

B. LOVE.
 FIREARM ATTACHMENT.
 APPLICATION FILED APR. 16, 1917.

1,259,251.

Patented Mar. 12, 1918.

FIG. 1 -

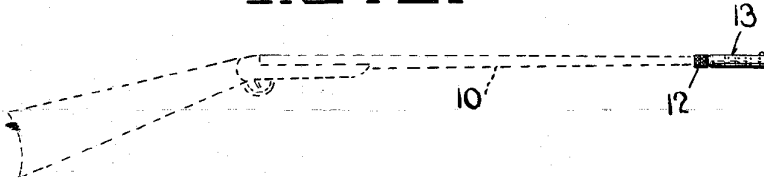


FIG. 2 -

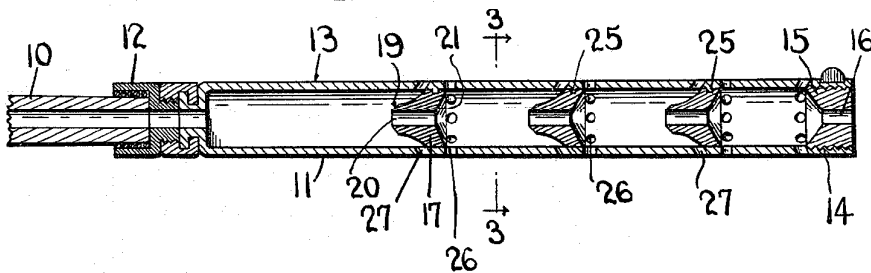


FIG. 3 -

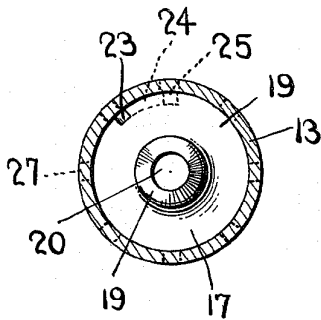


FIG. 4 -

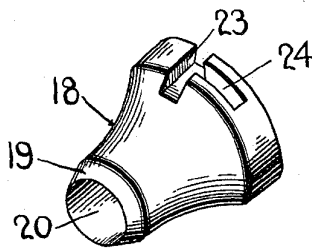
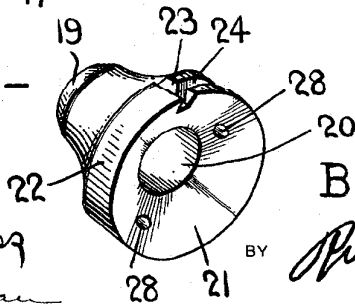


FIG. 5 -



WITNESSES

S. B. James
Wm. Zeaman

BY

Richard Owen

INVENTOR

Bane Love

ATTORNEY

UNITED STATES PATENT OFFICE.

BANE LOVE, OF ATLANTA, GEORGIA.

FIREARM ATTACHMENT.

1,259,251.

Specification of Letters Patent. Patented Mar. 12, 1918.

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To all whom it may concern:

Be it known that I, BANE LOVE, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Firearm Attachments, of which the following is a specification.

This invention has relation to ordnance, and has for an object to provide an attachment for rifles, revolvers or the like, whereby the report subsequent to the discharge of the projectile may be deadened.

Another object of the invention is to provide a device of the above character embodying a plurality of baffle elements located within a suitable casing to receive the same, said baffle elements being removable from the casing to permit access to the interior thereof for cleaning or repair.

A still further object of the invention is to provide a device of this character constructed in a manner to permit the comparatively rapid escape therefrom of the gases from the barrel of the firearm, at the same time considerably decreasing the intensity of the report.

In addition to the foregoing my invention comprehends improvements in the details of construction and arrangement of the parts to be hereinafter more fully described and particularly set forth in the appended claims.

In the accompanying drawings in which similar and corresponding parts are designated by the same characters of reference throughout the several views in which they appear;

Figure 1, is a view in side elevation of a device constructed in accordance with my invention illustrating its application to a firearm.

Fig. 2, is a view in longitudinal section on an enlarged scale of my device.

Fig. 3, is a transverse section taken on the line 3—3 of the preceding figure and

Figs. 4 and 5, are perspective views of one of the baffles removed to better illustrate their configuration.

With reference to the drawings, 10 indicates the barrel of a rifle, to the muzzle of which is attached my silencing device indicated at 11 through the medium of a suitable connection indicated at 12 which may be of conventional design.

My device comprises a tubular casing 13 adapted for connection at one end to the muzzle of a rifle as explained above, and

having its opposite end internally threaded as at 14 to receive a plug 15 which is provided with a central aperture 16 of a diameter sufficient to permit the passage there-through of the projectile.

A plurality of baffle elements 17 are provided within the tubular casing, each baffle element being substantially conical in configuration with the sides curved as at 18 and the apices thereof further beveled as at 19. An aperture 20 of a size sufficient to permit the passage of the projectile there-through is provided in each baffle element, said passage at the base portion of each baffle being expanded outward as indicated at 21.

The base portion of each baffle element is formed with a relatively broad circumferential portion 22 for engaging the interior of the casing whereby the baffles may be properly centered to dispose the central apertures 20 thereof in mutual alinement and each broad portion 21 is furthermore provided with a longitudinally extending slot 23 which is formed with a lateral extension 24 which follows the circumference of the baffle elements. The interior of the casing 13 is formed with a plurality of longitudinally spaced lugs 25, corresponding in number to the number of baffle elements employed, and when the parts of the device are assembled, a baffle element is inserted through the end of the casing normally closed by the plug 14 permitting the lugs 25 to pass through the slot 23 of the baffle elements, as it is moved into the casing. When the baffle element has been moved to a position adjacent a lug 25 which is remotest from the end of the casing closed by said plug 14, the lug is disposed within the lateral recess 24 of the baffle element by rotating said element, whereupon said element may be securely locked in place against longitudinal movement relative to the casing. Each baffle element is likewise inserted and securely engaged around its corresponding lug, the plug 14 being finally inserted in the end of the device and secured therein. In this manner the apices of all of the baffle elements will be directed toward the muzzle of the firearm.

The casing 13 is furthermore provided adjacent each baffle element and at the side thereof remote from the barrel with a series of circumferentially spaced apertures 26, a series of circumferentially spaced apertures 27 being also provided adjacent each baffle

element at the side thereof adjacent the muzzle of the firearm. This will be apparent from Fig. 2 of the drawings, and it will be further noted that the openings 27 are extended through the wall of the casing at an angle relative to the longitudinal axis thereof in a direction away from the muzzle of the gun whereby to permit unobstructed passage of gases therethrough. The series of openings 26 may be formed in the casing in any manner desired, the object being to relieve the pressure between adjacent baffle elements.

It will be obvious from the foregoing that the projectile as it leaves the muzzle of the firearm may pass through the central apertures of the baffle elements and out of the device through the passage in the plug 14; however, owing to the expansive nature of the gases which follow the projectile, the passage of said gases through the device may be retarded by impinging upon the curved exterior walls of the baffle elements and permitted to escape through the series of openings 26 and 27 whereby the usual report is either silenced or entirely eliminated. It will also be apparent that owing to the resistance afforded by the baffle elements to the escape of the gases from the firearm, the recoil will be materially reduced.

It will be apparent that I have provided a silencing device which may be entirely disassembled thereby permitting the easy removal of the carbonaceous incrustations which inevitably form upon the interior of devices of this character, thereby permitting the maintenance of the device at a high degree of efficiency. The base portion of each baffle element may be provided with a pair of depressions 28 to permit the insertion therein of a tool when the baffle elements are to be removed.

While I have illustrated and described my invention with some degree of particularity, I realize that in practice various alterations thereover may be made, and I therefore desire to reserve the right and privilege of changing the form of the details of construction, or otherwise altering the arrangement of the correlated parts without departing from the spirit of the invention or the scope of the appended claims.

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

1. In a silencing device for firearms, a tubular casing having a plurality of circumferential series of openings in its walls, said openings extending outward in a direction opposite to that end of the device which is adapted to be attached to the firearm, and a plurality of baffles within the casing one be-

ing located in advance of each series of openings.

2. In a silencing device for firearms a tubular casing having a plurality of circumferential series of openings in its walls extending at an angle to the longitudinal axis of the casing in a direction outwardly opposite to that end of the device which is adapted for attachment to the firearm, a circumferential series of openings formed adjacent each of the first mentioned series, the second mentioned openings extending radially outward and a plurality of baffle plates mounted within the casing one being located between each of the first and second series of openings.

3. In a silencing device for firearms, a tubular casing, means for removably securing one end to the muzzle of a firearm, a plurality of baffle elements removably held within the casing, each element being substantially conical and centrally apertured with its apex directed toward the end of the device adapted for connection to the muzzle of the firearm, and means for properly spacing and securing the elements in place, the casing having a series of apertures disposed between each element, and a second series of apertures formed adjacent the tapering sides of the baffle elements and bored in a direction at an angle to the longitudinal axis of the casing and in a direction away from the point of attachment to the muzzle of the firearm.

4. In a silencing device for firearms, a tubular casing, a plurality of baffle elements adapted to be removably held therein, a series of longitudinally spaced lugs formed on the interior surface of the casing, each element having a slot to permit movement of the elements through the casing whereby the lugs may pass through the slots, and means for removably securing the device to the muzzle of a firearm.

5. In a silencing device for firearms, a tubular casing, a plurality of baffle elements adapted to be removably held therein, and a series of longitudinally spaced lugs formed on the interior surface of the casing, each element having a longitudinally extending peripheral slot to permit insertion of the elements in the casing whereby the lugs may pass through said slots, each slot having a lateral extension, to permit engagement therein of the lugs when the element has been properly placed to secure said element in place.

In testimony whereof I affix my signature in presence of two witnesses.

BANE LOVE.

Witnesses:

BENJ. W. HARGRAVE,
A. R. ALMOND.