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SILENCER FOR FIREARMS.

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To all whom it may concern:

Be it known that I, Franz Wildner, a citizen of and resident of Buschullersdorf, near Reichenberg, in Bohemia, Czechoslovakia, have invented certain new and useful Improvements in Silencers for Firearms, of which the following is a specification.

The present invention relates to improvements in silencers for fire-arms, of that known type which not only deadens the loud noise from the discharge of the shot but also renders fire and smoke invisible.

The improved device is to be fixed on the barrel muzzle of the fire-arm, and it essentially comprises a perforated external tube with closed ends and having a shorter internal perforated tube with closed front end therein and a coil spring intervening between the front ends of said tubes, while transversely to and at the inner front ends of said tubes there are provided double discs of different material to be passed by the projectile and adapted to close again the holes caused by the passage of the latter, holes being provided in the closed front ends of said tubes in alignment with the bore of the barrel of the fire-arm for a passage of the projectile, while the device is further fitted within with an aim finder consisting of a conical tube having its inner walls coated with a luminous matter.

The accompanying drawing shows two appropriate constructional forms of the subject matter of the present invention:

- Figs. 1 and 2 are respectively a side view and an end view of one form.
- Fig. 3 is a longitudinal section through the same, while Figs. 4 and 5 are similar views, to those in Figs. 1 and 2, of another form, and Fig. 6 is a longitudinal section through the latter:

Figs. 7 and 8 show details.

The perforated external tube a is at its rear end closed by a cover b which carries a socket c, that can be passed upon the muzzle of the barrel d of a fire-arm and detachably attached thereto, for instance by means of bayonet closure, for which purpose guide pins q are secured to the inner side of the tube a while in the ring h and in the cover i corresponding grooves or notches r are provided (Fig. 8).

In the construction shown in Figs. 4 to 6 inclusive, the socket c is concentrically arranged on the external tube a while an aim finder consisting of a conical tube s is provided within the tubes ag and mounted in corresponding holes in the covers l, i, b, the tube s being put in position from the front end of the device and held therein by its frictional contact with said bearing-holes. Through said aim finder, the aim can be sharply and distinctly traced, because the visual faculty is concentrated to a small space. The holes in the covers k, l for the
passage of the projectile are centrally located therein. This concentric arrangement of the tubes around the barrel results in a uniform distribution of the waves of sound and of the powder gases to all sides. For shooting in the dark, the inside of the aim finder is coated with a luminous matter such as radium, phosphorus, or the like, permitting an aiming just as during daytime.

To make the device as light as possible, its metal parts consist preferably of aluminium or the like light material.

What I claim is:

A silencer for fire-arms, comprising, in combination, a perforated external tube having closed ends and adapted to be fixed with its rear end on the barrel muzzle of the fire-arm, a shorter internal perforated tube having a closed front end and concentrically arranged in said external tube, the closed front ends of said tubes having holes therein for the passage of the projectile, a coil spring intervening between the front ends of said tubes, transverse double discs of different materials at the inner front ends of said tubes to be passed by the projectile and adapted to close again the holes caused by the passage of the latter, means to prevent said internal tube from twisting within said external tube, and an aim finder within said tubes consisting of a conical tube having its inner walls coated with a luminous matter.

FRANZ WILDNER.