

J. W. PEARSON.
Ordnance Gas Vent.

No. 95,720.

Patented Oct. 12, 1869.

Fig. 1

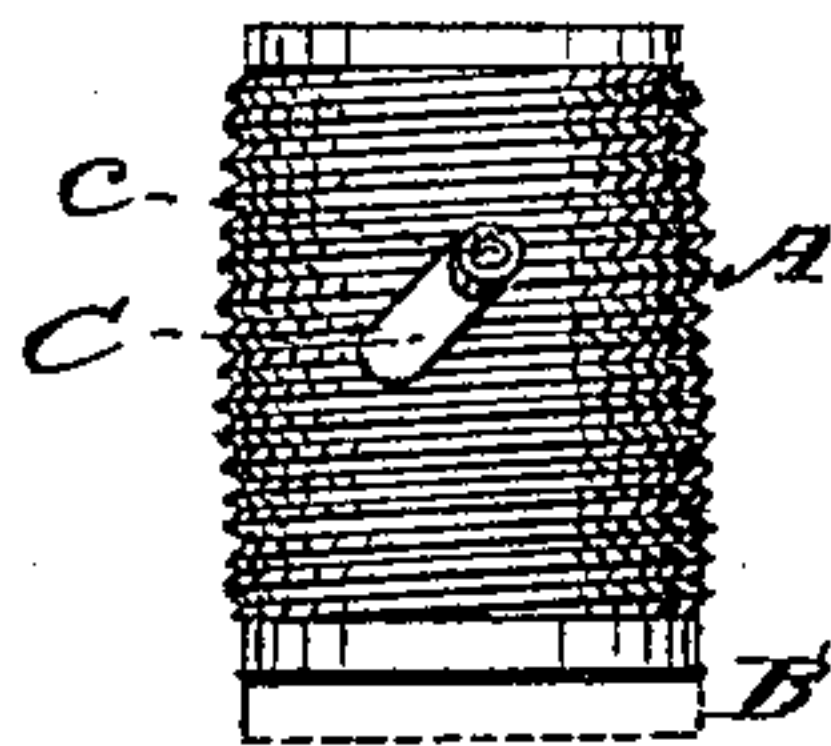


Fig. 2

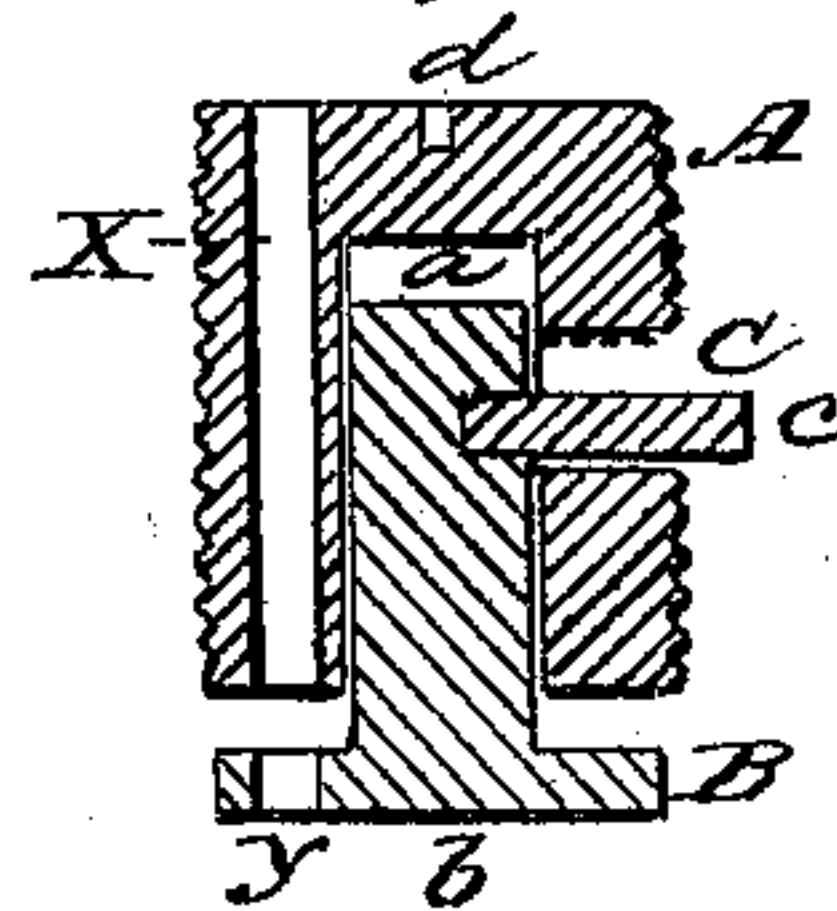
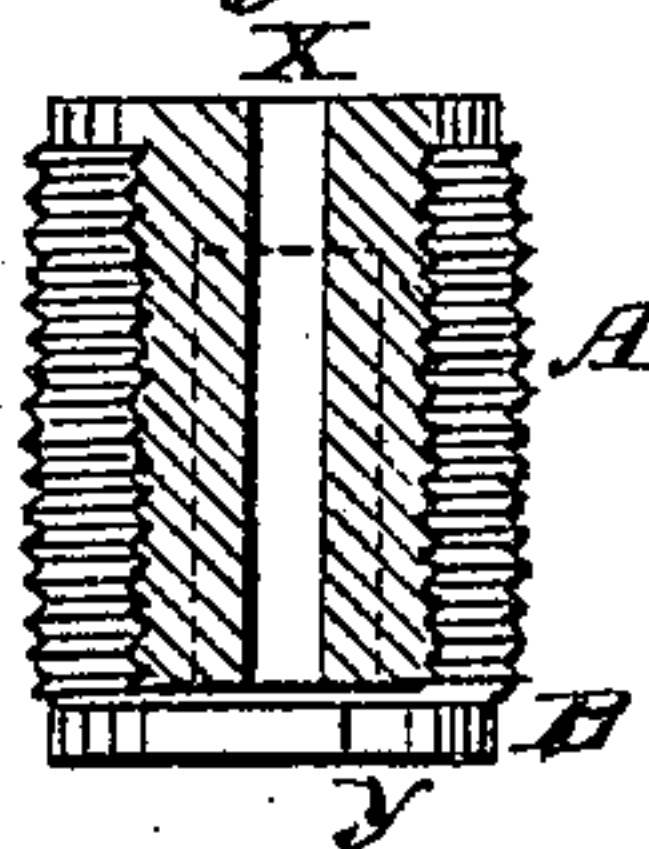


Fig. 3



Witnesses:

W. J. Johnson
W. M. Parker

Inventor:

J. W. Pearson
By A. V. Ely

United States Patent Office.

J. W. PEARSON, OF WATERTOWN, ASSIGNOR TO ALFRED B. ELY,
OF NEWTON, MASSACHUSETTS.

Letters Patent No. 95,720, dated October 12, 1869.

IMPROVED GAS-CHECK FOR ORDNANCE.

The Schedule referred to in these Letters Patent and making part of the same

Be it known that I, J. W. PEARSON, of Watertown, in the State of Massachusetts, have invented a new and improved Gas-Check for Ordnance, of which the following, with the drawings, is a full description.

Figure 1 is a plan view with check closed.

Figure 2 is a section with check open.

Figure 3 is a section with check closed.

It is well known that the effect of the gases generated by the explosion of the cartridges in heavy ordnance is injurious to the inside of the charge-chamber, and in the direction of the touch-hole produces large channels.

My invention is intended to remedy the evil effects of these gases upon the touch-hole of the gun, by enabling them to close the hole at each discharge.

A is a screw-plug, made to screw into the body of the gun at the touch-hole, *d* being a slot for the screw-driver.

This plug is made hollow from the bottom upward toward the top by a cylindrical cavity, *a*.

Into this cavity is introduced a flat-headed bolt or piston, B; *b* the head of the bolt being of the diameter, or nearly so, of the plug at the bottom of its screw-threads.

In the side of the plug is cut a slanting or slightly spiral slot, C, through which passes a pin, *c*, into the piston *b*. This allows the bolt or piston to move up and down, and, in moving, to turn partially around.

Down through the plug and head of the piston or bolt, the touch-hole is made to pass *x y*.

When the piston is down, *x* and *y* will be in line, as in fig. 2, but when it is up, they will be out of line, as in fig. 3, and *x* will be closed.

When the cartridge is placed, and the priming-wire inserted, the piston will be forced down, and *x y* will be in line for firing. When the explosion takes place, it will force up the piston, and the head will turn, and the touch-hole *x* will be closed.

The piston may extend up through the plug, and may have a head at the upper end or a projecting shank.

Instead of the slot C and pin *c*, the hollow of the plug and the shank of the piston may be provided with screw-threads.

The plug may extend above the surface, and have a head, to be manipulated by a wrench, as well as the piston.

What I claim, is—

A gas-check for ordnance, constructed to operate substantially as described.

In testimony whereof, I have hereunto subscribed my name.

J. W. PEARSON.

Witnesses:

A. B. ELY,
ALFRED ELY.