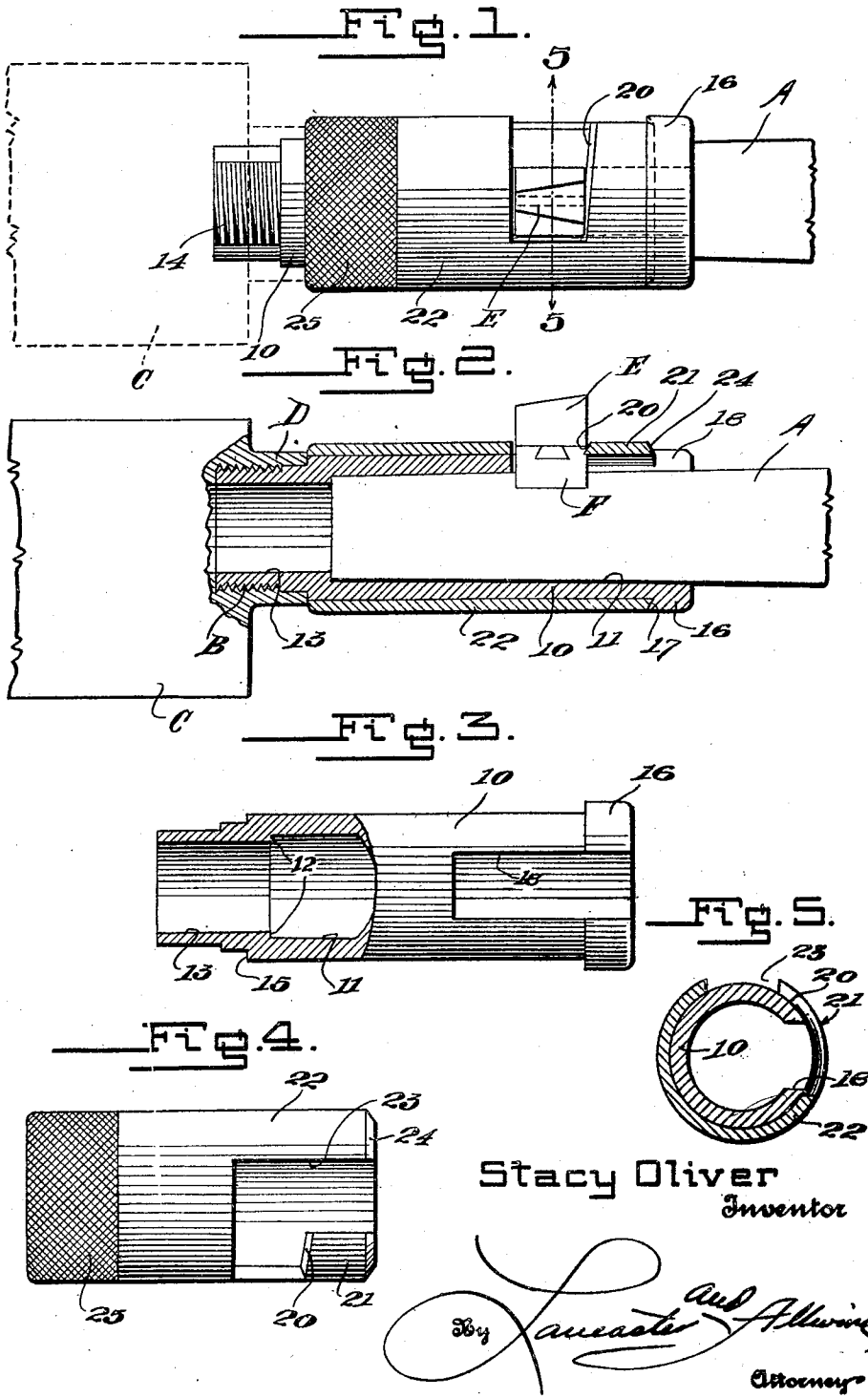


S. OLIVER.
SILENCER COUPLING.
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STACY OLIVER, OF AVALON, PENNSYLVANIA.

SILENCER-COUPLING.

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To all whom it may concern:

Be it known that I, STACY OLIVER, a citizen of the United States, residing at Avalon, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Silencer-Couplings, of which the following is a specification.

This invention relates to a coupling for connecting silencers to the muzzle of gun barrels, and an object of the invention is to provide a coupling by means of which a silencer may be quickly and easily attached to or detached from the muzzle of a gun barrel, and which coupling may be used in connection with any approved type of gun barrel and silencer, without necessitating alterations in either of them, and without the necessity of the employment of tools.

An object of the invention is to provide a coupling as specified, which comprises an inner tubular member drilled or bored to fit the muzzle end of a gun barrel, and provided with an annular shoulder therein, against which the ends of the gun barrel abut, the said sleeve provided with interrupted threads on a portion thereof, to permit the attachment of the silencer thereto by a quarter turn of the silencer, and also to provide an outer sleeve or tubular member provided with a bayonet slot for engaging over the forward sight of the gun and having a tongue, the edges of which are beveled, one of which beveled edges is adapted to engage the face of the fore sight structure, while the other beveled edge engages beneath the beveled edge of an annular enlargement upon the inner sleeve or tubular member, for securely connecting the inner sleeve or tubular member with the annular internal shoulder thereof abutting the end of the gun barrel.

Other objects of the invention will appear in the following detailed description taken in connection with the accompanying drawing, forming a part of this specification, and in which drawing:

Figure 1 is a top plan of the improved silencer coupling.

Fig. 2 is a longitudinal section through the silencer coupling.

Fig. 3 is a top plan partly in section of the inner tubular member or sleeve of the silencer coupling.

Fig. 4 is a top plan of the outer sleeve of the silencer coupling, and

Fig. 5 is a cross section through the silencer coupling taken on the line 5—5 of Fig. 1.

Referring more particularly to the drawings, wherein like characters indicate like and corresponding parts throughout the several views, the improved silencer coupling comprises a sleeve 10, which is bored or drilled to fit about the muzzle end of a gun barrel A, and the gun barrel fitting bore 11 of the sleeve terminates in an annular shoulder 12, against which the end of the gun barrel A abuts when the coupling is properly attached thereto. The portion 13 of the bore of the sleeve 10 is smaller in diameter than the gun barrel fitting portion 11 thereof, and the exterior diameter of the sleeve is also reduced, outwardly of the shoulder 12, this reduced portion being provided with external interrupted threads 14 which are adapted to engage with the attaching internal threads B of a silencer C of approved construction. These threads 14 are cut similar to the threads upon the breech block of cannons or ordnance so as to permit connection of the silencer C to the sleeve 10 by a quarter turn of the former. The annular shoulder 15 formed upon the exterior of the sleeve 10 provides an abutment against which the end of the attaching sleeve D of the muffler C engages, as clearly shown in Fig. 2 of the drawings. The sleeve 10 is provided with an annular enlargement 16 on its end opposite the threaded end, which has its edge facing the threaded end undercut or beveled as clearly shown at 17, in Fig. 2 of the drawings, and the sleeve is further provided with a longitudinally extending slot 18, opening out through the end upon which the enlargement 16 is formed, the said slot being cut therein to permit the sleeve 10 to be slipped over the muzzle end of the gun barrel A, without the removal of the sight E, which sight is constructed in the usual manner including the base end and sighting head. The slot 18 is preferably made of such length, that the inner end thereof will be free from engagement with the base end of the sight E when the coupling is properly attached to the gun barrel A, the end of the muzzle of the gun barrel being forced into engagement with the annular shoulder 12 by the action of the beveled angled edge 20, against the base end of the sight E. This beveled head 20 is formed upon the inner end of a tongue 21, formed on one end of the

outer sleeve 22 of the coupling structure, by the bayonet slot 23, which is formed in this outer sleeve 22. The end of the sleeve 22 through which the bayonet slot 23 opens is beveled as shown at 24, for fitting in the recess formed by the undercut beveling of the forward edge of the annular enlargement 16, when the sleeve 22 is mounted about the sleeve 10.

10 In assembling the coupling structure and mounting it upon the muzzle end of the gun barrel A, the inner sleeve 10 is first slipped over the muzzle end of the gun barrel, the outer sleeve 22 is then slipped longitudinally over the inner sleeve 10, with the straight portion of the bayonet slot 23 extending along the sight E, of the gun barrel, and when the outer sleeve 22 has been moved, until the beveled edge 24 engages the beveled edge 17, the outer sleeve 22 is rotated, which will force the angled side 20 of the tongue 21 into biting engagement with the base F of the sight E, and the pressure created by the engagement of this angled edge 20 against the base F and the beveled edge 24 against the beveled surface 17 will force the sleeve 10 over the gun barrel so that the muzzle end of the barrel will be clamped tightly against the internal annular shoulder 12. The outer surface of the sleeve 22 at the end opposite that through which the bayonet slot 23 enters, may be knurled, or otherwise roughened as shown at 25. After the coupling structure is properly mounted upon the muzzle end of the gun barrel A, the silencer C is connected thereto by mounting the threaded sleeve B thereof over the threaded portion of the sleeve 10, and when the silencer is rotated a quarter turn, the internal thread of the attaching sleeve thereof will mesh with the interrupted thread 14, for securely connecting the silencer C to the coupling structure and consequently to the gun barrel A.

45 Changes in details may be made without departing from the spirit of this invention, but;

I claim:

1. In a silencer coupling, the combination, 50 of an inner sleeve bored for a part of its length to fit the muzzle end of a gun barrel, an annular shoulder formed at the outer terminal of the gun barrel fitting bore, an outer sleeve rotatably mounted upon the inner sleeve, having a beveled edge adapted to engage the fore sight of a gun to force the muzzle end thereof into engagement with said annular shoulder.

2. In a silencer coupling, the combination, 60 of an inner sleeve bored for a part of its length to fit the muzzle end of a gun barrel, an annular shoulder formed at the outer terminal of the gun barrel fitting bore, an outer sleeve rotatably mounted upon said inner sleeve, a tongue formed upon said

outer sleeve and provided with an angled beveled edge adapted to engage the fore sight of a gun to force the muzzle end of the barrel thereof into engagement with said annular shoulder.

3. In a silencer coupling, the combination with a gun barrel having a fore sight thereon, of an inner sleeve bored for a part of its length to fit the muzzle of the gun barrel, an annular shoulder formed at the outer terminal of the gun barrel fitting bore, said sleeve provided with a slotted portion opening out from one end thereof, and adapted to engage about said gun sight, an outer sleeve slidably and rotatably mounted upon said inner sleeve, an abutment on the inner sleeve for limiting the sliding movement of the outer sleeve thereover, and means carried by said outer sleeve for engagement against the gun sight to force the muzzle end of the gun barrel into engagement with said annular shoulder.

4. In a silencer coupling, the combination with a gun barrel having a fore sight thereon, of an inner sleeve bored for a part of its length to fit the muzzle of the gun barrel, an annular shoulder formed at the outer terminal of the gun barrel fitting bore, said sleeve provided with a slotted portion opening out from one end thereof, and adapted to engage about said gun sight, an outer sleeve slidably and rotatably mounted upon said inner sleeve, an abutment on the inner sleeve for limiting the sliding movement of the outer sleeve thereover, means carried by said outer sleeve for engagement against the gun sight to force the muzzle end of the gun barrel into engagement with said annular shoulder, the portion of said inner sleeve outwardly of said annular shoulder being reduced in diameter, and interrupted screw threads upon the exterior of a part of said reduced portions.

5. In a silencer coupling, the combination with a gun barrel having a fore sight, of an inner sleeve bored for a part of its length to fit the muzzle end of the gun barrel, an annular shoulder formed at the outer terminal of the gun barrel fitting bore, said inner sleeve provided with a longitudinally extending recess adapted to receive said gun sight therein, an outer sleeve rotatably mounted upon said inner sleeve, said outer sleeve provided with a bayonet slot to receive said sight therein, the inner edge of the tongue formed by said bayonet slot being angled and beveled, for biting engagement with the gun sight to force the annular shoulder into firm engagement with the muzzle end of the gun barrel.

6. In a silencer coupling, the combination with a gun barrel having a fore sight, of an inner sleeve bored for a part of its length to fit the muzzle end of the gun barrel, an annular shoulder formed at the outer terminal of the gun barrel fitting bore, said inner sleeve provided with a longitudinally extending recess adapted to receive said gun sight therein, an outer sleeve rotatably mounted upon said inner sleeve, said outer sleeve provided with a bayonet slot to receive said sight therein, the inner edge of the tongue formed by said bayonet slot being angled and beveled, for biting engagement with the gun sight to force the annular shoulder into firm engagement with the muzzle end of the gun barrel.

nal of the gun barrel fitting bore, said inner sleeve provided with a longitudinally extending recess adapted to receive said gun sight therein, an outer sleeve rotatably mounted upon said inner sleeve, said outer sleeve provided with a bayonet slot to receive said sight therein, the inner edge of the tongue formed by said bayonet slot being angled and beveled, for biting engagement with the gun sight to force the annular shoulder into firm engagement with the muzzle end of the gun barrel, the portion of said inner sleeve outwardly of said annular shoulder being reduced in diameter, and in-

errupted threads upon a portion of said reduced end of the sleeve.

7. The combination with a gun, having a fore sight, of an inner sleeve bored to fit over the muzzle end of the gun, and having an annular shoulder therein to fit against the muzzle, an outer sleeve upon the inner sleeve and having a bayonet slot therein, said bayonet slot provided with an angular beveled edge for biting engagement with the fore sight upon movement of the same upon the gun barrel for maintaining the sleeves tightly thereupon.

STACY OLIVER.