Feb. 7, 1950 C. CRANK 2,496,854

REMOVABLE VENTILATED RIB FOR SHOTGUN BARRELS

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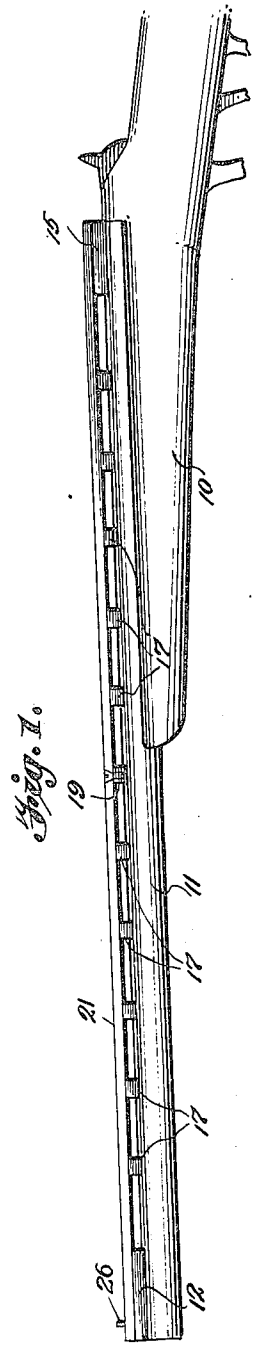


Fig. 1.

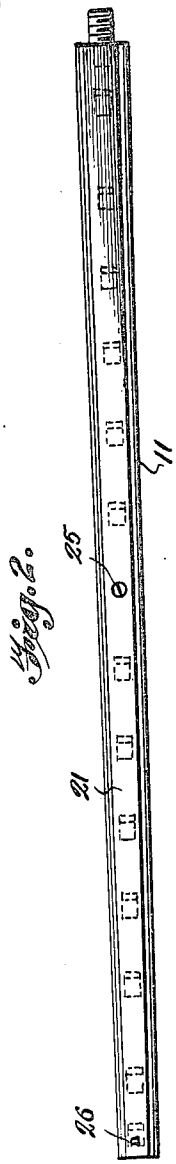


Fig. 2.

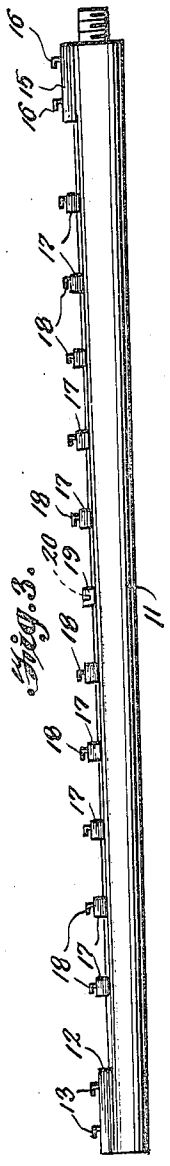


Fig. 3.

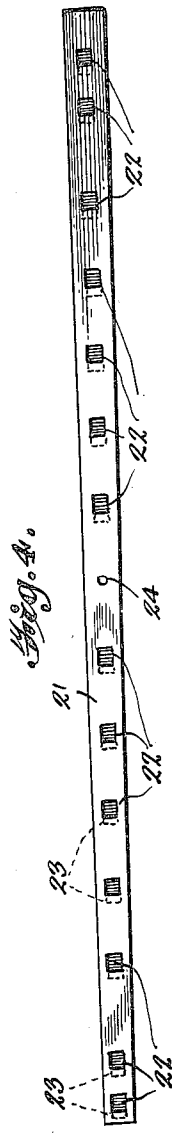


Fig. 4.

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REMOVABLE VENTILATED RIB FOR SHOTGUN BARRELS

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Fig. 5.

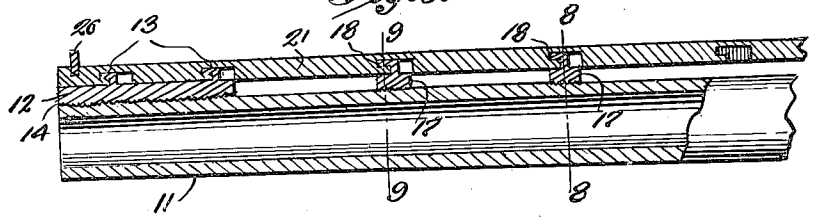


Fig. 6.

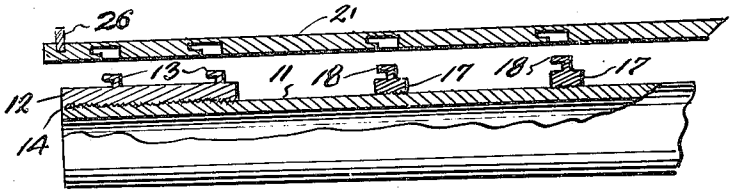


Fig. 7.

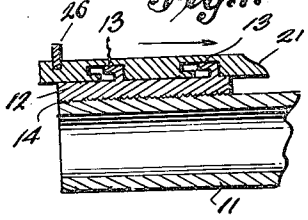


Fig. 8.

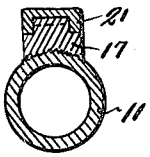


Fig. 9.

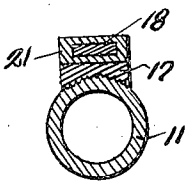


Fig. 10.

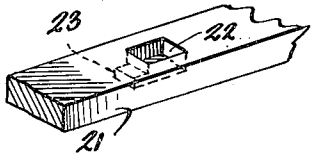
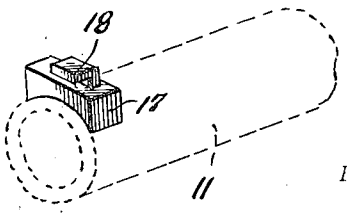


Fig. 11.



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UNITED STATES PATENT OFFICE

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REMOVABLE VENTILATED RIB FOR SHOTGUN BARRELS

Carroll Crank, Clarence, Mo.

Application June 4, 1948, Serial No. 31,033

1 Claim. (Cl. 42—76)

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The present invention relates to removable ventilated rib for shotgun barrels and it consists in the combinations, constructions and arrangements of parts herein described and claimed.

It is an object of the present invention to provide a removable rib for shotgun barrels which will act as a shield or deflector of heat rays emanating from a shotgun barrel.

Another object of the invention is the provision of a rib for shotgun barrels having means whereby the same may be quickly and easily attached and detached from the barrel.

Another object of the invention is to provide a device of the character set forth which will provide a means whereby the user of a shotgun may more easily and accurately see and utilize the front sight of his shotgun.

A further object of the invention is the provision of a device of the character set forth wherein means is provided against warpage due to expansion and contraction in accordance with temperature changes in a shotgun barrel.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawings, in which:

Figure 1 is a side elevational view of an embodiment of the invention,

Figure 2 is a plan view of Figure 1,

Figure 3 is a side elevational view of a shotgun barrel utilizing the invention but with certain elements removed,

Figure 4 is a bottom plan view of an element of the invention,

Figure 5 is an enlarged fragmentary vertical sectional view showing a rib forming a part of the invention in locked position upon a shotgun barrel,

Figure 6 is a view similar to Figure 5 but showing the rib removed from the barrel,

Figure 7 is a fragmentary vertical sectional view illustrating the method of attaching the rib to the gun barrel,

Figure 8 is a sectional view taken along line 8—8 of Figure 5,

Figure 9 is a sectional view taken along line 9—9 of Figure 5,

Figure 10 is a fragmentary perspective view of the rib above referred to, and

Figure 11 is a fragmentary perspective view of a spacing block forming a part of the invention.

It is well known that when a shotgun has been fired several times, the heat waves emanating from the barrel thereof tend to rise and interfere with the proper alignment of the front and rear

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sights of the shotgun. The present invention provides generally for a plurality of spacing blocks which are permanently affixed, as by silver solder, to the top of the barrel. A rib is also provided and is adapted to be quickly and easily attached to and detached from the spacing blocks. The rib acts not only as a deflector for the rising heat waves but also provides ventilation for the barrel and is so mounted upon the barrel as to remain comparatively cool at all times to thereby provide for proper sighting of the shotgun without undue interference from air vibrations due to a heated barrel.

Referring more particularly to the drawings, there is shown therein a shotgun having a stock 10 and a barrel 11. Adjacent the forward end of the barrel there is mounted on the top side thereof a forward spacing block 12 having a pair of integrally formed upwardly extending rectangular shaped hook members 13. The spacing block 12 is affixed to the barrel 11 preferably by silver solder, as indicated at 14.

A like rear spacing block 15 having a pair of upwardly extending integrally formed hook members 16 is affixed to the barrel adjacent the rear end thereof.

Intermediate the forward and rear spacing blocks there is provided in spaced relation a series of single spacing blocks 17 each provided with a single integrally formed rectangular hook member 18.

It will be noted that in the illustrated form of the invention all of the hook members 13, 16 and 18 extend in a forward direction but that, with a proper alteration of sockets hereinafter to be described the hooks would function in identical manner if directed rearwardly.

Centrally disposed on the top of the barrel 11 and in spaced aligned relation with the blocks 17 is a block 19 having an internally threaded vertical opening 20 therein.

An elongated rib 21 is tapered along its length to conform to the contour of the barrel 11 and is provided in its underside with sockets 22 each having a forwardly extending recess 23 which sockets are adapted to receive therein the hook members 13, 16 and 18.

The rib is provided with a threaded opening 24 for the reception of a countersunk screw 25 which is adapted to also engage in the opening 20 in the block 19 and a forward sight 26 is mounted atop the rib adjacent the forward end thereof.

In operation, in order to attach the rib 21 to the barrel 11 it is only necessary to place the same upon the barrel in such manner that the hooks

13, 16 and 18 may enter the recesses 22. Thereupon the rib is moved directly to the rear in order that the hooks may enter the recesses 23. Thereupon the screw 25 is threaded into the openings 24 and 20 to rigidly secure the rib in position. It will be seen that, since the rib is attached rigidly only in one place, namely at the point where the screw 25 is attached, that the rib is free to expand and contract without distortion as there is provided room for relative longitudinal movement between the hooks and their respective recesses and slots. Also, the double sized blocks 12 and 15 at the forward and rear ends, respectively, provide additional strength at these places. The rectangular form of the hook members and their respective recesses provides against lateral movement so that, once mounted upon the barrel, the rib is in effect an integral part of the shotgun and will provide the same with the advantages above set forth.

While but one form of the invention has been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claim.

What is claimed is:

A device of the character described comprising, in combination, a shotgun barrel, an elongated block atop the forward end of the barrel,

an elongated block atop the rear end of the barrel, a pair of forwardly extending hooks formed integrally with each of said elongated blocks, a series of single blocks, affixed to the top of the barrel in spaced relation between the elongated blocks, a screw-receiving block centrally disposed and in spaced alignment with the single blocks, a forwardly directed hook member integrally formed upon each of the single blocks, a rib having a plurality of sockets constituting its only openings and located in its underside to receive the hook members, said openings being closed when said hook members are received, and a centrally disposed threaded opening and a screw adapted to threadably engage the opening in the rib and the screw-receiving block when said hook members have been inserted in said sockets.

CARROLL CRANK.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,160,157	Flues	Nov. 16, 1915
1,323,149	Blizard	Nov. 25, 1919
1,323,151	Burton	Nov. 25, 1919
2,431,991	Crowe	Dec. 2, 1947