concern:*

Be it known that I, HENRY KEYSER NÜTZE, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Helmet-Light, of which the following is a specification:

My invention comprises a safety reflecting light, combined with the helmet of a miner's hat, so as to be carried safely and conveniently, and being adapted to fasten to the breast of a person by a hook, suitably for conductors' use.

Figure 1 is partly a side elevation and partly a sectional elevation of my improved lamp, and Fig. 2 is a top view. Fig. 3 is a detail view, showing the hinging together of the semicircular lamp-cage and the bottom of the device.

Similar letters of reference indicate corresponding parts.

A is a semicircular lamp cage or case, with a concave back, B, having a hook, C, and loops D, for connecting to the front of a hat, or to the breast of a person by straps or other suitable means, the bottom of which, E, is hinged to the bottom of the back of the case at F, so as to swing down and up for opening and closing, and it has a reflector, G, attached to it near the back, from which a lamp, H, is

suspended on pivots I by arms J', so as to be held upright in any position of the case.

There is a back plate, I, attached to the bottom E, which closes up against the back plate J of the case, and fastens by a loop, K, and a pin, L, for which latter I propose to use the scissors for trimming the lamp.

M is a wire guard to the gauze front of the lamp, and N is the handle of the lamp. The handle swings down and springs under the guard, so as to be retained by it, and forms another portion of a guard for the protection of the gauze. The top P and a portion of the bottom are constructed of wire-gauze for ventilation and for giving out the light.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The improved helmet-light, consisting of the case A, with concave back plate J, bottom plate E, with concave back plate I, hinged together, and contrived to be fastened, as described, and having the reflectors G and the pivoted lamp H, arranged as described.

HENRY KEYSER NÜTZE, M. D.

Witnesses:

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CHAS. F. BARTLETT.