

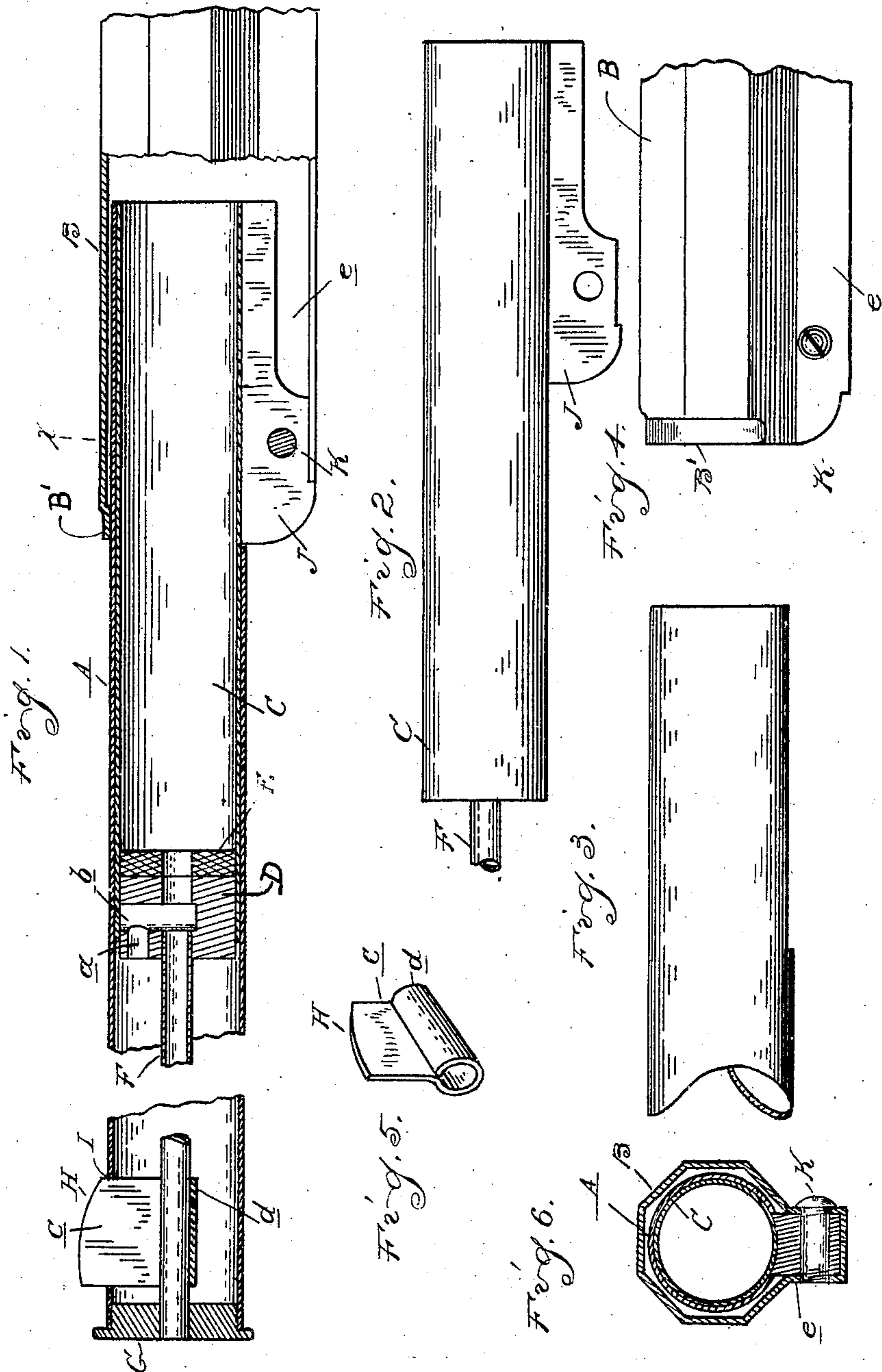
No. 843,990.

PATENTED FEB. 12, 1907.

F. F. BENNETT.

AIR GUN.

APPLICATION FILED JUNE 2, 1906.



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# UNITED STATES PATENT OFFICE.

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## AIR-GUN.

No. 843,990.

Specification of Letters Patent.

Patented Feb. 12, 1907.

Application filed June 2, 1906. Serial No. 319,861.

*To all whom it may concern:*

Be it known that I, FREDERICK F. BENNETT, a citizen of the United States of America, residing at Plymouth, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Air-Guns, of which the following is a specification, reference being had therein to the accompanying drawings.

It is the object of the invention to obtain a construction of air-gun which is substantially the same in external appearance as a powder-gun. To this end the false bottom is made to conform in shape and size to the true barrel of a powder-gun and is given an oxidized steel finish. Such a finish can only be produced by heating the metal of the barrel to a degree that would be detrimental if solder were used in securing the parts, and consequently the usual method of securing the piston-abutment directly in the false barrel by brazing or solder cannot be employed.

To accomplish the purpose above referred to, I have devised a novel construction of gun in which the piston-abutment is anchored within the false barrel without direct attachment thereto. Furthermore, the air-compression cylinder is anchored within the false barrel and is preferably permanently attached to the true barrel.

The invention consists in these features of construction and, further, in certain other features, as more fully hereinafter set forth.

In the drawings, Figure 1 is a longitudinal central section through the false barrel. Figs. 2, 3, and 4 are elevations, respectively, of the air-compression cylinder and the two portions of the false barrel. Fig. 5 is a perspective view of the sight; and Fig. 6 is a cross-section on line *x x*, Fig. 1.

My invention may be applied to any well-known construction of spring air-gun, and the particular character of this actuating mechanism is immaterial to the present invention. The drawings are therefore confined to the illustration of the false and true barrels forward of the point in which the spring and other mechanism is housed. The false barrel or outer casing is preferably formed in two sections A and B. The former or forward section is preferably cylindrical in form and may be formed from seamless steel tubing. The rear section B of the

false barrel is preferably of polygonal shape in imitation of the frame of a powder-gun. Both of these sections are preferably given an oxidized finish, and the forward section A and the rear section B are secured together by clamping.

Within the rear portion of section A is located the piston-abutment D. This is anchored within the barrel independent of any direct attachment thereto, preferably by attaching it to the forward end of an air-compression cylinder C, which is separate from the barrel. The abutment D may be secured to this cylinder by any suitable means, such as brazing or soldering, and is preferably provided with a cushion-washer E, of leather or other compressible material. Where the false barrel is used as a magazine, the abutment D may be channeled, as at *a* and *b*, for the reception of the shot.

F is the true barrel, preferably soldered or otherwise secured to the abutment D and projecting centrally forward within the false barrel A.

G is a cap for the end of the false barrel, which preferably has a threaded engagement therewith and is apertured to receive the end of the true barrel.

H is the forward sight, which is secured in position at the end of the false barrel by forming a slot I therein and providing the sight with a shank *c*, terminating in an eye *d*, which is sleeved about the true barrel. Thus when the true barrel is in position and secured by the cap G the sight H will be locked from displacement.

With the construction described the parts may be assembled by inserting the air-compression cylinder C within the section A of the false barrel and then clamping these parts to the rear section B. To anchor the cylinder, a depending lug J is secured thereto by solder or in any other suitable manner, which lug extends between the parallel sides *e* of the rear section B and is clamped by a screw K, passing through an aperture *f* in said lug.

In order to clamp the section A of the false barrel to the section B, the forward end of the section B is preferably contracted at B' to form, in effect, a split ring merging into the parallel sides *e*, as clearly shown in Fig. 4. Thus the screw K contracts the ring about

the section A, and the latter is firmly held between the ring on the outside and the cylinder C on the inside.

What I claim as my invention is—

- 5 1. In an air-gun, the combination with a false barrel, of a separate air-compression cylinder telescopically engaging said false barrel, and a longitudinal anchoring-lug on said cylinder.
- 10 2. In an air-gun, a false barrel formed in two sections, a separate air-compression cylinder telescopically engaging one section of said false barrel, and a common clamping means for securing said sections and cylinder
- 15 in fixed relationship.
3. In an air-gun, the outer casing formed in two sections, one corresponding in form to the true barrel and the other to the frame of a powder-gun, and a separate air-compres-

sion cylinder inclosed within the forward section of said outer casing at the junction of said sections.

4. In an air-gun, an air-compression cylinder, a true barrel permanently secured thereto, and a false barrel formed in two detachable sections detachably engaging the true barrel and cylinder.
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5. In an air-gun, a sight engaging a closed ended slot in the false barrel and having a shank sleeved upon the true barrel and free from the false barrel.
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In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK F. BENNETT.

Witnesses:

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