Jan. 10, 1950 J. P. WILLIAMS 2,493,796

LIGHT EQUIPPED TOOLHOLDER

Filed April 19, 1946 2 Sheets-Sheet 1

Fig. 1

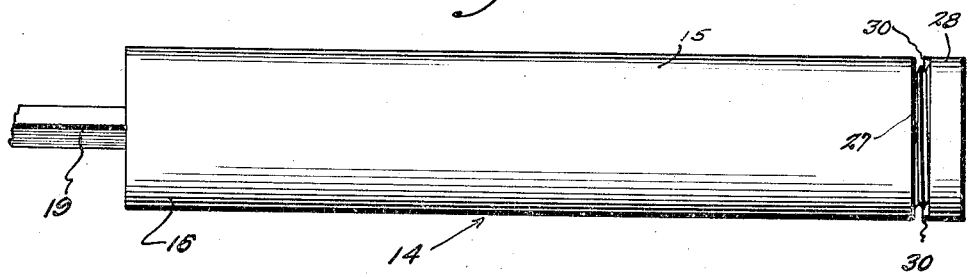


Fig. 2.

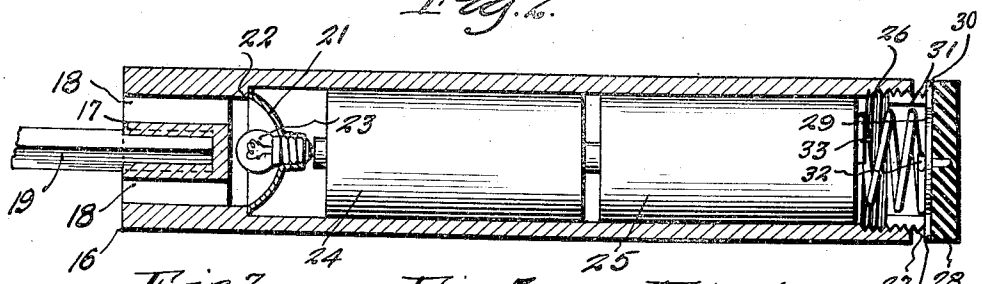


Fig. 3.

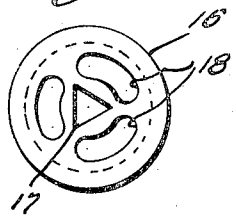


Fig. 5.

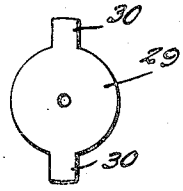


Fig. 4.

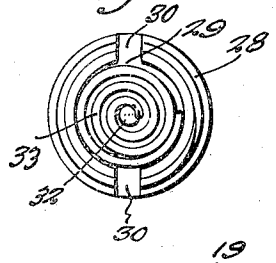


Fig. 6.

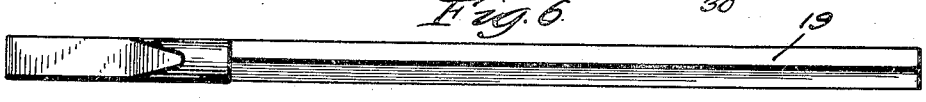
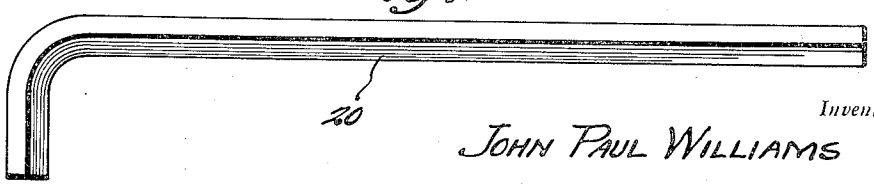


Fig. 7.



Inventor

JOHN PAUL WILLIAMS

By Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

Jan. 10, 1950 J. P. WILLIAMS 2,493,796

LIGHT EQUIPPED TOOLHOLDER

Filed April 19, 1946 2 Sheets-Sheet 2

Fig. 8.

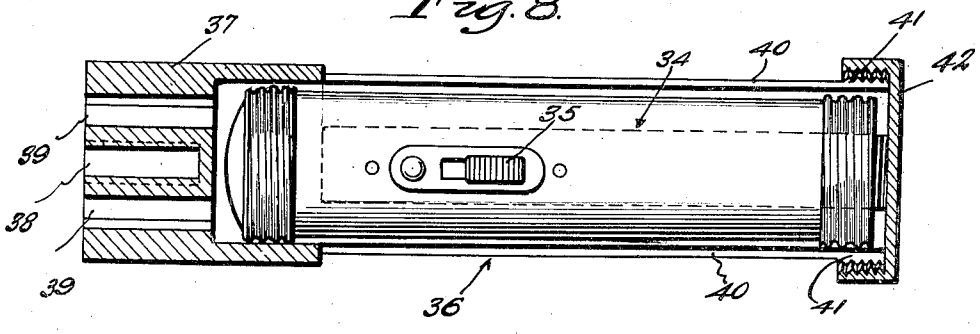


Fig. 9.

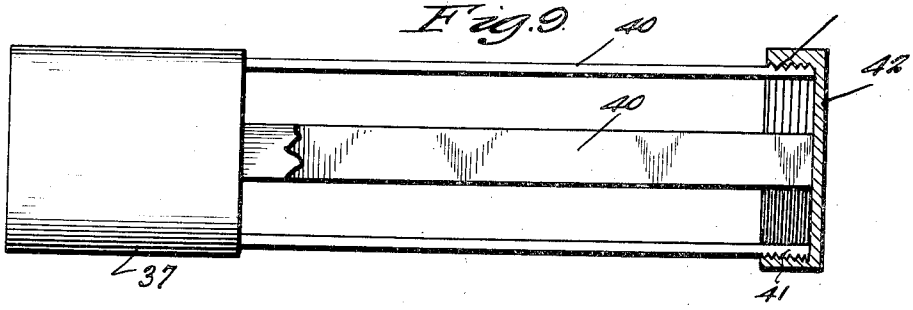


Fig. 10.

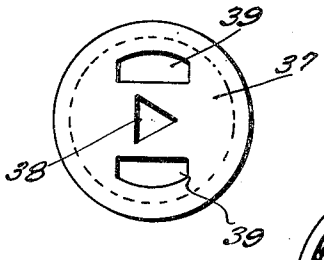


Fig. 11.

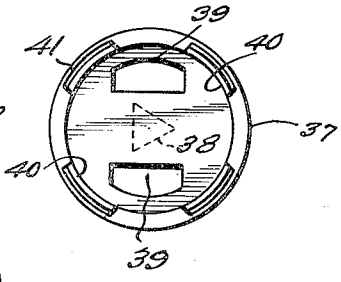
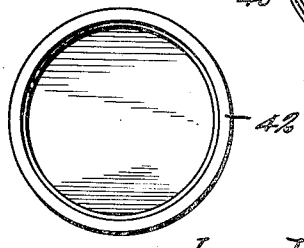


Fig. 12.



Inventor

JOHN PAUL WILLIAMS

By Clarence O'Brien and Harvey B. Jacobson

Attorneys

Patented Jan. 10, 1950 2,493,796

UNITED STATES PATENT OFFICE

2,493,796

LIGHT EQUIPPED TOOLHOLDER

John Paul Williams, Nashville, Tenn.

Application April 19, 1946, Serial No. 663,274

1 Claim. (Cl. 240—6.46)

1

The present invention relates to a novel and improved tool holder embodying a handle and a source of illumination incorporated in the handle, the latter being so constructed and arranged to afford the user a source of artificial light, whereby to permit the light beams or rays to be focused or concentrated on the tool and the work.

The principal object of the invention, as is evident from the preceding introductory statement, is to provide a tool holder and source of illumination combined such as makes it possible to hold the tool and cast a light on the tool and work and to thus obviate the necessity of operating the tool and holder with one hand and holding a light, such as a flashlight, with the other hand.

In carrying out the principles of the invention I employ two forms or styles of holders. One is in the form of an openwork cage having tool holding means at one end, the opposite end being so constructed as to permit an ordinary flashlight to be readily inserted and held in place and properly used in conjunction with the tool holder. The other embodiment of the invention has to do with an especially constructed tool holder characterized by a cylinder to accommodate a flashlight bulb and carrying flashlight batteries, there being a turnable knob at one end and this being of a screw type, whereby to permit same to function as a circuit make and break device.

Other objects, features and advantages of the invention will become more readily apparent from the following description and the accompanying illustrative drawings.

In the drawings, wherein like numerals are employed to designate like parts throughout the views:

Figure 1 is an elevational view of a flashlight equipped tool holder constructed in accordance with the principles of the present invention.

Figure 2 is a central longitudinal view with certain of the parts appearing in elevation.

Figure 3 is a front end elevation of Figures 1 and 2, that is a view observing the left-hand end of said figures and showing the especially constructed tool holding head.

Figure 4 is an inside elevational view of the closure at the opposite end of the cylinder, this to bring out the particular construction thereof.

Figure 5 is an elevational view of the contact disc.

Figure 6 is an elevational view showing one type of tool used in the holder.

2

Figure 7 is an elevational view of another type, for example an L-shaped socket wrench.

Figure 8 is a view like Figure 2, that is a view insection and elevation, showing a modified type of holder, this being the aforementioned openwork cage construction.

Figure 9 is a view of the cage, in section and elevation, with the pocket flashlight removed.

Figure 10 is an end elevation of Figures 8 and 9, observing same in a direction from left to right.

Figure 11 is an end elevation of the opposite end, observing the structure in a direction from right to left with the screw-cap removed, and

Figure 12 is an elevational view of the screw-cap.

Referring now to the form or embodiment of the invention shown in Figures 1 to 5 inclusive, it will be seen that the combination tool holder and handle is denoted, as a unit, by the numeral 14. This comprises an all metal one-piece body characterized primarily by a cylinder 15. At the left-hand end 16 the cylinder is constructed with a triangular centrally arranged socket 17 surrounded by segmental apertures or openings 18 forming passages for the light rays. This end of the holder is therefore an apertured and socketed head and serves to accommodate the various tools used. In the drawings I have shown one type of tool at 19 in Figure 6, and another type at 20 in Figure 7. In practice, the shank of the tool is fitted telescopically and removably into the socket 17, as is obvious. On the interior, as seen in Figure 2, there is a socket equipped reflector 21 removably abutting the co-acting shoulder 22. The flashlight bulb is indicated at 23 and the dry cell batteries are indicated at 24 and 25. These are conventional batteries. The right-hand end of the cylinder is internally screw-threaded as at 26 to accommodate the screw-threaded neck 27 of the turnable closure 28. This part 28 is an insulation material and is provided on its interior with a metal electricity conducting disc 29. The latter is provided with outstanding diametrically opposite lugs 30 and these extend through diametrically opposite slots 31 formed in the screw-threaded neck 27. The disc 29 is held in place by a suitable fastener 32 and a coiled spring 33 is interposed between the disc and adjacent battery 25. By turning the closure 28 and screwing same into the barrel or cylinder said contact lugs 30 come into electrical contact with the cylinder, thus making the desired electrical circuit and illuminating the bulb 23. It follows that the closure means just de-

scribed is in effect a switch for optional hand operation.

It is obvious that light rays from the bulb 23 are projected through the various openings or passages 18. They are thus flashed and focused or concentrated upon the area on the tool and work, making it possible to operate the tool and illuminate the work in a simple, practical and expedient manner.

Reference is had now to the other form of the invention seen in Figures 8 to 12 inclusive. Here I utilize a regulation or standard flashlight 34 having a switch button 35. The handle in this instance is in the form of an openwork cage 36. Actually, the cage comprises a head 37 of cylindrical form, said head having a central tool socket 38 and light passages 39. The head carries a plurality of longitudinally extending circumferentially spaced fingers or limbs 40 and these have their right-hand ends provided with screw-threaded portions 41 to accommodate the screw threads on the rim of the closing cap 42.

It will be seen therefore, that the form of the invention just described is more on the nature of an adapter and handle and tool holder combined in that it serves to adapt itself to accommodate an ordinary flashlight. The form of the invention first described is in effect, a combination flashlight and tool holder. It is evident however, that both forms of the invention possess generic features of construction and the claim is presented accordingly.

A careful consideration of the foregoing description in conjunction with the invention as illustrated in the drawings will enable the reader to obtain a clear understanding and impression of the alleged features of merit and novelty sufficient to clarify the construction of the invention as hereinafter claimed.

Minor changes in shape, size, materials and rearrangement of parts may be resorted to in actual practice so long as no departure is made from the invention as claimed.

What I claim as my invention is:

In a structure of the class described, an elongated cylindrical casing which is substantially solid at one end, the latter end having a central tool socket and provided on opposite sides of said tool socket with apertures affording communication between the interior of the casing and exterior thereof, said apertures providing passages for light rays, the opposite end of said casing being internally screw-threaded, a closing cap of insulation material including a screw-threaded neck threaded into said casing, said neck having diametrically opposite notches, a metallic disk fastened to said cap on the inner side of the cap and having diametrically opposite lugs extending through and beyond the notches and adapted to come into contact with the adjacent end of the casing when said cap is screwed into the casing to a predetermined point.

JOHN PAUL WILLIAMS.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,253,769	Anderson	Jan. 15, 1918
1,309,363	Meinke	July 8, 1919
1,440,325	Wilhelm	Dec. 26. 1922
2,242,536	Montgomery	May 20, 1941
2,288,093	Kaffenberger el al.	June 30, 1942
2,408,601	Blauvelt	Oct. 1, 1946