

June 8, 1926.

1,588,078

S. T. WINDSOR

VALVE SILENCER

Filed March 31, 1924

Fig. 1.

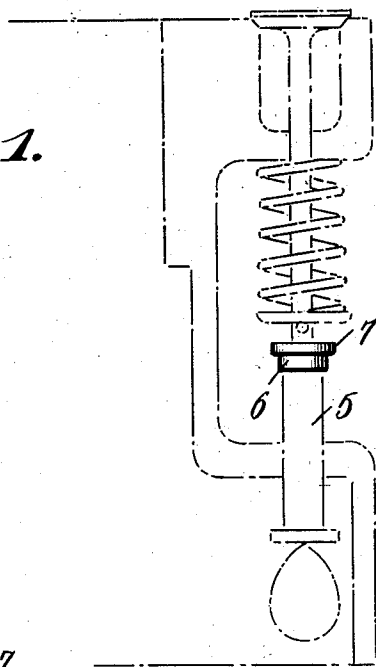


Fig. 3.

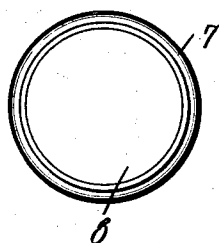


Fig. 4.

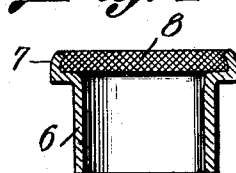
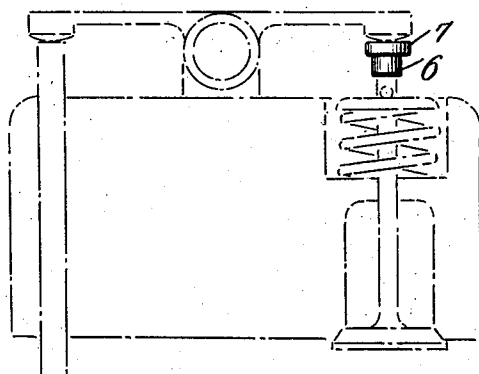


Fig. 2.



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VALVE SILENCER.

Application filed March 31, 1924. Serial No. 703,146.

The present invention has reference to internal combustion engines, and aims to provide novel means to be employed in connection with the valve stems thereof for reducing wear between the valves and valve lifters, and at the same time silencing the valve.

Another important object of the invention is to provide a device of this character which may be readily and easily positioned on valve stems or lifters now in use, eliminating the necessity of making alterations in the usual internal combustion engine structure, to apply the same.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is an elevational view disclosing a device constructed in accordance with the invention, as positioned on a valve lifter.

Figure 2 is an elevational view disclosing a silencer positioned on a valve stem.

Figure 3 is a plan view of the silencer.

Figure 4 is a vertical sectional view through a silencer.

Referring to the drawing in detail, the reference character 5 indicates a valve lifter

which is of the usual construction and which is employed for lifting the usual valve associated therewith and forming a part of an internal combustion engine.

The silencer includes a sleeve 6 and an upwardly extended flange 7, the sleeve being designed to fit over the valve stem or lifter on which the device is positioned to hold the silencer in position.

Secured to the silencer and held within the flange 7 is a disk 8 formed of rawhide or other suitable fibrous material to withstand wear, the disk being designed to rest between the valve stem and lifter and cushion the movements thereof.

As shown by Figure 2, the device is illustrated as positioned on the upper end of overhead valve stems, the disk 8 being disposed between the valve stem and rocker arm to reduce the noise incident to the rocker arm contacting with the valve stem to the minimum.

I claim:—

In a valve silencer, a sleeve adapted to be fitted over a valve stem, said sleeve having a circular outwardly and upwardly extended flange formed at its upper end, the outwardly extended portion of the flange defining a shoulder, a disk of fibrous material positioned on the shoulder, the upwardly extended portion of the flange extending inwardly and overlying a portion of the disk to secure the disk in position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

SAMUEL T. WINDSOR.