No. 786,227. PATENTED MAR. 28, 1905.

R. R. LOGAN & S. P. WETHERILL, JR.

SIGHT ILLUMINATOR.

APPLICATION FILED JULY 20, 1904.

2 SHEETS—SHEET 1.

Fig. 1.

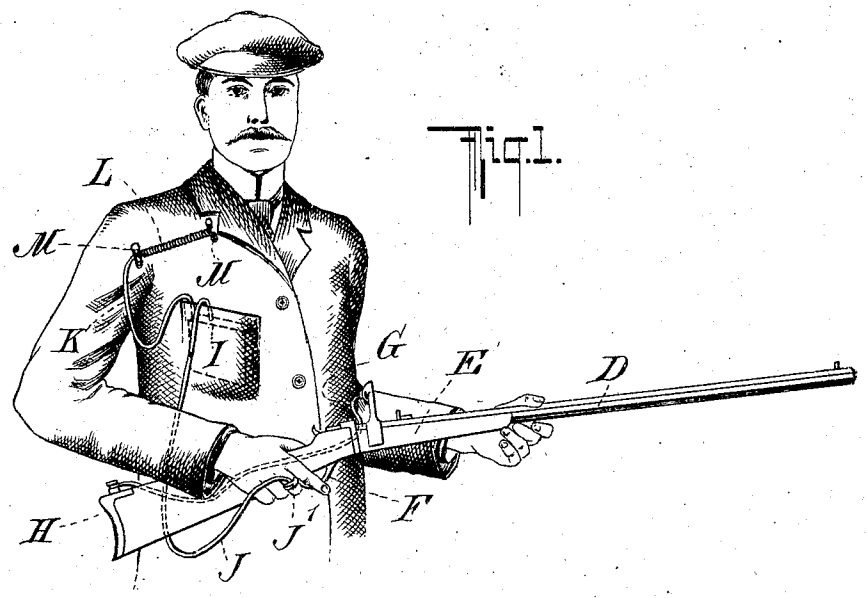
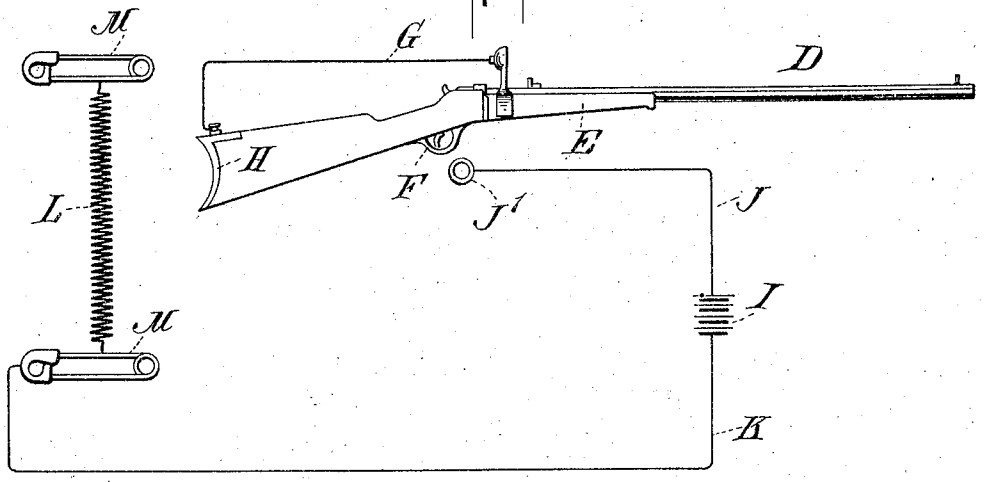


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

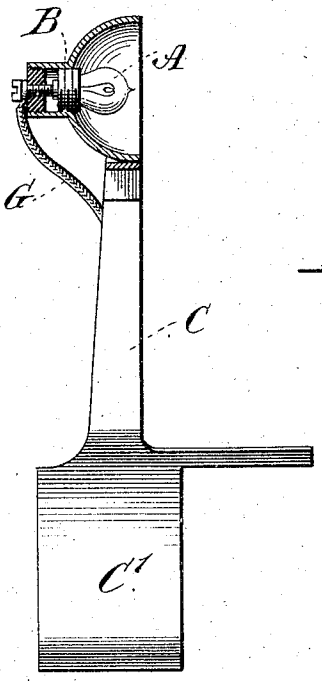


Fig. 4.

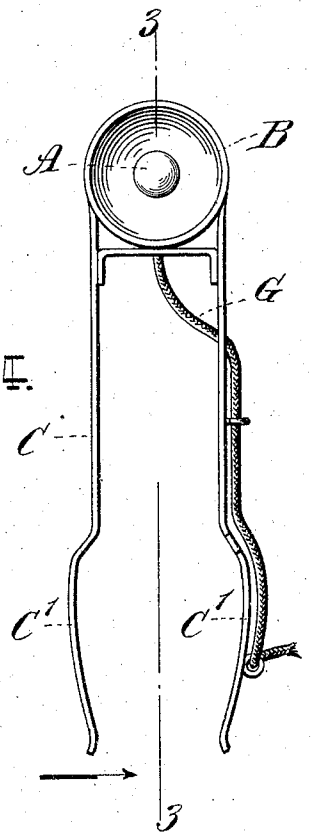
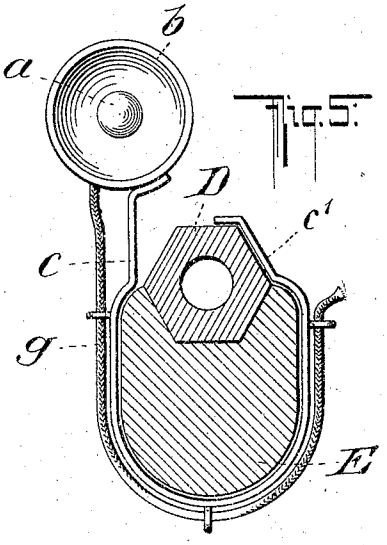


Fig. 5.



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No. 786,227. Patented March 28, 1905.

UNITED STATES PATENT OFFICE.

ROBERT RESTALRIG LOGAN AND SAMUEL PRICE WETHERILL, JR., OF NEW YORK, N. Y.

SIGHT-ILLUMINATOR.

SPECIFICATION forming part of Letters Patent No. 786,227, dated March 28, 1905.

Application filed July 20, 1904. Serial No. 217,303.

To all whom it may concern:

Be it known that we, ROBERT RESTALRIG LOGAN and SAMUEL PRICE WETHERILL, Jr., citizens of the United States, and residents of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Sight-Illuminators, of which the following is a specification.

Our invention relates to devices for illuminating sights of guns, and has for its object to provide a simple device which will be readily attachable to ordinary sporting guns or rifles and which is so constructed as to illuminate the sights as soon as the gun-stock is brought up against the shoulder.

Our invention will be fully described hereinafter and its features of novelty pointed out in the appended claims.

Reference is to be had to the accompanying drawings, in which—

Figure 1 represents a sportsman carrying a rifle provided with our improvements. Fig. 2 is a detail view of the gun and the new sight-illuminator. Fig. 3 is a sectional elevation on line 3 3 of Fig. 4. Fig. 4 is a front elevation of the lamp and its bracket, and Fig. 5 is a front elevation of another form of our invention with the rifle barrel and stock in sections.

The sight-illuminator comprises a suitable incandescent electric lamp A, preferably located within a reflector B, arranged to throw the light forward. One end of the lamp-filament is in conducting connection with the reflector B and with the bracket C, upon which said reflector is secured. In the form of construction illustrated by Figs. 1 to 4 the bracket C is open, so that its members leave the central portion unobstructed and allow the sights to be plainly seen. The bracket C is formed with suitable means for attaching it to the gun—for instance, by making it with clamping ends C′, which straddle the barrel D and a portion of the stock E, so that one end of the lamp-filament is in conducting connection with the barrel and through its medium with the several parts of the firing mechanism, such as the guard F. The other end of the filament is connected, as by means of a wire G, with a shoulder-plate H, arranged at the butt-end of the gun-stock. In connection with the device so far described we employ a source of electricity, such as a dry battery of suitable construction, which may be located in a pocket of the sportsman, as indicated at I in Fig. 1. From said battery one wire, J, leads to a finger-piece or ring J′, adapted to be slipped on a finger, as shown in Fig. 1, and to be brought in contact with the guard F or some other metallic part connected with the barrel D. Another wire, K, leads from the battery I to a contact device adapted to be fastened upon the sportsman's coat adjacent to the shoulder, so as to be engaged by the plate H when the gun is brought into position for aiming and firing. This contact device preferably consists of a coil-spring L, having its ends secured to suitable attaching devices—for instance, in the nature of ordinary safety-pins N. This particular contact device affords a reliable contact and is preferred for that reason, although a simple strip of metal might be employed.

Instead of carrying the electric lamp upon a bracket straddling the barrel D from above we may, as shown in Fig. 5, construct the bracket *c* to embrace the stock E from below, the bracket in this case also having a clamping action and being made of elastic material for this purpose and being further provided with a suitable projection, such as a tongue *c′*, adapted for metallic contact with the barrel D. In this case also care is taken not to obstruct the sights from view.

Various modifications may be made without departing from the nature of our invention.

The wire J might be permanently connected with the barrel D or some other metallic part of the gun; but the connection shown is preferred, as it leaves the gun entirely free and enables the hunter to readily break the circuit and flash the light at will.

We claim as our invention—

1. A sight-illuminator for guns and rifles comprising an electric lamp, a carrier for said lamp adapted for conducting engagement with a metallic part of the gun, a metallic contact-plate on the butt-end of the stock, a connec-

tion from said contact-plate to that terminal of the electric lamp which is not connected with the other metallic parts of the gun, a source of electricity adapted for connection with said other metallic parts and a contact device connected with said source of electricity and adapted to be engaged by said metallic contact-plate and to be secured to the clothing of the person.

2. A sight-illuminator for guns and rifles comprising an electric lamp adapted to be carried by the gun or rifle, a contact-plate on the butt-end of the stock, a contact device adapted to be engaged by said contact-plate and to be secured to the person's clothing, a source of electricity and connections for closing the circuit through said lamp when the butt-end of the gun is brought against said contact device.

3. A sight-illuminator for guns and rifles comprising an electric lamp adapted to be secured to the gun or rifle, a source of electricity, and a circuit-closer arranged to be operated by the pressure of the butt-end of the gun against the shoulder to light said lamp.

4. A sight-illuminator for guns and rifles comprising an electric lamp adapted to be carried by the gun or rifle, a source of electricity, a metal coil adapted to be secured to the person's clothing in position to be engaged by the butt-end of the stock when aiming, and connections for bringing about the operation of said lamp when the gun engages said coil.

5. A sight-illuminator for guns and rifles comprising a source of electricity, a contact device adapted to be secured to the person's clothing and connected with one pole of said source of electricity, a contact-ring connected with the other pole of said source of electricity and adapted to engage a metallic part of the gun or rifle, an electric lamp one terminal of which is connected with such metallic part, and a separate metallic part arranged on the butt-end of the stock and connected with the other terminal of said lamp, said metallic part on the butt-end of the stock being adapted to engage the contact device secured to the person's clothing.

6. A sight-illuminator for guns and rifles, comprising an electric lamp adapted to be secured to the gun or rifle, a source of electricity, and a circuit-closer for lighting said lamp, said circuit-closer comprising a finger-piece adapted to be slipped on a finger of the same hand which presses the trigger.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ROBERT RESTALRIG LOGAN.
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Witnesses as to S. P. W., Jr.:
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C. W. SEXTON.