No. 827,979. PATENTED AUG. 7, 1906.

T. C. JOHNSON.

TUBULAR MAGAZINE FIREARM.

APPLICATION FILED APR. 21, 1906.

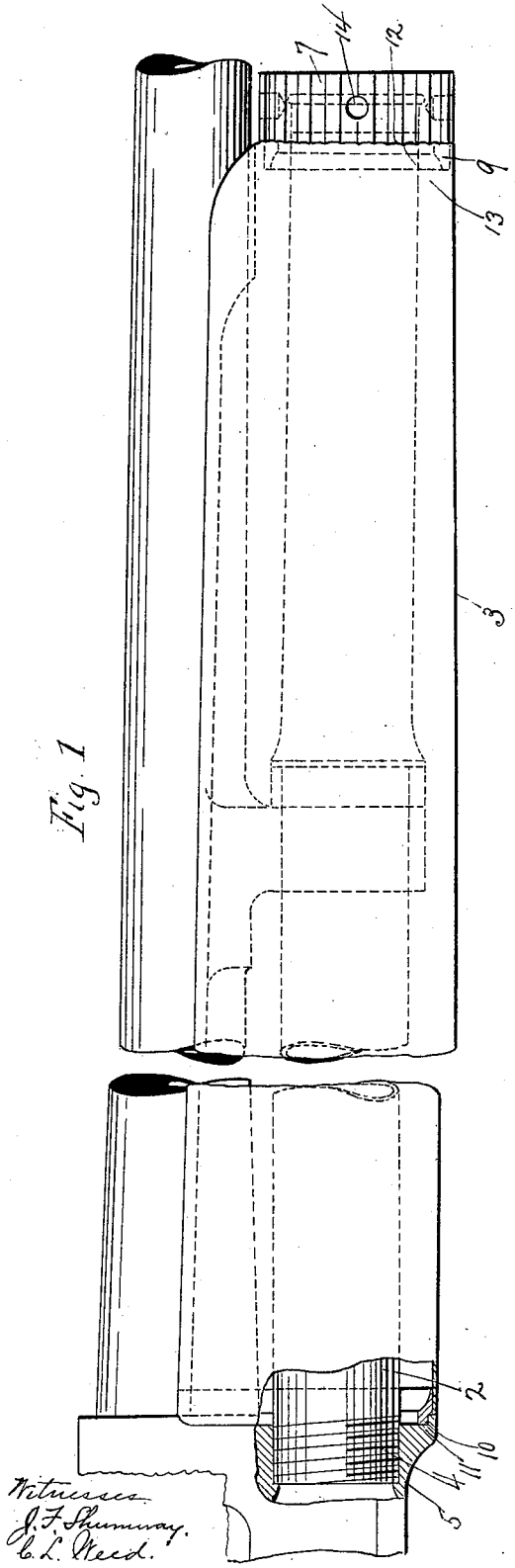

Fig. 1

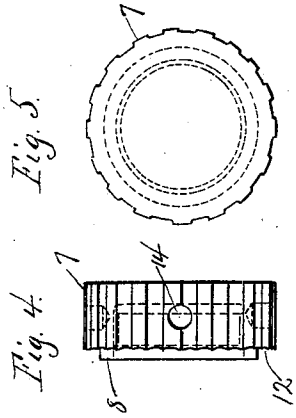

Fig. 4

Fig. 5

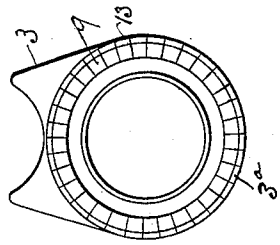

Fig. 3

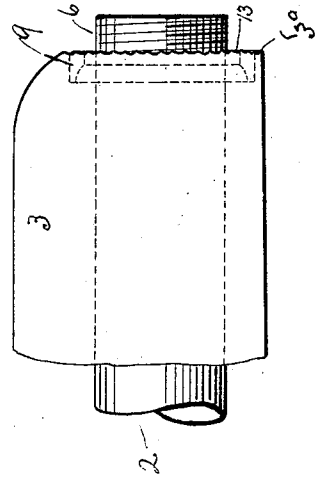

Fig. 2

Witnesses
J. F. Shumway.
C. L. Reed.

Thomas C. Johnson
Inventor
by Seymour & Earle
Atty

UNITED STATES PATENT OFFICE.

THOMAS C. JOHNSON, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO WINCHESTER REPEATING ARMS CO., OF NEW HAVEN, CONNECTICUT, A CORPORATION.

TUBULAR-MAGAZINE FIREARM.

No. 827,979. Specification of Letters Patent. Patented Aug. 7, 1906.

Application filed April 21, 1906. Serial No. 313,012.

To all whom it may concern:

Be it known that I, THOMAS C. JOHNSON, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Tubular-Magazine Firearms; and I do hereby declare the following, when taken in connection with the accompanying drawings and the numerals of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a broken view, partly in side elevation and partly in vertical section, of the forward portion of a firearm embodying my invention; Fig. 2, a broken view in side elevation, showing the forward ends of the fore-arm and magazine, from which latter the fore-arm tip has been removed; Fig. 3, a corresponding detached view, in front elevation, of the fore-arm and magazine; Fig. 4, a detached view, in side elevation, of the fore-arm tip; Fig. 5, a view thereof in front elevation.

My invention relates to an improvement in that class of tubular-magazine firearms in which the magazine is furnished at its front end with a fore-arm tip in the form of a nut, the object being to provide a simple and effective friction-lock for preventing the nut from jarring loose in firing.

With these ends in view my invention consists in a firearm having certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In carrying out my invention as herein shown I employ a tubular magazine 2, passing forward through a sheet-metal fore-arm 3, though such a fore-arm is not essential to the use of my improvement. At its rear end the said magazine is formed in the usual manner with threads 4, adapting it to be rigidly mounted in the gun frame or receiver 5. In this particular construction, as I may say here, it is not designed to remove the magazine itself from the gun frame or receiver 5. At its forward end the magazine is formed with threads 6 for the removable attachment of a fore-arm tip in the form of a nut 7, formed upon its rear face with an annular centering-shoulder 8, adapted to enter a friction lock-collar 9, brazed or otherwise secured in place in the front end of the sheet-metal fore-arm 3, the rear end of which is furnished with a U-shaped tenon 10, projecting rearwardly from it and entering a groove or shallow recess 11 in the front face of the gun frame or receiver 5, all as shown and described in my prior patent, No. 808,375, granted December 26, 1905.

In order to prevent the fore-arm tip 7 from jarring loose and turning under the recoil of the gun in firing, I form upon its rear face a continuous series of shallow notches or undulations 12, which coact with a complementary series of shallow notches or undulations 13, formed upon the outer face of the collar 9, as well as with a series of shallow notches or undulations 3^a, formed at the front end of the fore-arm itself. These notches or undulations 13 and 3^a form a locking-face at the front end of the fore-arm for coaction with the notches or undulations 13, which form a locking-face upon the tip 7. The fore-arm tip is also formed with radial holes 14 for the reception of the pins of a spanner-wrench or other tool to be used for the purpose of screwing the tip upon and unscrewing it from the front end of the magazine. In screwing the tip upon the magazine just before it is fully screwed home the high points of its notches 12 engage with the high points of the notches 13, whereupon the sheet-metal fore-arm yields just enough to permit the nut to be turned enough more to fully interlock the two sets of notches. In unscrewing the tip sufficient power must be applied to spring the fore-arm until the high points of the two sets of notches are fully disengaged.

I claim—

1. In a tubular-magazine firearm, the combination with the frame thereof, of a tubular magazine rigidly mounted therein, a yielding fore-arm, a nut-like fore-arm tip mounted upon the front end of the magazine and constructed to be frictionally interlocked with a locking-face at the front end of the fore-arm which yields to permit the tip to be turned as required.

2. In a tubular-magazine firearm, the combination with the frame thereof, of a tubular magazine rigidly mounted therein, a yielding fore-arm, a nut-like fore-arm tip mounted upon the magazine, and a collar located in the front end of the fore-arm and coacting

with the said tip to form a friction-lock, the fore-arm yielding to permit the tip to be turned as required.

3. In a tubular-magazine firearm, the combination with the frame thereof, of a tubular magazine rigidly mounted therein, a yielding fore-arm, a nut-like fore-arm tip mounted upon the front end of the magazine and having its rear face formed with notches, and a collar located in the front end of the fore-arm and formed with complementary notches which interlock with those of the tip for preventing the tip from turning loose in using the gun, the fore-arm yielding to permit the tip to be turned as required.

4. In a tubular-magazine firearm, the combination with the frame thereof, of a tubular magazine rigidly mounted therein, a yielding sheet-metal fore-arm, a nut-like fore-arm tip mounted upon the front end of the magazine and having its rear face formed with a series of notches, and a collar mounted in the front end of the fore-arm and having its front face formed with complementary notches which interlock with those of the tip for preventing the same from turning in using the gun, the fore-arm yielding to permit the high points of the notches to ride over each other in screwing the tip home and in starting to unscrew it.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

THOMAS C. JOHNSON.

Witnesses:
HERBERT F. BEEBE,
DANIEL H. VEADER.