F. F. BURTON.

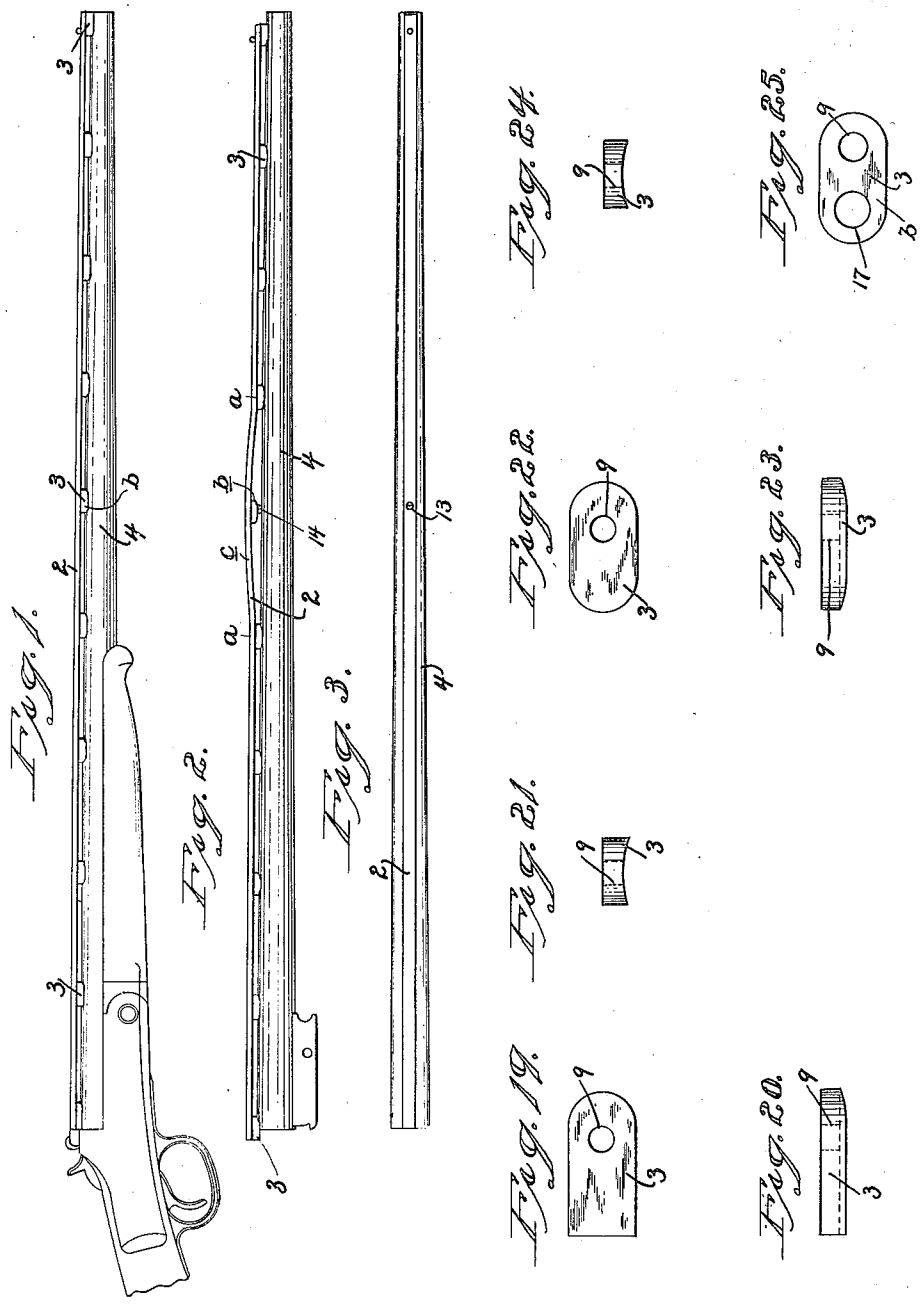
VENTILATED SIGHT RIB FOR SINGLE BARREL FIREARMS.

APPLICATION FILED AUG. 16, 1919.

1,323,151.

Patented Nov. 25, 1919.

3 SHEETS—SHEET 1.



Inventor
Frank F. Burton
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Fig. 4.

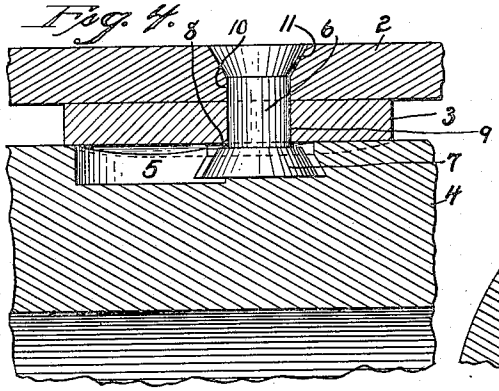


Fig. 5.

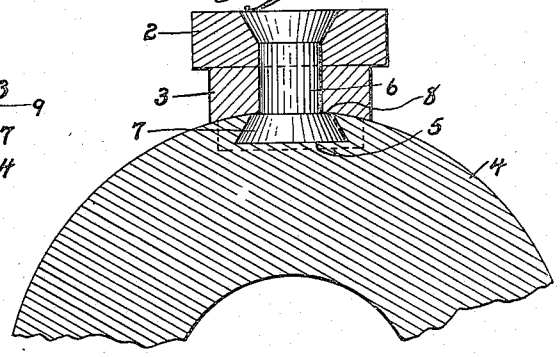


Fig. 6.

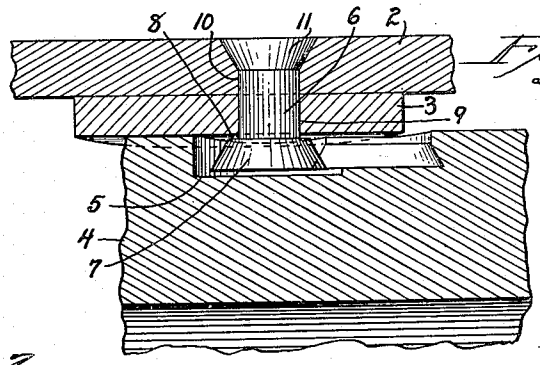


Fig. 7.

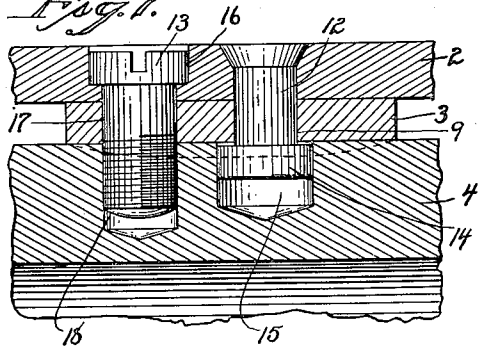


Fig. 8.

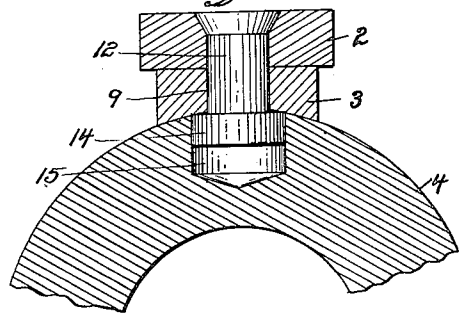
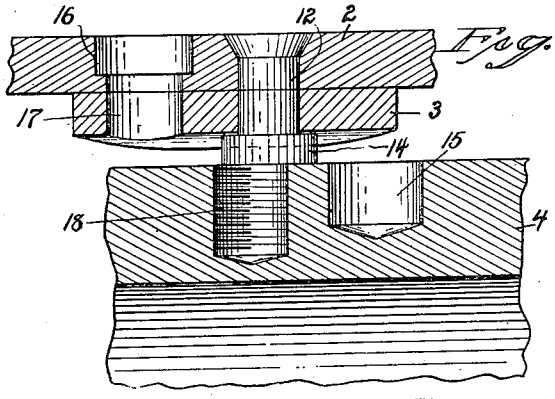


Fig. 9.



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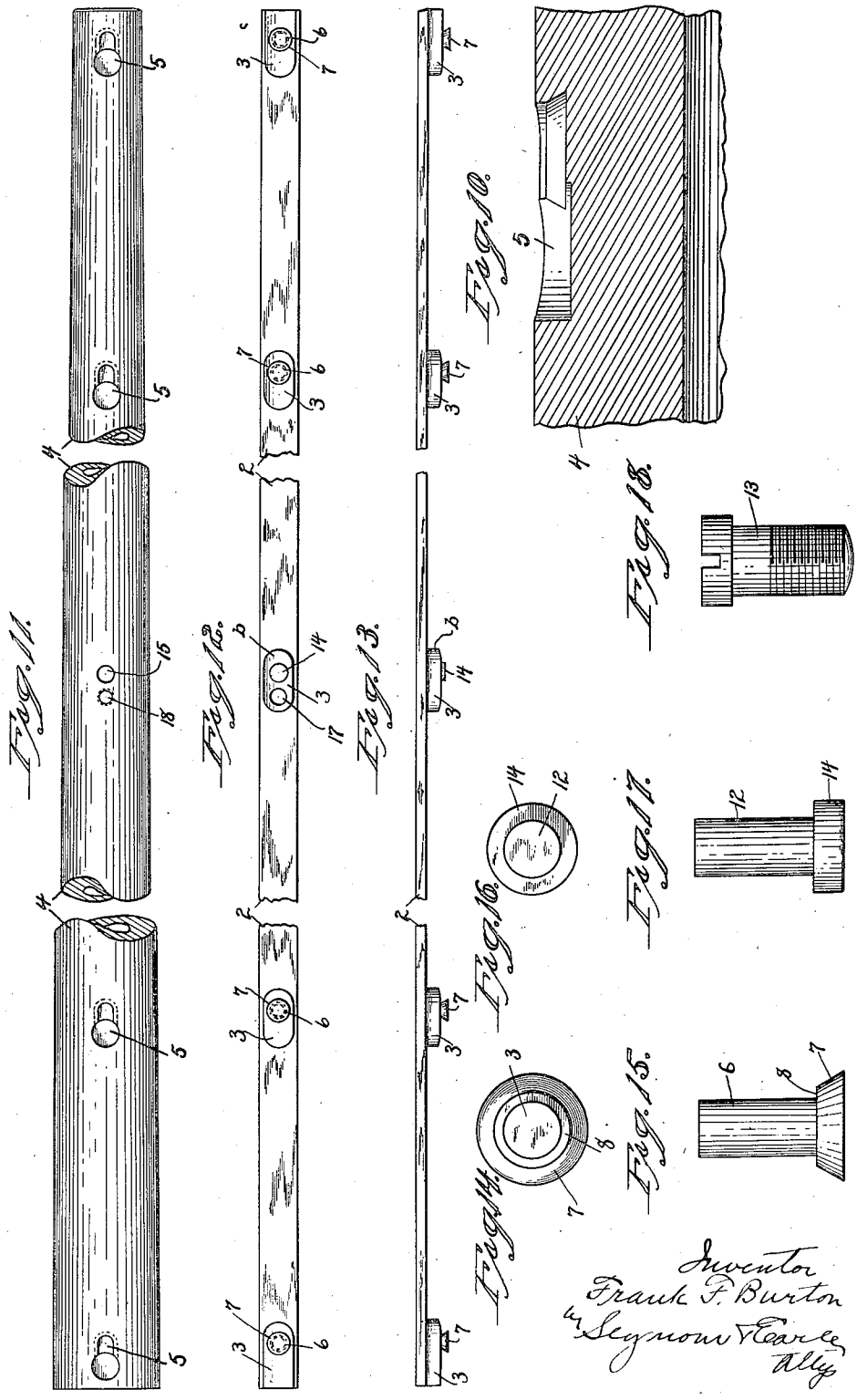

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UNITED STATES PATENT OFFICE.

FRANK F. BURTON, OF MOUNT CARMEL, CONNECTICUT, ASSIGNOR TO WINCHESTER REPEATING ARMS CO., OF NEW HAVEN, CONNECTICUT, A CORPORATION.

VENTILATED SIGHT-RIB FOR SINGLE-BARREL FIREARMS.

1,323,151. Specification of Letters Patent. Patented Nov. 25, 1919.

Application filed August 16, 1919. Serial No. 318,010.

To all whom it may concern:

Be it known that I, FRANK F. BURTON, a citizen of the United States, residing at Mount Carmel, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Ventilated Sight-Ribs for Single-Barrel Firearms; and I do hereby declare the following, when taken in connection with the accompanying drawings and the characters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this application, and represent, in—

Figure 1 a broken view in side elevation of a single-barrel firearm constructed in accordance with my invention.

Fig. 2 a detached view in side elevation of the barrel and sight-rib, the latter being shown in process of being mounted or demounted as the case may be.

Fig. 3 a detached plan view of the barrel and rib.

Fig. 4 an enlarged broken view in vertical longitudinal section, showing one of the sliding point intermediate spacing-block connections of the rib with the barrel.

Fig. 5 a corresponding view in vertical transverse section.

Fig. 6 a view corresponding to Fig. 4, but showing the dovetail rivet of the spacing-block entered into the rear end of the complementary keyhole recess in the gun-barrel, preparatory to moving the rib forward to engage the head of the rivet with the side walls of the undercut forward end of the slot.

Fig. 7 an enlarged detached broken view in vertical longitudinal section, showing the spacing-block chosen for rigidly connecting the rib at one point only with the barrel.

Fig. 8 a corresponding view thereof in transverse section.

Fig. 9 a broken detail view corresponding to Fig. 7, showing the locating-stud as about to enter the locating-hole formed for its reception in the upper face of the barrel.

Fig. 10 an enlarged broken vertical longitudinal sectional view of the barrel showing one of the undercut keyhole recesses therein.

Fig. 11 a detached broken plan view of the barrel showing the keyhole recess formed therein.

Fig. 12 a corresponding broken underside view of the sight-rib.

Fig. 13 a corresponding broken edge view of the sight-rib.

Fig. 14 a detached plan view of one of the dovetail rivets.

Fig. 15 a side view thereof.

Fig. 16 a detached plan view of the locating-stud.

Fig. 17 a detached plan view thereof in side elevation.

Fig. 18 a detached view in side elevation of the fastening-screw.

Fig. 19 a detached plan view of the rearmost spacing-block.

Fig. 20 an edge view thereof.

Fig. 21 a front view thereof.

Fig. 22 a detached plan view of one of the intermediate spacing-blocks.

Fig. 23 an edge view thereof.

Fig. 24 a front view thereof.

Fig. 25 a detached plan view of the special spacing-block used for the rigid connection of the rib with the barrel between the ends thereof.

My invention relates to an improvement in that class of ventilated sight-ribs for single-barrel firearms in which the rib is slidably attached to the barrel for relative longitudinal movement with respect thereto, except at one point between the ends of the barrel where the rib and the barrel are rigidly secured together, the object of my present invention being to simplify and cheapen devices of the character specified.

With these ends in view, my invention consists in 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 sight-rib 2 provided at regularly spaced points upon its lower face with a series of spacing-blocks 3 having flat upper faces and concave lower faces, the latter conforming in curvature to the curvature of the barrel 4, which is formed in its upper face with a series of dovetail keyhole recesses 5, the parallel side and end walls of the narrow forward ends of which are undercut. The spacing-blocks 3 are fastened to the lower face of the rib 2 by means of dovetail rivets 6, so characterized on account of having beveled circular heads

7 at their lower ends, these heads being enough larger in diameter than the shanks of the rivets to form shoulders 8 which bear upon the lower faces of the blocks from which the said heads project or offset. The said rivets are passed upwardly through rivet-holes 9 in the blocks 3 and thence upward through rivet-holes 10 in the rib 2, the upper ends of the holes 10 being counterbored as at 11 to permit the upper ends of the shanks of the rivets to be swaged down flush with the upper face of the rib.

In mounting the rib upon the barrel, the projecting heads 7 of the rivets are entered into the enlarged rear ends of the dovetail recesses 5, after which the rib is moved longitudinally forward, whereby the said heads are entered into the forward ends of the said recesses for engagement with the parallel undercut side walls thereof, and whereby the rib is fastened to the barrel so as to be free to have relative longitudinal movement with respect thereto due to expansion or contraction, while held against vertical or lateral movement, or displacement.

For rigidly connecting the rib and barrel at a point between the ends of the latter, I employ a locating-stud 12 and a fastening-screw 13, the former passing upward through the rivet-hole 9 of one of the spacing-blocks 3 as shown in Figs. 7, 8 and 9, and securing this particular block to the lower face of the rib. This particular rivet, instead of having a beveled or undercut head like the other rivets, is formed with a cylindrical head 14 which enters a cylindrical hole 15 formed in the top of the gun barrel, as best shown in Fig. 9. The fastening-screw 13 passes downward through a hole 16 in the rib and through a hole 17 in the block into a threaded-hole 18 formed in the gun-barrel at a point directly in the rear of the hole 15 therein, as shown in Fig. 11, the holes 15 and 18 just described, replacing one of the undercut keyhole recesses in the barrel. In mounting the rib upon the barrel, the beveled heads 7 of the dovetail rivets 6 are introduced into the rear ends of the heyhole recesses in the barrel, as already described. At this time the locating stud 12 will rest upon the barrel as shown in Figs. 2 and 9. Now as the rib is shoved forward to enter the heads of the rivets into the forward ends of the recesses, downward pressure is applied to the rib at the points *a*—*a* thereupon, (Fig. 2) on opposite sides of the special spacing-block *b*, causing the rib to be bowed or buckled as at *c*. As the rib moves forward under these conditions, the head 14 of the locating-stud 12 will ride upon the top of the barrel until it snaps into the locating-hole 15. The holes 16, 17 and 18 are now in registration and ready for the reception of the fastening-screw 13 from which the stud 12 takes the shock of recoil.

I claim:—

1. A single barrel firearm having its barrel formed in its upper face with a spaced series of undercut recesses, a sight-rib, a series of spacing-blocks fastened to the under face of the sight-rib by dovetail rivets coacting with the said recesses for connecting the rib and barrel for their relative longitudinal movement, and a locating-stud and a fastening-screw passing through one of the said spacing-blocks for rigidly connecting the rib and the barrel at a point between the ends of the latter.

2. A single barrel firearm having its barrel formed in its upper face with a spaced series of undercut keyhole recesses, a sight-rib, a series of spacing-blocks fastened to the under face of the sight-rib by dovetail rivets for the relative longitudinal movement of the rib and barrel, and a locating-stud and a fastening-screw for rigidly securing the barrel and rib together at a point between the ends of the latter, the said stud fastening one of the said blocks to the said rib and formed at its lower end with a cylindrical head entering a cylindrical hole in the barrel and the said screw passing downward through the rib and the said spacing-block and entering a threaded hole located in the barrel at a point near the said cylindrical hole.

3. A single barrel firearm having a barrel, a sight-rib removably mounted thereupon, and means for rigidly connecting the sight-rib and barrel at a point between the ends of the latter, the said means comprising a spacing-block, a locating-stud fastening the said block to the said rib and a fastening-screw passing downward through the rib and block into the barrel and located adjacent to the said stud.

4. A single barrel firearm having a barrel, a sight-rib removably mounted thereupon by a series of spaced attachments permitting longitudinal relative motion of the rib and barrel, and means for preventing such relative longitudinal motion at one point between the ends of the said barrel, the said means comprising a stud rigidly attached to the underside of the said rib and entering a corresponding recess in the upper surface of the said barrel and retained therein by the spring tension of the said rib.

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

FRANK F. BURTON.

Witnesses:
FREDERIC C. EARLE,
CLARA L. WEED.