May 21, 1968 S. G. DELLIGATTI 3,384,742

BALLPOINT PENLIGHT

Filed Feb. 4, 1966

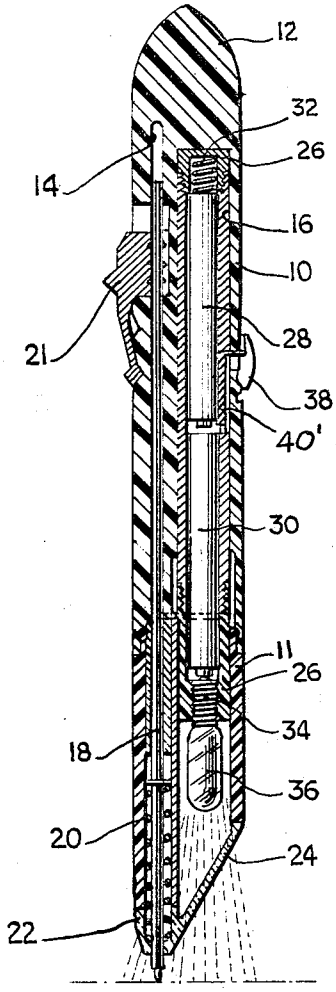


Fig. 1.

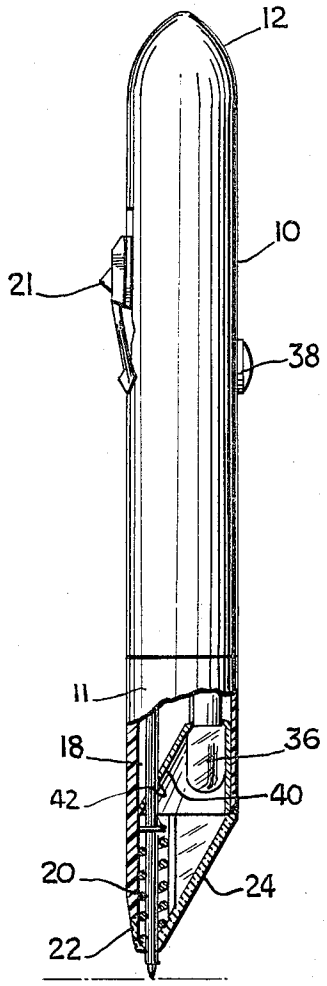


Fig. 2.

INVENTOR

S.G. DELLIGATTI

United States Patent Office

3,384,742

Patented May 21, 1968

3,384,742

BALLPOINT PENLIGHT

Susie G. Delligatti, 11—24 46th Ave.,
Long Island City, N.Y. 11101

Filed Feb. 4, 1966, Ser. No. 525,046
3 Claims. (Cl. 240—6.46)

ABSTRACT OF THE DISCLOSURE

The ballpoint pen has a self contained light source comprising a hollow plastic cylindrical barrel having first and second parallel bores. The first bore houses a ballpoint pen cartridge wherein the portion defining the opening for the point is transparent. The second bore houses batteries and a light bulb. A slanted flat lens plate closes the opening of the second bore adjacent the point of the pen. A reflector is employed to the rear of the bulb to reflect the light thereof through the lens and transparent portion about the point.

My invention is directed toward ballpoint pens having self contained light sources which can be turned on or off to provide illumination when desired.

It is an object of my invention to provide a new and improved ballpoint penlight of the character indicated which can be used either as a flashlight or as a pen and in addition can be used simultaneously both as a pen and as a light source whereby the user can write in what would otherwise be darkness.

Another object is to provide a new and improved ballpoint penlight of the character indicated wherein the light not only illuminates the surrounding area but also illuminates the ballpoint as well.

Still another object of my invention is to provide a new and improved ballpoint penlight of the character indicated which can be manufactured easily and inexpensively.

All of the foregoing and still further objects and advantages of my invention will now be explained with reference both to this specification and to the accompanying drawings wherein:

FIG. 1 is a cross sectional view of one form of my invention; and

FIG. 2 is a cross sectional view of another form of my invention.

Referring now to FIG. 1, an elongated hollow plastic cylindrical barrel **10** has a removable end cap **12** at one end thereof and a lower section **11** which can be engaged therewith or disengaged therefrom by snap action. Barrel **10** and section **11** have first and second parallel hollow bores **14** and **16** within which the cartridge and batteries are received. The snap joint then allows for replacement of parts whenever necessary.

Bores **14** and **16** extend parallel to the axis of the barrel. The first bore **14** is narrow and accommodates a ball point cartridge **18** having a conventional spring **20** and having a lower opening at the other end of the barrel through which the point can be extended in writing position or withdrawn under the conventional control of conventional slide clip **21**. The portion **22** of the barrel defining this lower opening is transparent. The lower end of bore **16** is scaled by a slanted transparent magnifying lens plate **24** connected with portion **22**. Bore **16** is lined with metal at **26** and contains two dry cells positioned end to end as shown at **28** and **30**. The far end of cell **28** bears against spring **32**. The opposite end of cell **30** bears against socket **34** supporting bulb **36** which is positioned adjacent plate **24**. Clip **38** on barrel **10** has an upper position at which lever **40'** connected to clip **38** holds cells **28** and **30** out of contact with each other whereby the bulb is dark. When the clip **38** is pushed downward the pressure of lever **40'** or cell **28** is released, and spring **32** pushes cell **28** in contact with cell **30** to light the bulb.

FIG. 2 shows the same arrangement but in addition incorporating a reflector **40** mounted on socket **34** and housing bulb **36**. Reflector **40** has a hole **42** through which the cartridge **18** passes.

In either case, my invention can be operated either as a pen or as a flashlight or in combination as a penlight. Portion **22** and plate **24** interact as light transmission means whereby both the bottom end of the pen and the surrounding area are illuminated when the bulb is lit. Reflector **40** provides a more confined light distribution.

While I have described my invention with particular reference to the drawings, my protection is to be limited only by the terms of the claims which follow.

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

1. A ballpoint penlight comprising a hollow plastic cylindrical barrel having first and second bores extending downward in said barrel parallel to the axis of the barrel, an end cap detachably secured to one end of the barrel, the other end of said barrel having an opening for said first bore, a slanted flat lens plate connected to said opening and sealing one end of said second bore, a ballpoint pen cartridge mounted in said first bore, and light producing means positioned in said second bore, said means including a bulb positioned adjacent said plate, a portion of said barrel adjacent said one end of said first bore being transparent, and a reflector coupled to said bulb to direct light upon said plate.

2. A penlight as set forth in claim **1** wherein said means includes an on-off switch.

3. A penlight as set forth in claim **2** wherein said means also includes two dry cells.

References Cited

UNITED STATES PATENTS

1,181,061	4/1916	Bettencourt	240—6.46
2,052,501	8/1936	Thornton	240—6.46
2,964,614	12/1960	Buschle	240—6.46

NORTON ANSHER, *Primary Examiner.*

D. L. JACOBSON, JOSEPH F. PETERS, JR.,
Assistant Examiners.