

W. LENZIKOW & D. BÜHLER.
 PEN FLASH LIGHT.
 APPLICATION FILED DEC. 6, 1915.

1,199,392.

Patented Sept. 26, 1916.

Fig. 1.

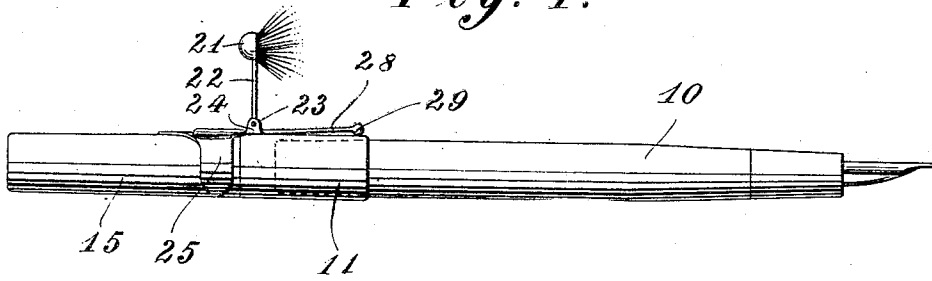


Fig. 2.

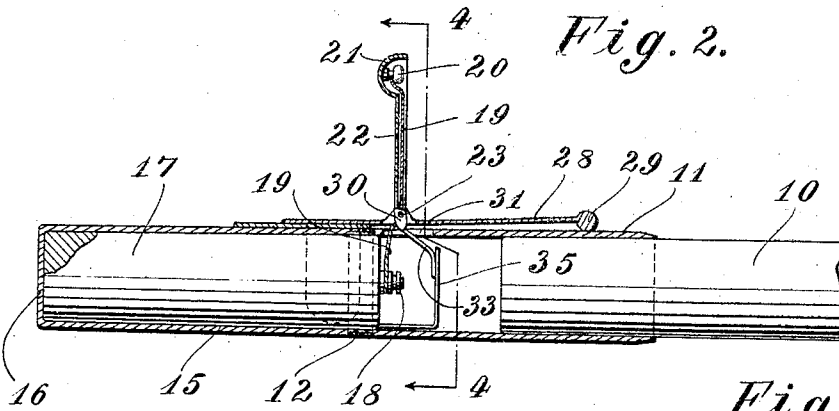
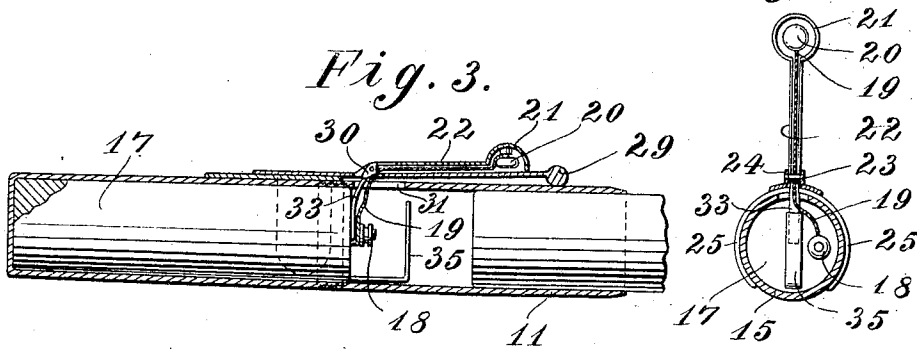


Fig. 4.



WITNESSES:

Richard Wegener
Lulu W. Johnson

INVENTORS

Willie Lenzikow
Dagobert Bühler
 BY *Oscar Gell*
 HIS ATTORNEY

UNITED STATES PATENT OFFICE.

WILLIE LENZIKOW AND DAGOBERT BÜHLER, OF NEW YORK, N. Y.

PEN FLASH-LIGHT.

1,199,392.

Specification of Letters Patent. Patented Sept. 26, 1916.

Application filed December 6, 1915. Serial No. 65,386.

To all whom it may concern:

Be it known that we, WILLIE LENZIKOW and DAGOBERT BÜHLER, subjects of the Emperor of Germany, and residents of New York, in the county of Bronx and State of New York, have invented certain new and useful Improvements in Pen Flash-Lights, of which the following is a specification.

This invention relates to improvements in flash lights and particularly to apparatus for producing the same, whereby the rays are thrown directly upon a surface as inscriptions are made thereon.

The principal object of the invention is to produce a small but powerful light to be used as an attachment to fountain, stylographic or other pens, and ordinary pencils, without encumbering the same in an objectionable manner, the light being directed toward the point making the inscription and the entire device being self-contained.

Another object is to provide such means in forms that can be constructed at a moderate cost and which in no wise interferes or conflicts with the ordinary purpose of the article to which they are applied.

These and other objects, which will become apparent as the description progresses, are obtained by the novel construction and combination of parts hereinafter described and shown in the accompanying drawings, forming part of this specification, and in which:—

Figure 1 is a general side elevation of a fountain pen, showing the attachment applied in operative position. Fig. 2 is an enlarged fragmental sectional view of the same, showing the interior construction thereof, the light being in an extended position. Fig. 3 is a similar view to that shown in Fig. 2, with the light folded or in a position adapted to be carried in the pocket, and, Fig. 4 is a transverse sectional view taken on line 4—4 of Fig. 2.

In the drawing an ordinary fountain pen 10, is provided with a cap 11 in the usual manner, the cap being adapted to be placed over the point as a protecting guard when the pen is not in use, or disposed over the opposite end of the pen when use is made of the same.

The cap 11 is merely a cylindrical tube, connected by screw threads 12 with a supplementary cap 15, having an integrally formed end 16 and containing a battery cell 17 adapted to furnish current to the bind-

ing post 18, with which is engaged an insulated conductor 19, the same terminating in the bulb 20 arranged within the reflector 21, supported by an arm 22 which is pivoted at 23 to the clip bracket 24, secured as usual by the spring arms 25 to the exterior of the cap 15. Extending from the clip bracket 24, substantially parallel to the barrel of the pencil, is another arm 28 carrying a head 29 adapted to engage the pen within a pocket or other convenient object upon which it is desired to dispose of the pen. The lower end 30 of the arm 22 extends inwardly through the slot 31 formed in the cap 11 and has attached to it a spring arm 33 adapted, when the arm 22 is raised perpendicular to the barrel of the pen, to make contact with the bar 35, which forms the other terminal of the battery 17. When the light is not desired the arm 22, together with the reflector and the bulb carried therein, is turned to lie closely adjacent and parallel with the cap 11 at whichever end of the pen the cap may be placed. If it be desired to make use of the light the arm 22 is raised horizontally, as shown, whereupon an electrical connection is formed through the contacting elements 19, 33, and 35, causing the light to glow as clearly indicated in Fig. 1.

It is to be understood that the clip 24 and clamp arm 28 is not claimed as part of the invention, use being made of it merely as a supporting means for the light element pivoted to it as indicated.

Having thus described our invention and ascertained the manner of its construction and use, what we claim as new and desire to secure by Letters Patent is:—

1. In a device of the class described, the combination with a cap suited to be engaged upon either end of a fountain pen, of an electric battery contained in said cap, a reflector and electric light bulb adapted to be raised above the cap and direct rays toward the pen point, and also adapted to be folded closely adjacent to the cap, and means connecting the light bulb to the battery when in a raised position, and disconnecting it therefrom when in a lowered position.

2. In a device of the class described, the combination with a source of electrical energy, contact points extending therefrom, of a pen cap for inclosing said source of energy, an electric light bulb, an arm pivotally connecting said bulb to said cap, a reflector carried by said arm, said reflector be-

ing adapted to direct the light from said bulb toward the point of the pen when in a raised position, or to fold closely adjacent to the pen cap, and means upon said raising or lowering action operating to make or break the electric circuit.

3. In a device of the class described, the combination with a pen cap having means for attachment, of a source of electrical energy carried in said cap, contact points extending therefrom, an arm pivoted to said cap, a reflector and electric light bulb carried by said arm, said reflector being adapted to direct the light rays from said bulb

toward the point of the pen when in a raised position, and fold closely adjacent to the pen cap when in a lowered position, said bulb being flexibly connected with one of the contact points, and a conductor formed with the said arm adapted to make or break contact with the other of said contact points according to the position of said arm.

Signed at New York, in the county of Bronx and State of New York, this 1st day of December, A. D. 1915.

WILLIE LENZIKOW.
DAGOBERT BÜHLER.

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