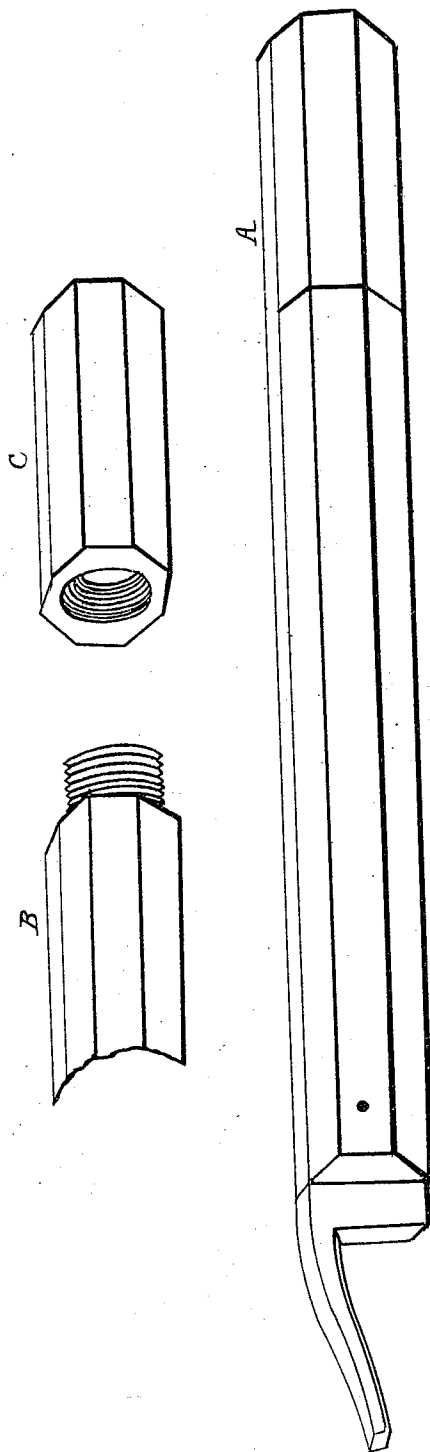


P. S. NEWTON  
Muzzle-Loading Fire-Arm.

No 3,115

Patented June 1, 1843.



# UNITED STATES PATENT OFFICE.

PHILO S. NEWTON, OF HARTFORD, CONNECTICUT.

## ATTACHED MUZZLE FOR FIREARMS.

Specification of Letters Patent No. 3,115, dated June 1, 1843.

*To all whom it may concern:*

Be it known that I, PHILO S. NEWTON, of the city and county of Hartford, in the State of Connecticut, have invented a new and improved attached muzzle to firearms for the purposes of the more accurate discharge of the ball or shot of the firearms and the prevention of the wear of the orifice of the barrel consequent upon its frequent discharge and long use; and I do declare the following is a full and exact description.

The nature of my invention consists in providing a screw joint near the muzzle of the piece, by which means the upper end of the barrel, when the barrel is nearly completed, can be detached for the purpose of being hardened, and by which hardening the orifice of the part so hardened becomes slightly contracted, thus rendering the direction of the shot or ball in the discharge, more accurate, and the muzzle also is prevented from the otherwise ordinary wear by use.

To enable others skilled in the art to make use of my invention, I will proceed to describe its construction and operation.

When the barrel is partly finished, and while it is in a rough, or ground state, a piece of suitable length is fitted and attached to the end (see A in the accompanying drawing), of the barrel, by means of a screw cut upon the end of the barrel, (as at B,) and the countersink in the piece attached, (as at C,). The bore of the barrel is then finished in the usual manner; and when the exterior of the barrel is nearly

completed the piece A is detached, and hardened, then it is replaced firmly by means of the screw, and there permanently remains, and the whole barrel is completed and finished in the usual manner. The length of the piece A will depend upon the size and length of the whole barrel. The length of the screw should be about one half an inch. The length of the piece should be from one to six inches. After the piece A, or muzzle, is hardened and replaced upon the barrel, the lower end of the bore of it, that is, of the piece, or muzzle, is draw-bored, or ground with lead and emery, in order to remove the slight discrepancy between it and the bore of the other part of the barrel at the place of union.

What I claim as my invention, and desire to secure by Letters Patent, is—

The hardened attached muzzle to firearms, which by hardening is slightly contracted, and also the wear thereof by ordinary use prevented, the whole object of the screw joint being for the purpose of hardening the muzzle or upper end of the barrel while separated from the barrel, and thus the springing of the barrel, which might be caused if the end or muzzle was hardened while attached, is entirely avoided.

Dated at Hartford, in the county of Hartford this 31st day of March A. D. 1843.

PHILO S. NEWTON.

Signed in presence of—

BENJN. BISSELL,  
R. G. DRAKE.