Aug. 23 1938. H. J. ROSENER 2,127,700

ROAD REFLECTOR

Filed July 3, 1937

Fig. 1.

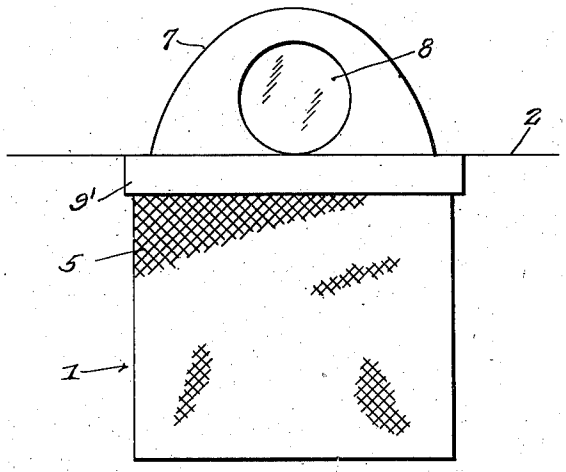
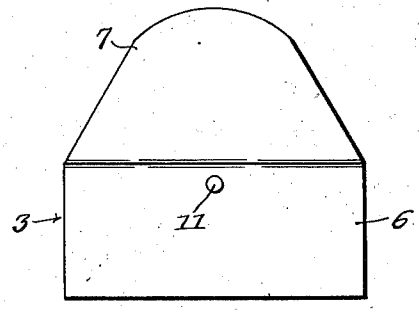


Fig. 4.



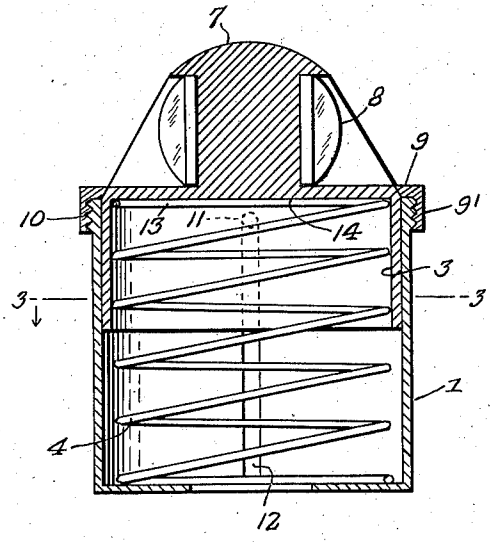


Fig. 2.

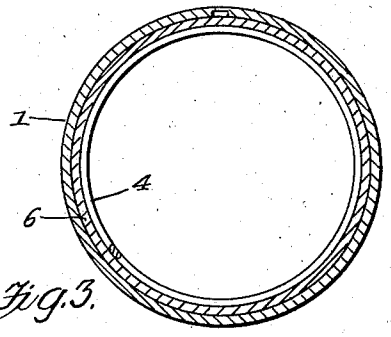


Fig. 3.

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UNITED STATES PATENT OFFICE

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ROAD REFLECTOR

Harold J. Rosener, New Ulm, Minn.

Application July 3, 1937, Serial No. 151,932

1 Claim. (Cl. 40—125)

This invention relates generally to reflectors, and more especially to a double lighting center line road reflector.

One object of my invention is to provide a road reflector that may be embedded in the concrete highway with only the upper semi-spherical or half-ball like head of the piston or plunger that carries the reflectors, exposed.

A further object of my invention is to provide a road reflector in which the reflector carrying piston or plunger is mounted for vertical reciprocating movement in a suitable casing or housing and is instantly depressed when brought into contact with a snow plow or similar device, in order to prevent damage to either the reflector or the snow plow.

Another object of my invention is to provide a road reflector of the character specified, which is simple and economical in construction and highly efficient and durable in use.

With the foregoing and other objects in view that will appear as the nature of my invention is better understood, the same consists in the novel features of construction, combination and arrangement of parts illustrated in the accompanying drawing, and more particularly pointed out in the appended claim.

In the accompanying drawing, in which like parts are designated by like reference characters throughout the several views, and which are for illustrative purposes only and are therefore not drawn to scale:

Figure 1 is a side elevation, illustrating the application of my invention.

Figure 2 is a vertical transverse section.

Figure 3 is a horizontal section, taken on line 3—3 of Figure 2, and Figure 4 is a detail elevation of the reflector carrying piston or plunger.

Referring to the drawing for a more particular description of my invention, my improved double light center line reflector essentially comprises the cylindrical casing or housing 1, which is embedded in the concrete street or highway 2, as shown; the reflector carrying piston or plunger 3, mounted for vertical reciprocating movement in the casing and the coil spring 4 for normally supporting the piston or plunger in elevated or operative position.

The casing 1 is of hollow cylindrical form and is preferably constructed of aluminum or other light durable metal. It is made with a corrugated or roughened outer surface 5, to prevent the same from working loose in the concrete street or highway in which it is embedded.

The piston 3 comprises the hollow cylindrical body portion 6, and the solid semi-spherical or half-ball like head 7, which carries the two oppositely disposed counter-sunk light reflectors 8, of any ordinary or approved construction. The semi-spherical head 7 of the piston, together with the reflectors 8, are the only parts of the complete device that are normally exposed above the upper surface of the highway, and the upward movement of the piston is governed or limited by the flange 9 of the interiorly threaded annular ring 9' which screws on the interiorly threaded upper end 10 of the casing.

In carrying out my invention, the hollow cylindrical body portion 6 of the piston 3, is formed with an outwardly extending lug 11, which works in a corresponding recess or key-way 12 formed in the inner wall or surface of the casing 1. The coil spring 4 is mounted in position with its upper end 13 extending into the hollow body portion 6 of the piston 3 and bearing against the bottom wall 14 of the semi-spherical head 7, and with its lower end fitting around the annular boss or flange 15, formed at the lower open end of the casing.

With the type of road reflector now in use, the blade of the snow plow not only often catches the reflector and tears the same out of the street or highway, but the plow blade itself is often seriously damaged or wrecked. It is claimed, however, that this objection can be entirely overcome through the adoption and use of my new design, by virtue of the fact that the semi-spherical or half-ball like head of the piston carrying the light reflectors, will be instantly depressed to or slightly below the upper surface or level of the highway when brought into contact with the plow blade and permit the latter to freely pass thereover. It will be understood that when the pressure on the head of the reflector is released, the piston 3 will be immediately returned to its normal elevated position by the action of the coil spring 4.

From the foregoing description taken in connection with the drawing, it is thought that the construction, operation and advantages of my invention will be readily understood, without requiring a more extended explanation.

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

In a road reflector of the character specified, a cylindrical casing or housing formed in its inner surface with a vertical key-way, a hollow cylindrical piston mounted for vertical reciprocating movement in the casing, said piston formed with an upper semi-spherical or ball-like head nor-

mally exposed above the upper edge of the casing and provided on its outer surface with an outwardly projecting pin or stud working in said key-way, light reflectors carried by said semi-spherical head, a coil spring for normally supporting the piston in raised operative position, said spring arranged with its upper end closely fitting within the hollow body portion of the piston and its lower end bearing on the bottom of the casing or housing, and an interiorly threaded collar screwed on the upper end of the casing and formed with an inwardly extending beveled flange limiting the upward movement of the piston.

HAROLD J. ROSENER.