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Draftman

C. E. BLIZARD.

VENTILATED SIGHT RIB FOR SINGLE BARREL FIREARMS.

APPLICATION FILED AUG. 15, 1919.

1,329,361.

Patented Feb. 3, 1920.

3 SHEETS—SHEET 1.

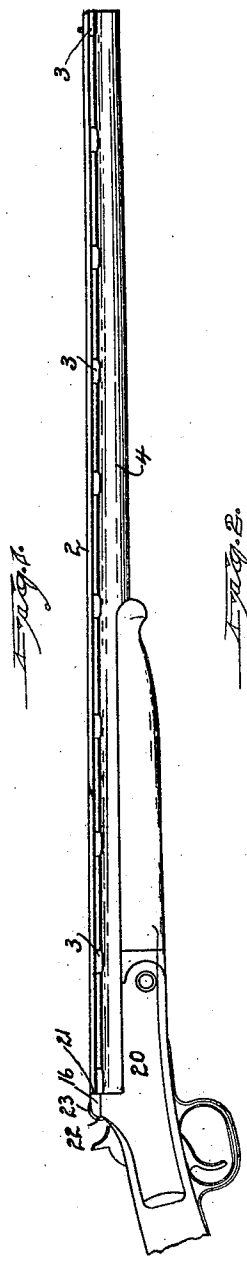


Fig. A.

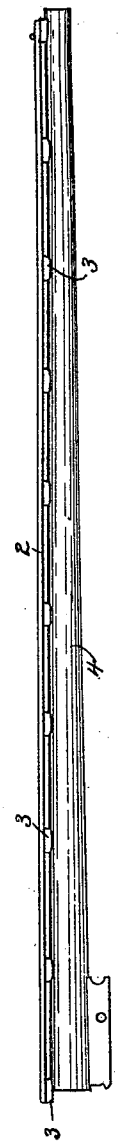


Fig. B.



Fig. C.

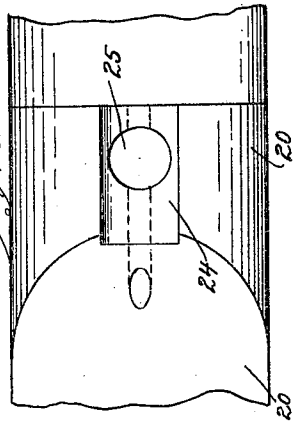


Fig. AB.

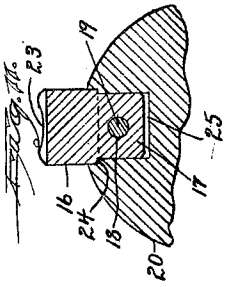


Fig. AC.

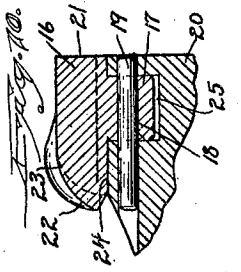


Fig. AD.

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Fig. 4.

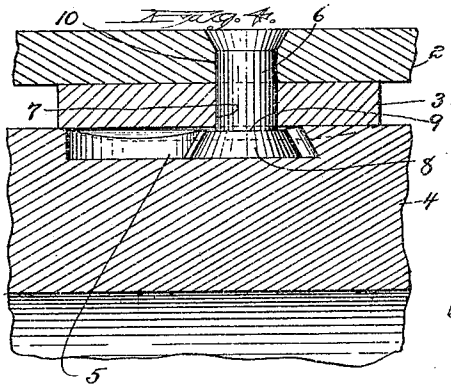


Fig. 5.

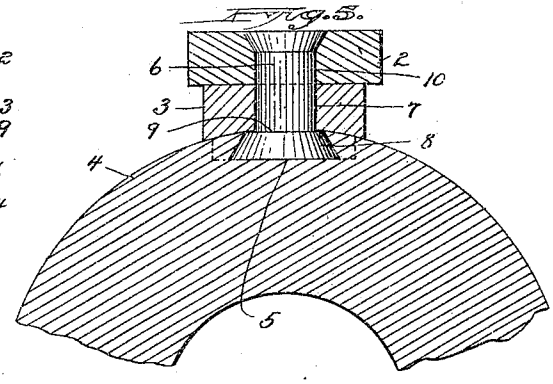


Fig. 6.

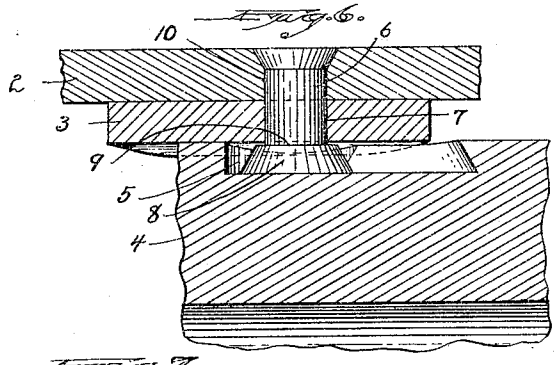


Fig. 7.

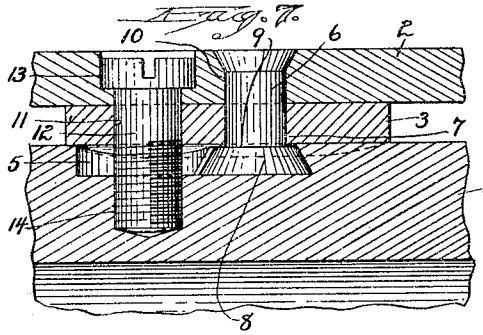


Fig. 8.

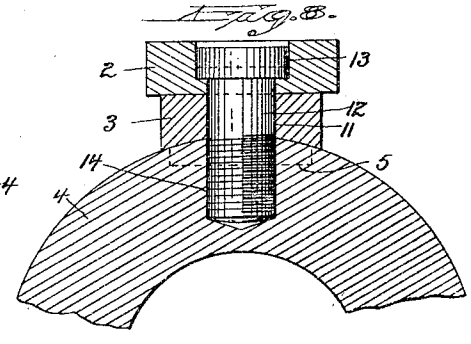
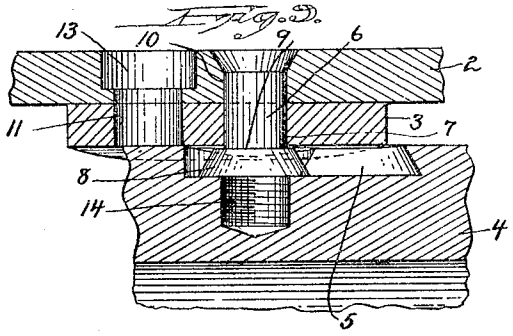


Fig. 9.



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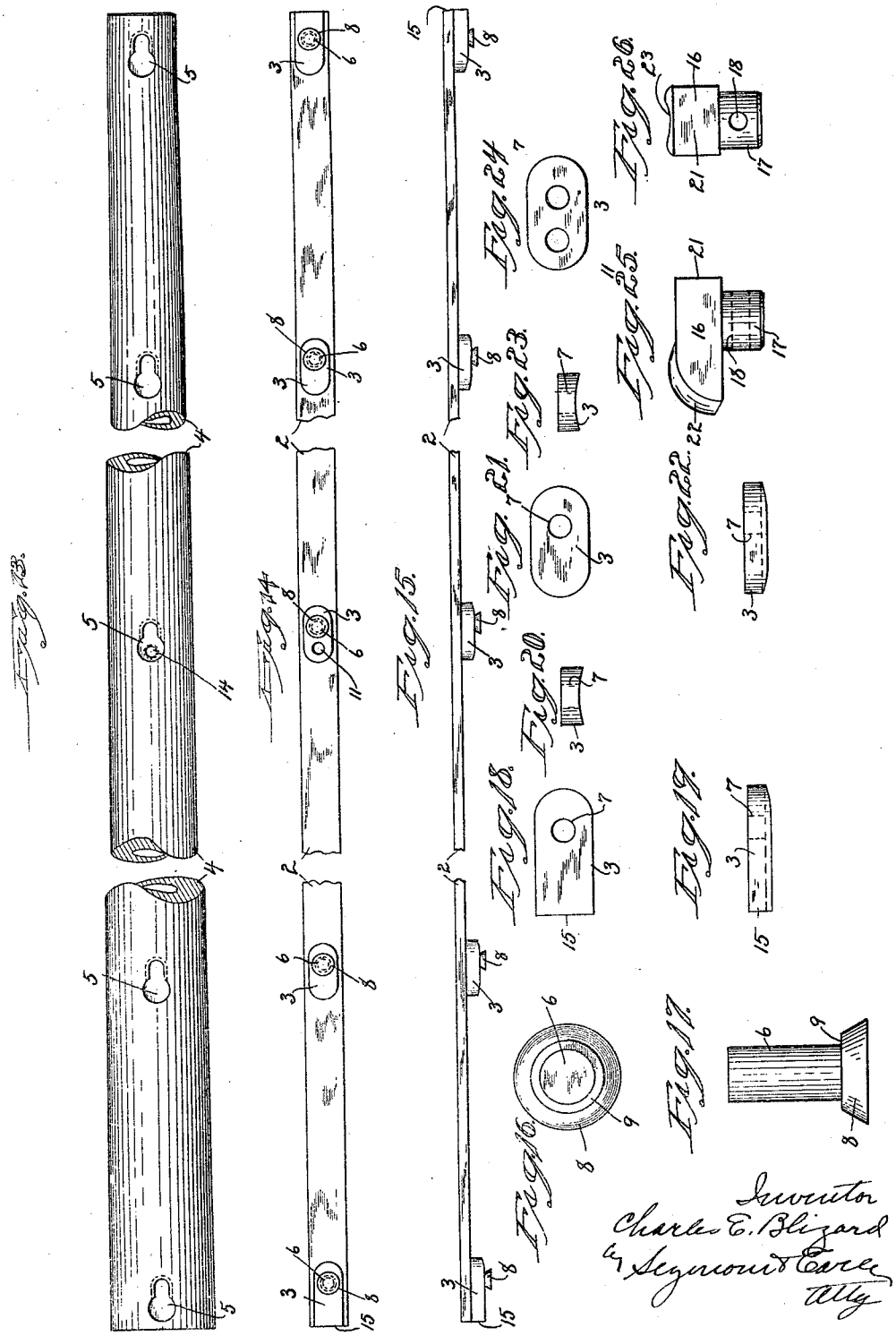
VENTILATED SIGHT RIB FOR SINGLE BARREL FIREARMS.

APPLICATION FILED AUG. 15, 1919.

1,329,361.

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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

CHARLES E. BLIZARD, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO WINCHESTER REPEATING ARMS CO., OF NEW HAVEN, CONNECTICUT, A CORPORATION.

VENTILATED SIGHT-RIB FOR SINGLE-BARREL FIREARMS.

1,329,361. Specification of Letters Patent. Patented Feb. 3, 1920.

Application filed August 15, 1919. Serial No. 317,705.

To all whom it may concern:

Be it known that I, CHARLES E. BLIZARD, 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 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 right hand side elevation of a gun provided with my improved ventilated sight-rib.

Fig. 2 a detached view in side elevation of the barrel and rib, the latter being shown just prior to being pushed forward into its final position.

Fig. 3 a detached plan view of the barrel with the rib in its final position.

Fig. 4 an enlarged broken view in vertical longitudinal section, showing one of the sliding-point 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 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 recess.

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

Fig. 8 a corresponding view thereof in transverse section.

Fig. 9 a view corresponding to Fig. 7, except as showing the rib before it is pushed forward to interlock the head of the dovetail rivet with the undercut side walls of the forward end of the recess and to bring the screw carried by the rib into registration with the screw-hole in the barrel.

Fig. 10 a broken detailed view in vertical longitudinal section, showing the application of the sight-rib extension to the forward end of the receiver.

Fig. 11 a view thereof in transverse section.

Fig. 12 a broken plan view of the receiver showing the slot formed therein for the reception of the sight-rib extension.

Fig. 13 a detached broken plan view of the barrel, showing the keyhole-recesses formed therein.

Fig. 14 a corresponding broken underside view of the sight-rib.

Fig. 15 a corresponding broken edge view of the sight-rib.

Fig. 16 a detached plan view of one of the dovetail rivets.

Fig. 17 a side view thereof.

Fig. 18 a detached plan view of the square-ended rearmost spacing-block.

Fig. 19 an edge view thereof.

Fig. 20 a front view thereof.

Fig. 21 a detached plan view of one of the intermediate spacing-blocks.

Fig. 22 an edge view thereof.

Fig. 23 a front view thereof.

Fig. 24 a detached plan view of the spacing-block used at the point of the rigid connection of the rib with the barrel.

Fig. 25 a detached view in side elevation of the sight-rib extension.

Fig. 26 a front view thereof.

My invention relates to an improvement in that class of ventilated sight-ribs for single-barrel firearms in which the rib is rigidly attached to the top of the barrel at one point only between the ends thereof, and so attached thereto at other points as to permit of relative longitudinal movement between the barrel and rib, the object being to provide a simple, durable and effective device of the character described, with particular reference to cheapness of construction.

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.

As herein shown, the sight-rib 2 consists of a suitable strip of metal provided upon its lower face at regularly spaced intervals with a series of spacing-blocks 3 having flat upper faces, rounded ends (except as specified), and concave lower faces conforming to the curvature of the gun-barrel 4, which is formed upon its upper face with a series

of shallow correspondingly spaced keyhole-recesses 5. The said spacing-blocks 3 are permanently fastened to the lower face of the rib 2 by means of dovetail rivets 6 for the reception of which each block is formed with a rivet-hole 7. The said rivets are characterized as "dovetail" rivets on account of being formed at their lower ends with circular, beveled or dovetail heads 8 forming shoulders 9 which are brought to bear upon the under faces of the spacing-blocks when the shanks of the rivets are passed upwardly through the rivet-holes 7 thereof. For the reception of the said rivets the sight-rib is formed with rivet-holes 10 the upper ends of which are counterbored to permit the swaged upper ends of the shanks to be set down flush with the upper face of the rib as shown in Figs. 4 to 9 inclusive.

As thus constructed, the beveled heads of the rivets project from the lower faces of the spacing-blocks, which hold the lower face of the rib away from the gun-barrel and thus secure the ventilation thereof. In this manner the spacing-blocks are rigidly secured to the rib by the means employed to connect the rib with the barrel, *i. e.*, the dovetail rivets.

For rigidly attaching the rib to the top of the barrel at one point only between the ends of the latter, one of the spacing-blocks 3, as illustrated in Fig. 24, is formed with a hole 11 for the reception of a screw 12 passed downward through a counterbored hole 13 in the sight-rib 2 into a threaded hole 14 leading out of the bottom of the rear end of one of the keyhole-recesses 5 in the barrel, as shown in Fig. 13, this recess being shorter than the other recesses so as to utilize the rivet of this particular spacing-block as a recoil abutment, as it were, and so remove the shock of recoil from the screw 12. The foremost and rearmost of the spacing-blocks 3 are formed with square ends 15 for reasons of appearance.

With my improved sight-rib, above described, I prefer to employ a sight-rib extension 16 which has a depending stud 17 formed with a transverse hole 18 receiving a pin 19, by means of which the extension is fastened into the receiver 20. The said extension is oblong in shape and has a square forward end 21, a round rear end 22, and a concaved upper face 23, and is alined with the rib 2 when the gun is assembled, as shown in Fig. 1. For the reception of the extension, the receiver is formed with a forwardly opening rectangular slot 24 from the bottom of which a circular hole 25 leads for the reception of the stud 17 which is fastened to the receiver by the pin 19 aforesaid.

In mounting the rib upon the barrel, the dovetail rivet-heads 8 are first entered into the circular rear ends of the dovetail keyhole recesses 5 in the barrel, after which, by a forward movement of the rib, the said heads 8 of the rivets are engaged with the parallel side walls of the undercut forward ends of the recesses, whereby relative longitudinal movement between the rib and the barrel is permitted, but their relative movement in other directions prevented. The screw 12 is now passed downward through the hole 13 in the rib, through the hole 11 in the spacing-block of Fig. 24, and then into the threaded hole 14 in the gun-barrel, whereby the rib is rigidly secured to the barrel at this point, which is between the ends of the barrel which are thus left free to expand and contract irrespective of the rib, thus prevented from being buckled and distorted.

I do not in this application broadly claim a ventilated sight-rib attached to the top of the barel of a single-barrel gun at one point only between the ends of the barrel and so attached thereto at other points as to permit freedom of relative longitudinal movement, since that is the subject matter of my copending application filed April 26, 1919, Serial No. 292,939, my present invention being characterized by the employment of spacing-blocks fastened to the lower face of the sight-rib by means of dovetail rivets coacting with dovetail keyhole recesses in the top of the gun-barrel.

I claim:—

1. A single-barrel firearm, having its barrel formed directly in its upper face with a spaced series of dovetail recesses, a sight-rib, and a series of spacing-blocks fastened to the lower face of the sight-rib by dovetail rivets, the beveled, projecting heads of which enter the said recesses with which they interlock, whereby the said blocks are held down upon the upper face of the barrel.

2. A single-barrel firearm having the upper face of its barrel formed directly in its upper face with a spaced series of dovetail keyhole recesses, a sight-rib, a series of spacing-blocks fastened to the lower face thereof by means of dovetail rivets the beveled projecting heads of which enter the said recesses for holding the said blocks down upon the upper face of the barrel for slidably securing the barrel and rib together, and means utilizing one of the said blocks for rigidly securing the barrel and rib together at one point between the ends of the latter.

3. A single-barrel firearm having the upper face of its barrel formed directly in its upper face with a series of undercut recesses, a sight-rib, a series of spacing-blocks fastened to the lower face thereof by means of dovetail rivets, the circular beveled projecting heads of which enter the said recesses for holding the said blocks down upon the upper face of the barrel for slidably securing the rib and barrel together, and a fastening screw passing through the rib and

one of the said blocks into a threaded hole leading out of the bottom of one of the said recesses for rigidly attaching the rib to the barrel at a point between the ends of the barrel.

4. A single-barrel firearm having the upper face of its barrel formed directly in its upper face with a spaced series of undercut keyhole recesses, a sight-rib, a series of spacing-blocks having flat upper and concave lower faces applied to the lower face of the sight-rib by dovetail rivets, the circular beveled projecting heads of which enter the said recesses for holding the said blocks down upon the upper face of the barrel, and a screw passed downward through the rib and through one of the said spacing-blocks into a threaded hole leading into the barrel from a recess therein located between the ends thereof.

5. A single-barrel firearm having a receiver and a barrel, a sight-rib removably mounted upon the said barrel, and a sight-rib extension arranged in line with the said sight-rib, mounted in the forward end of the said receiver and consisting of an oblong block provided with a depending stud by means of which it is secured in place in the said receiver.

6. A single-barrel firearm having its barrel formed directly in its upper face with a spaced series of dovetail recesses, a sight-rib having a series of spacing blocks upon its lower face, and dovetail heads projecting from the said blocks and entering the said recesses with which they interlock, whereby the said blocks are held down upon the upper face of the barrel.

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

CHARLES E. BLIZARD.

Witnesses:
THOMAS C. JOHNSON,
FRANK A. PAUL.