Aug. 12, 1941. E. G. LOFGREN 2,252,267

ILLUMINATING ATTACHMENT FOR LUBRICATING GUNS

Filed April 29, 1940

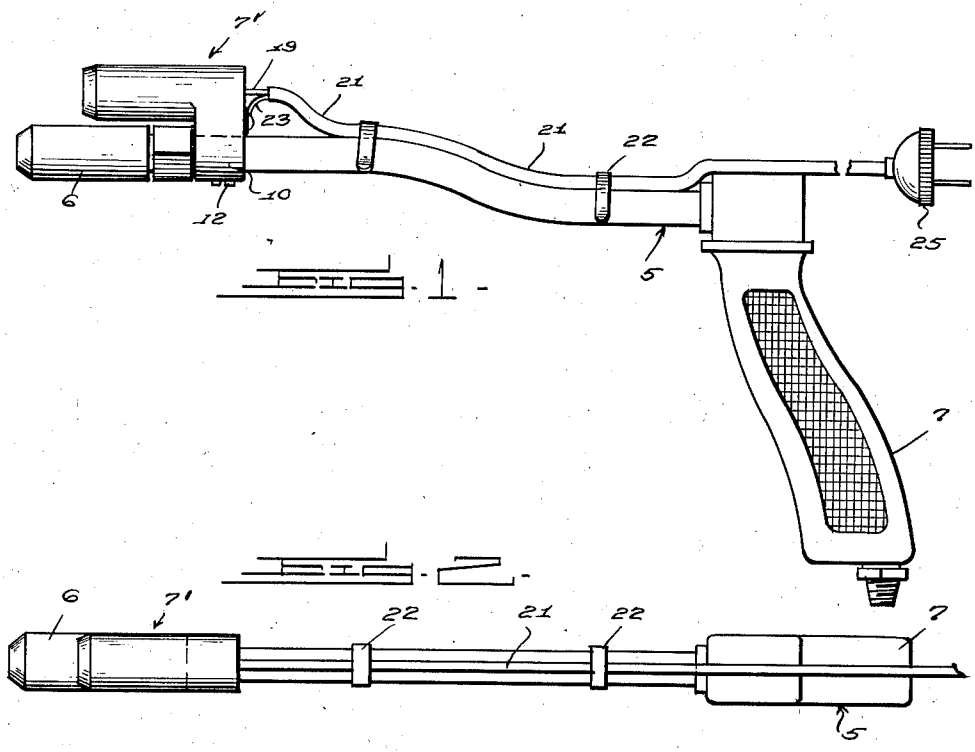


FIG. 1.

FIG. 2.

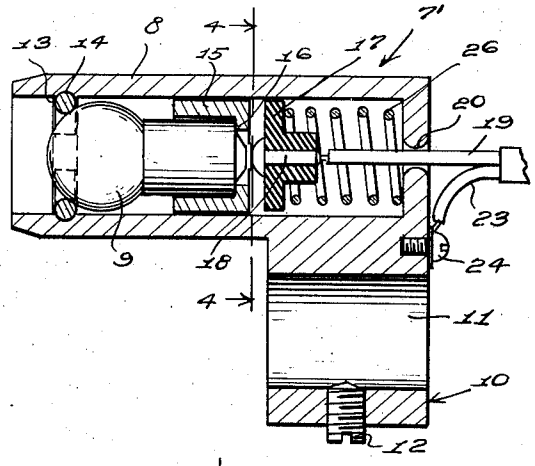


FIG. 3.

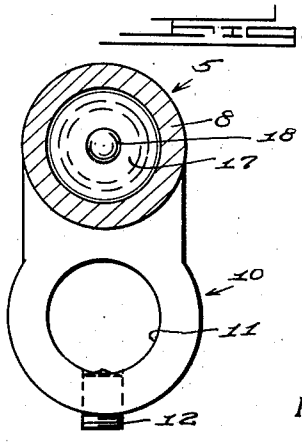


FIG. 4.

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Patented Aug. 12, 1941 2,252,267

UNITED STATES PATENT OFFICE

2,252,267

ILLUMINATING ATTACHMENT FOR LUBRICATING GUNS

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Application April 29, 1940, Serial No. 332,344

1 Claim. (Cl. 240—2)

This invention relates to an illuminating device for lubricating guns employed in the lubrication of automobiles and like vehicles, and has for the primary object the provision of a device of this character which may be easily and quickly installed on any type of power or hand actuated lubricating gun and remain a part thereof for the purpose of permitting the operator to easily locate and apply the gun to a lubricant fitting, using only the hand employed in the actuation of the gun, leaving the other hand free for other work.

With these 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 drawing, in which

Figure 1 is a side elevation illustrating a conventional type of lubricating gun equipped with an attachment constructed in accordance with my invention.

Figure 2 is a top plan view illustrating the same.

Figure 3 is a vertical sectional view illustrating the attachment.

Figure 4 is a sectional view taken on the line 4—4 of Figure 3.

Referring in detail to the drawing, the numeral 5 indicates a conventional type of lubricating gun employed at service stations for the lubrication of motor vehicles. The nozzle or fitting engaging end of the gun is indicated by the character 6 and is shown as being located at a distance from the hand grip 7 of the gun. Frequently it is found troublesome to apply the nozzle 6 to a fitting where the fitting is located in an inaccessible or dark place. Also when employing a gun at night where the illumination is not brilliant, considerable difficulty is experienced in applying the nozzle 6 to the lubricant fitting. To permit easy and quick application of the nozzle 6 to a fitting the present invention is employed and as shown in Figure 1. is located on the gun adjacent to the nozzle so as to direct rays of light directly over the nozzle and onto a fitting permitting the operator to easily apply the gun to the fitting.

The present invention consists primarily in an electric lamp casing 7' which includes an elongated cylindrical portion 8 open at one end to permit light rays to shine therefrom from an electric lamp 9. The lamp casing further includes an attaching bracket 10 consisting of a cylindrical portion 11 forming an integral part of the cylindrical portion 8 and arranged at right angles thereto. The cylindrical portion 11 may be readily fitted over the shank of the gun 5 after the removal of the nozzle or fitting engaging end 6 has been removed and is held on the shank by a set screw 12.

Adjacent the open end of the cylindrical portion 8 of the lamp housing 7' an internal groove 13 is provided in which is mounted a split ring 14 acting as an abutment for the electric lamp 9. The base of the electric lamp is mounted in a sleeve 15. Said sleeve has a flange 16 at one end to form a seat for the base of the lamp and to expose the contact thereof. The sleeve 15 is of electric conductive material and has a sliding fit with the cylindrical portion 8 of the casing 7'.

A contact mounting 17 of insulating material and in the form of a washer is located between the closed end of the housing and the sleeve 15 and carries a contact 18 to engage with the contact of the base of the electric lamp. An electric conductor 19 is connected to the contact 18 and extends through an opening 20 in the closed end of the cylindrical portion 8 of the casing 7' and enters a flexible conduit 21 secured on the shank of the gun by clips 22. A conductor 23 also is carried by the flexible conduit 21 and is electrically secured on the lamp casing 7', as shown at 24. The conductors are connected to an electric fitting 25 of the conventional plug type to permit plugging thereof into a conventional electric output.

A coil spring 26 is located in the casing 7' between the closed end thereof and the washer 17 for urging the washer towards the sleeve 15 to bring the contact 18 in engagement with the contact of the base of the lamp and also to urge the lamp in tight engagement with the retaining ring 14.

Should the lamp 9 break or burn out it is only necessary to remove the ring 14 whence the entire assembly within the casing 7' for the electric lamp can be easily removed to permit repairs or renewal of another electric lamp.

With the device applied to a gun as shown and connected electrically to an electric output, it will be seen that a very efficient illumination will be provided for the gun so that the operator using the gun can readily locate lubricant fittings that are in dark places on a motor vehicle or for locating any lubricant fitting at night time.

While I have shown and described a preferred

embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of the invention as claimed.

Having thus described the invention, what I claim is:

In an illuminating device, a cylindrical-shaped casing including a fully open end and a wall closing the opposite end of said casing and provided with an aperture to admit into said casing an electric conductor of an electric circuit, said casing having another conductor of the circuit connected thereto, an electric conductive sleeve slidable in the casing to receive a base of an electric lamp, a flange at one end of the sleeve to form an abutment for the base of the lamp and to expose a contact of the lamp, an insulated disc slidable in the casing, a contact carried by the disc and connected to the first mentioned conductor, an expansion spring bearing against the end wall and the disc to bring said contacts in engagement, said casing having an internal annular groove, and a split annular ring fitted in the groove and engaged by the lamp to act as a stop for limiting the sliding movement of the lamp under the influence of the spring.

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