

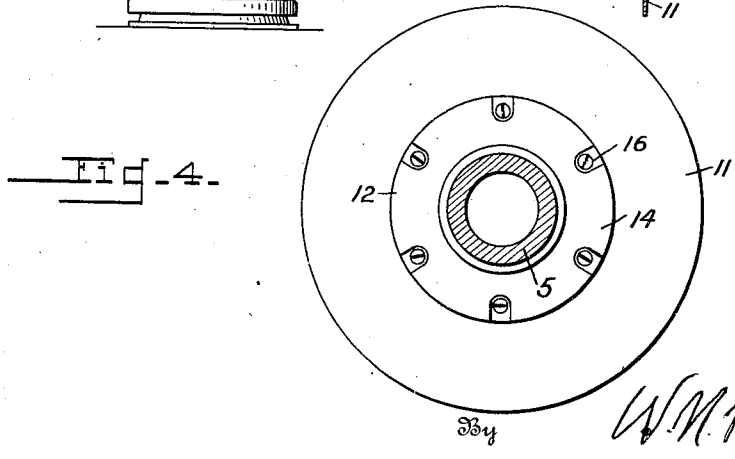
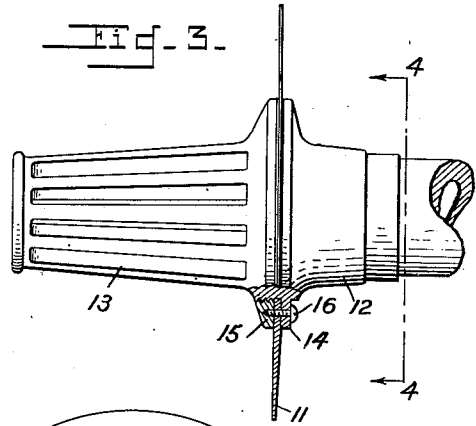
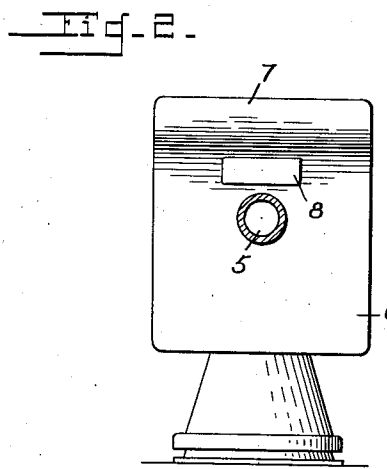
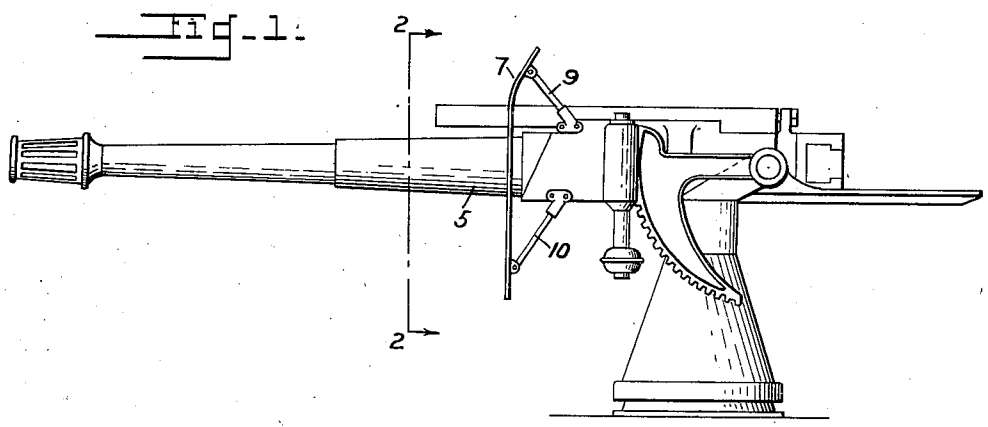
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BAFFLE PLATE

Filed April 28, 1924



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# UNITED STATES PATENT OFFICE.

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## BAFFLE PLATE.

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(GRANTED UNDER THE ACT OF MARCH 3, 1883; 22 STAT. L. 625.)

To all whom it may concern:

Be it known that I, JOHN B. ROSE, a citizen of the United States, and a resident of Warrenton, county of Fauquier, and State of Virginia, have invented an Improvement in Baffle Plates, of which the following is a specification.

The invention described herein may be used by the Government, or any of its officers or employees in prosecution of work for the Government, or by any other person in the United States, without payment to me of any royalty thereon, in accordance with the act of March 3, 1883.

My invention has reference to improvements in baffle plates for guns, and more particularly it resides in the provision of means for deflecting the gases which are emitted from muzzle brakes or recoil checks.

The practical application of muzzle brakes to guns must provide for a final dissipation of the gases in such a manner that the crew operating the gun will not be seriously embarrassed. The gases following the projectile through the bore of the gun, impinge against the muzzle brake and are emitted, as a rule, in the direction of the gun crew. The quantity of the reduction in the recoil is governed by the direction in which the gases are emitted from the brake and in order to serve the maximum efficiency the exits are usually designed to disperse the gases in a line approximately parallel to the directions of recoil.

While I have shown in a companion application a method of directing the resultant movement of the escaping gases, I may use the present invention either separately or in connection therewith as an aid in counteracting the influence of wind and the like.

To these and other ends, my invention consists in the construction, arrangement, and combination of parts, described hereinafter and pointed out in the claims forming a part of this specification.

Two embodiments of my invention are illustrated by way of example in the accompanying drawings, in which,

Fig. 1 is a side elevation of a gun showing my baffle plate in position near the breech;

Fig. 2 is a sectional view taken on the line 2-2 of Fig. 1;

Fig. 3 is a side elevation of a muzzle brake and gun muzzle, partly broken to show the method of securing a modified form of the baffle plate; and

Fig. 4 is a sectional view taken on the line 4-4 of Fig. 3.

In the drawings wherein the like characters of reference designate like or similar parts,

5 indicates the barrel of a gun which is embraced forwardly of the breech by a baffle plate 6, the upper portion of which may be bent rearwardly as at 7. Situated in the central portion of the plate and slightly above the gun barrel is a rectangular aperture 8, which may be used for the reception of a recoil mechanism or a gun sight. The plate is rigidly held in position by means of supporting arms 9 and 10, secured to the gun mount. If desired, the plate may be positioned at any point intermediate the gun mount and muzzle. The rearwardly bent portion 7 is designed to deflect the gases over the heads of the gun crew.

The form shown in Figures 3 and 4 comprises a baffle plate 11, which is preferably of a circular shape and is mounted at the muzzle of the gun in connection with the muzzle brake. An attaching collar 12 formed on the muzzle brake 13 is provided with an annular flange 14, against which is seated the baffle plate 11. A ring 15 threadedly mounted on the attaching collar 12 abuts against the baffle plate 11 to hold the same in position. As an additional securing means screw bolts 16 are passed through the collar 12, baffle plate 11, and are terminated in the ring 15. The muzzle brake 13 encloses means (not shown) for receiving the impact of the gases.

Having thus described my invention, I claim:

1. The combination with a gun of a muz-

zle brake adapted for engagement with the muzzle of the gun, an annular flange formed on the muzzle brake, a baffle plate embracing the muzzle brake and seated against the flange, and means for holding the baffle plate securely in position.

2. The combination with a gun of a muz-

zle brake adapted for engagement with the muzzle of the gun, a support formed on the muzzle brake and a baffle plate embracing the muzzle plate and secured to the support.

JOHN B. ROSE.