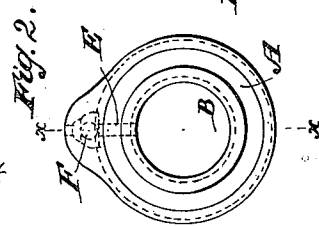
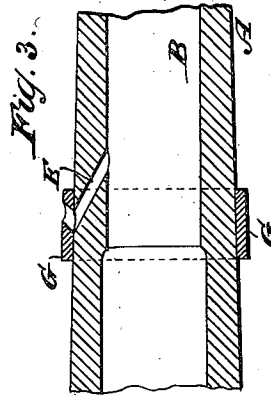
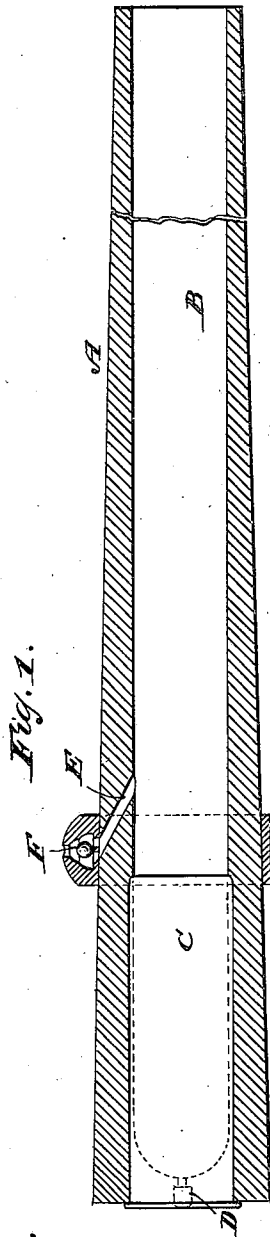


(No Model.)

H. A. KINGSLAND & W. P. SANGER.
GUN BARREL.

No. 513,398.

Patented Jan. 23, 1894.



WITNESSES:
Edward Wolff.
William Miller.

INVENTORS:
Hugh A. Kingstand.
Whiting P. Sanger.
BY
Hauff + Hauff
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HUGH A. KINGSLAND, OF BELLEVILLE, AND WHITING P. SANGER, OF EAST ORANGE, NEW JERSEY.

GUN-BARREL.

SPECIFICATION forming part of Letters Patent No. 513,398, dated January 23, 1894.

Application filed March 16, 1893. Serial No. 486,305. (No model.)

To all whom it may concern:

Be it known that we, HUGH A. KINGSLAND, residing at Belleville, and WHITING P. SANGER, residing at East Orange, in the county of Essex and State of New Jersey, citizens of the United States, have invented new and useful Improvements in Firearms, of which the following is a specification.

This invention has for its object to increase the accuracy of fire arms and like articles such for example as ordnance or air guns and the invention consists in the novel features pointed out in the following specification and claims and illustrated in the annexed drawings in which—

Figure 1 is a longitudinal section of a barrel. Fig. 2 is a front elevation of Fig. 1. Fig. 3 is a detail view of a modification.

In the drawings the letter A indicates the barrel or body of the device or fire arm and B is the bore. The charge C is inserted in any suitable manner and is fired by a touch-hole or by a cap or fulminate D according to the nature of the arm or piece.

The barrel or body A is provided with an air inlet E. This air inlet is shown located in front of the charge or cartridge C. The inlet E is made to extend from the outside of the barrel or body A in the direction of the discharge or forward toward the muzzle whereby such inclined inlet will not allow ready escape of pressure in the bore. In case pressure should exist in the bore such pressure can be confined by an inwardly opening valve F which will close to prevent escape of the pressure through opening E.

By experiment we have found the valve F is not essential but it is of advantage as above stated.

In the modification shown in Fig. 3 the outer portion of the inlet E is deflected or turned in a direction different from the main direction of said inlet so that if any pressure should escape through the inlet, as might occur in case no valve is used, such pressure will not travel backward toward the attendant or individual handling the piece. The outer or

deflected branch of the inlet is readily formed in a band or strap G clasp ing the barrel or body.

The valve D is shown in simple form as a ball valve but any suitable well known valve can be used for admitting air while adapted to confine pressure in the bore.

By providing an air inlet we have found that the recoil or movement of the muzzle which is a disturbing element especially in hand pieces such as pistols, shot guns, fowling pieces and the like is prevented, so that accuracy is gained, and the carrying distance is also increased, or in other words, the projectile is driven forward with greater force.

The invention need not be confined to fire arms, as it is manifestly applicable elsewhere as for example in air guns.

What we claim as new, and desire to secure by Letters Patent, is—

1. The barrel or body A provided with an air inlet extending through the barrel or wall of the body from the outside in the direction of the discharge substantially as described.

2. The barrel or body A provided with a touchhole and an air inlet having an inwardly opening valve substantially as described.

3. The barrel or body A provided with an air inlet extending in the direction of the discharge, the outer portion of said inlet being deflected or turned in a different direction from the main direction of said inlet substantially as described.

4. The barrel or body A provided with a strap or band and with an air inlet extending in the direction of the discharge, the outer portion of said inlet being deflected and being formed in said strap or band substantially as described.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

HUGH A. KINGSLAND.
WHITING P. SANGER.

Witnesses:

WM. C. HAUFF,
E. F. KASTENHUBER.