W. Q. BROWNE.

ELECTRICALLY LIGHTED PENCIL.

APPLICATION FILED OCT. 19, 1914.

1,155,208.

Patented Sept. 28, 1915.

Fig. 1.

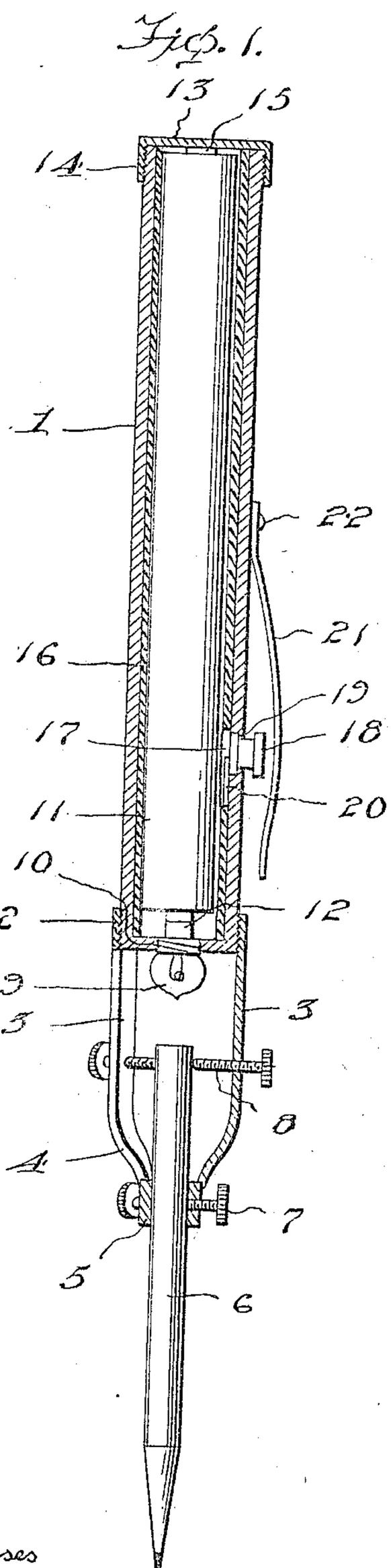
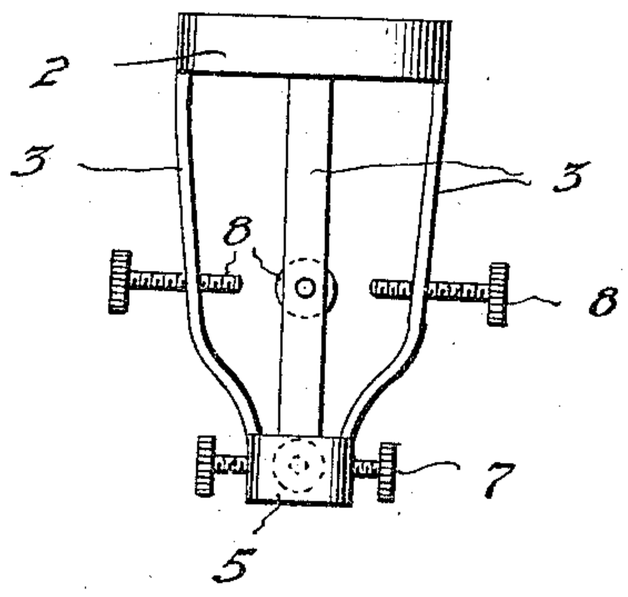


Fig. 2.



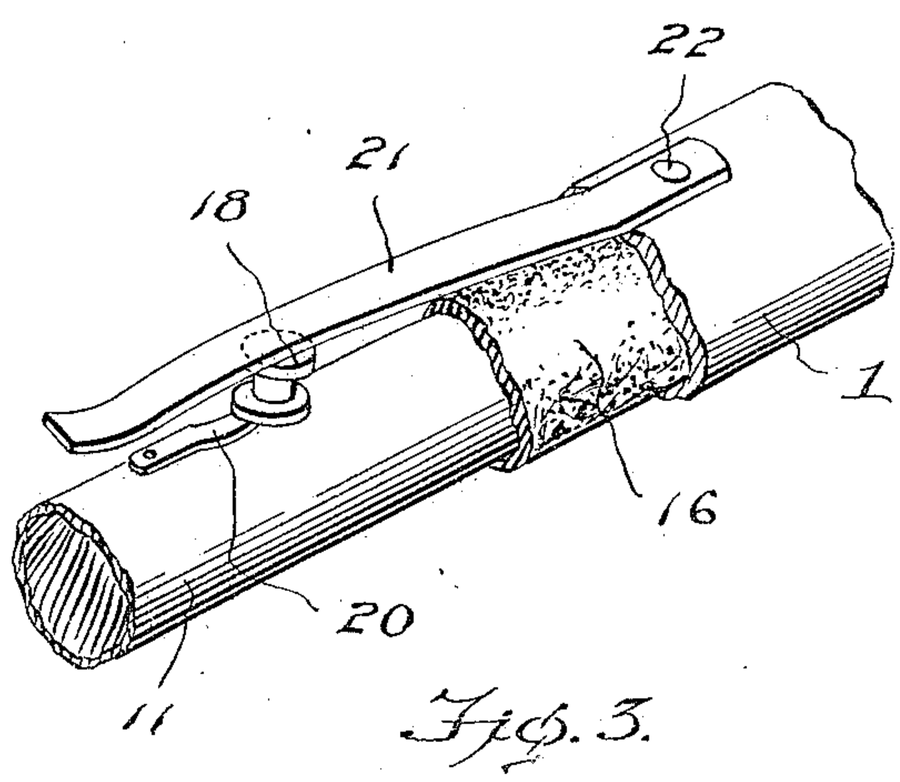


Fig. 3.

Witnesses

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ELECTRICALLY-LIGHTED PENCIL.

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To all whom it may concern:

Be it known that I, WILLIS Q. BROWNE, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Electrically-Lighted Pencils; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention comprehends certain new and useful improvements in electrically lighted pencils and has for its primary object to provide a device of this character which will be of exceedingly simple construction as well as cheap to manufacture and highly efficient in use.

The invention has for another object to provide a device of this nature including supporting and holding means for a pencil removably connected with a flash light and constructed in such manner as to not obstruct the rays of light emanating from the bulb of the flash light.

The invention has for another object to provide a pencil holding member of this character which will be of exceedingly simple construction and operation as well as light in weight and cheap to manufacture and is formed in such manner that it may be readily secured to the flash light and the pencil positioned in the holder or removed from the same.

The invention has for a still further object to generally improve and simplify the construction and operation of devices of this character and increase the efficiency thereof without materially increasing the cost of the same.

With the above and other objects in view as will become more apparent as the description proceeds, the invention consists in certain novel features of construction, combination and arrangement of parts as will be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a longitudinal section of the preferred form of my invention with a pencil secured in position in the holder. Fig. 2 is an elevation of the pencil holder removed. Fig. 3 is an enlarged fragmentary elevation of the form of flash light upon which I prefer to secure the pencil holder, showing the manner in which the circuit is completed by an inward pressure upon the spring mounted on the outer face of the casing of the flash light.

Referring more particularly to the drawings in which similar reference characters designate corresponding parts throughout the several views, 1 designates the casing of a flash light upon one end of which is threaded the large inner ring 2 of my improved pencil holder from which project the spaced arms 3 which are brought closer together at their forward ends, as shown at 4 and secured to the small ring 5 through which the pencil 6 may be removably engaged, said pencil being secured in position by means of the screws 7 engaged in the small outer collar 5 and also the larger screws 8 engaged through the arms 3 of the pencil holder. It will therefore be seen, that the pencil 6 may be readily adjusted in the holder and secured in adjusted position. In this form of the device the electric bulb 9, threaded in the forward end of the casing 1, as shown at 10 is inclosed by the arms 3 which are narrow and formed of thin metal in order that the arms 3 may not materially interfere with the radiation of light from the bulb 9.

It will be understood that the bulb 9 is engaged with one end of the dry battery 11, as shown at 12, while the opposite end of the dry battery is engaged with the removable top 13 secured on the opposite end of the casing 1 by means of the threaded flange 14 or by any other suitable means. The end of the dry battery 11 is connected with the removable top 13 and bearing against the same, as designated by the numeral 15 and it will be understood that the dry battery 11 is provided with a suitable wrapping 16 of insulating material to insulate the same from the casing 1.

A little section of the wrapping 16 of insulating material is cut-away, as shown at 17 in order to expose the dry battery 11 at this point and opposite the cut-away portion 17 of the insulating covering 16 is a push button 18 which is mounted in an opening 19 in the outer casing 1 and resiliently retained in its outermost position

by means of a leaf spring 20 to space the inner end of the push button 18 from the dry battery 11, it being understood that the leaf spring 20 is carried by the outer casing 1.

When it is desired to use the pencil 6, however, especially in the dark, a circuit may be completed through the bulb 9 by pressing upon the free end of the leaf spring 21 which has one end secured to the outer face of the casing 1, as shown at 22, and has its free outwardly off-set curved end engaged outwardly of the button 18, whereby inward pressure upon the free end of the spring 21, will serve to force the push button 18 inwardly against the small leaf spring 20 against the dry battery 11 to complete the circuit and light the bulb 9 to furnish illumination, in order that the pencil 6 may be used. As soon, however, as the pressure upon the spring 21 is released, the spring 20 will serve to force the button 18 outwardly and thereby break the circuit.

From the foregoing it will be readily seen that I have provided an electrically lighted pencil which will be of exceedingly simple construction and operation and which may be readily secured upon or removed from a flash light or adjusted with respect to the same.

While the preferred embodiments of the invention have been shown and illustrated, it will be understood that minor changes in the details of construction, and arrangement of parts may be made without departing from the spirit and scope of the invention as claimed or sacrificing any of the advantages thereof.

What is claimed is:—

A device of the class described comprising the combination with the threaded end of a flash light casing and a bulb projecting from the same, a holder screw threaded upon the threaded end of said casing, said holder having its free end curved inwardly and secured by a pencil receiving ring, said holder provided with a plurality of screws for adjustably supporting a pencil therein and means carried by said casing completing a circuit through said bulb.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIS Q. BROWNE.

Witnesses:
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