

F. O. HOAGLAND.
VENTILATED SIGHTING RIB FOR GUNS.
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1,029,292.

Patented June 11, 1912.

Fig. 1

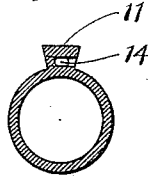


Fig. 2

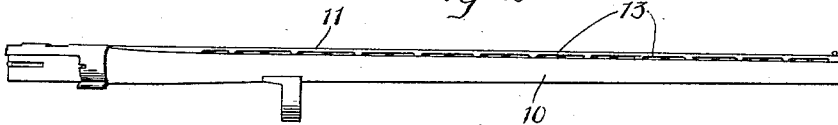


Fig. 3

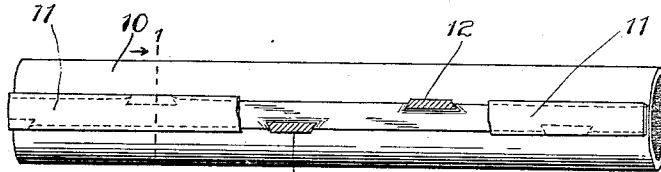
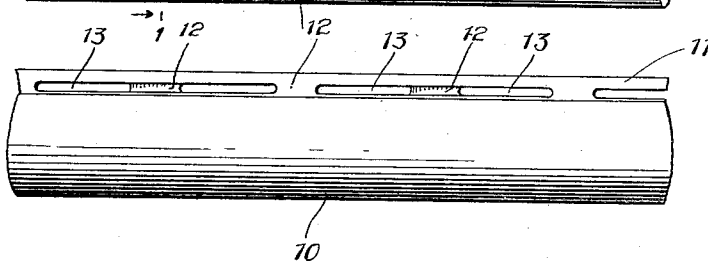


Fig. 4



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK O. HOAGLAND, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO REMINGTON ARMS AND AMMUNITION COMPANY, OF ILION, NEW YORK, A CORPORATION OF NEW YORK.

VENTILATED SIGHTING-RIB FOR GUNS.

1,029,292.

Specification of Letters Patent.

Patented June 11, 1912.

Application filed March 23, 1912. Serial No. 685,890.

To all whom it may concern:

Be it known that I, FRANK O. HOAGLAND, a citizen of the United States, residing at Bridgeport, county of Fairfield, State of Connecticut, have invented an Improvement in Ventilated Sighting-Ribs for Guns, of which the following is a specification.

This invention has for its object to provide an integral, ventilated, hollow, sighting rib for guns of light but strong construction, which will withstand all ordinary strains of use, will prevent uneven expansion of the gun barrel and breakage of the rib or pillars, and, owing to its construction, will permit heat waves to be quickly dissipated, thereby minimizing the heat wave difficulty which has heretofore been a serious objection, especially in cold weather, to the use of sighting ribs.

With these and other objects in view, I have devised the novel integral sighting rib which I will now describe, referring to the accompanying drawing forming a part of this specification and using reference characters to indicate the several parts.

Figure 1 is a cross section of a gun barrel provided with my novel sighting rib on the line 1—1 in Fig. 3, looking in the direction of the arrows; Fig. 2, an elevation of a gun barrel detached provided with my novel sighting rib; Fig. 3, a plan view partly in horizontal section corresponding with Fig. 1; and Fig. 4 is a side elevation corresponding with Figs. 1 and 3.

10 denotes a gun barrel, 11 the sighting rib, and 12 the pillars by which it is connected to the barrel. The pillars are relatively small and are placed in staggered relation to each other. The rib is provided with relatively wide transverse openings 13 between the pillars and the pillars are spaced apart transversely to provide a central longitudinal opening 14 the entire length thereof. (See Fig. 1 in connection with Fig. 3.) It will of course be understood that the exact shape and size of the rib, or the pillars or the longitudinal or transverse openings are not of the essence of the invention but may be varied to an almost unlimited extent to meet the requirements of use or the taste of the manufacturer. In practice, the shape of the rib and pillars, and also of the longitudinal and

transverse openings, will necessarily correspond with the design of the cutters by which they are formed. For the sake of appearance only, I preferably progressively decrease the length of the transverse openings slightly from the stock end toward the muzzle end of the barrel.

The general effect of the peculiarly open construction of the rib is to wholly avoid the usual objections to sighting ribs caused by undue expansion of the barrel and consequent breakage of the rib and pillars. By providing the relatively long transverse openings between the pillars and in connection therewith the central longitudinal opening the entire length of the rib I insure the most perfect ventilation of the rib possible, prevent the intense heat of the barrel from being transmitted to the rib, which is kept relatively cool, and prevent excessive strains of expansion and contraction of either pillars or rib. Furthermore, the perfect ventilation of the rib causes the almost instant dissipation of the heat waves which rise from the barrel and have heretofore interfered very seriously with the use of guns provided with sighting ribs, especially in cold weather.

Having thus described my invention, I claim:

1. A gun barrel provided with a sighting rib supported by pillars in staggered relation and having transverse openings between the pillars and a longitudinal opening the entire length of the rib.

2. A gun barrel having an integral sighting rib and pillars therefor in staggered relation, said pillars being spaced apart transversely to provide a longitudinal opening extending the length of the rib.

3. A gun barrel provided with a sighting rib supported by pillars in staggered relation leaving relatively wide transverse openings between the pillars.

4. A gun barrel provided with a sighting rib supported by pillars, the width of the pillars being less than the width of the rib.

In testimony whereof I affix my signature in presence of two witnesses.

FRANK O. HOAGLAND.

Witnesses:

S. W. ATHERTON,
M. L. HAGGEMAN.