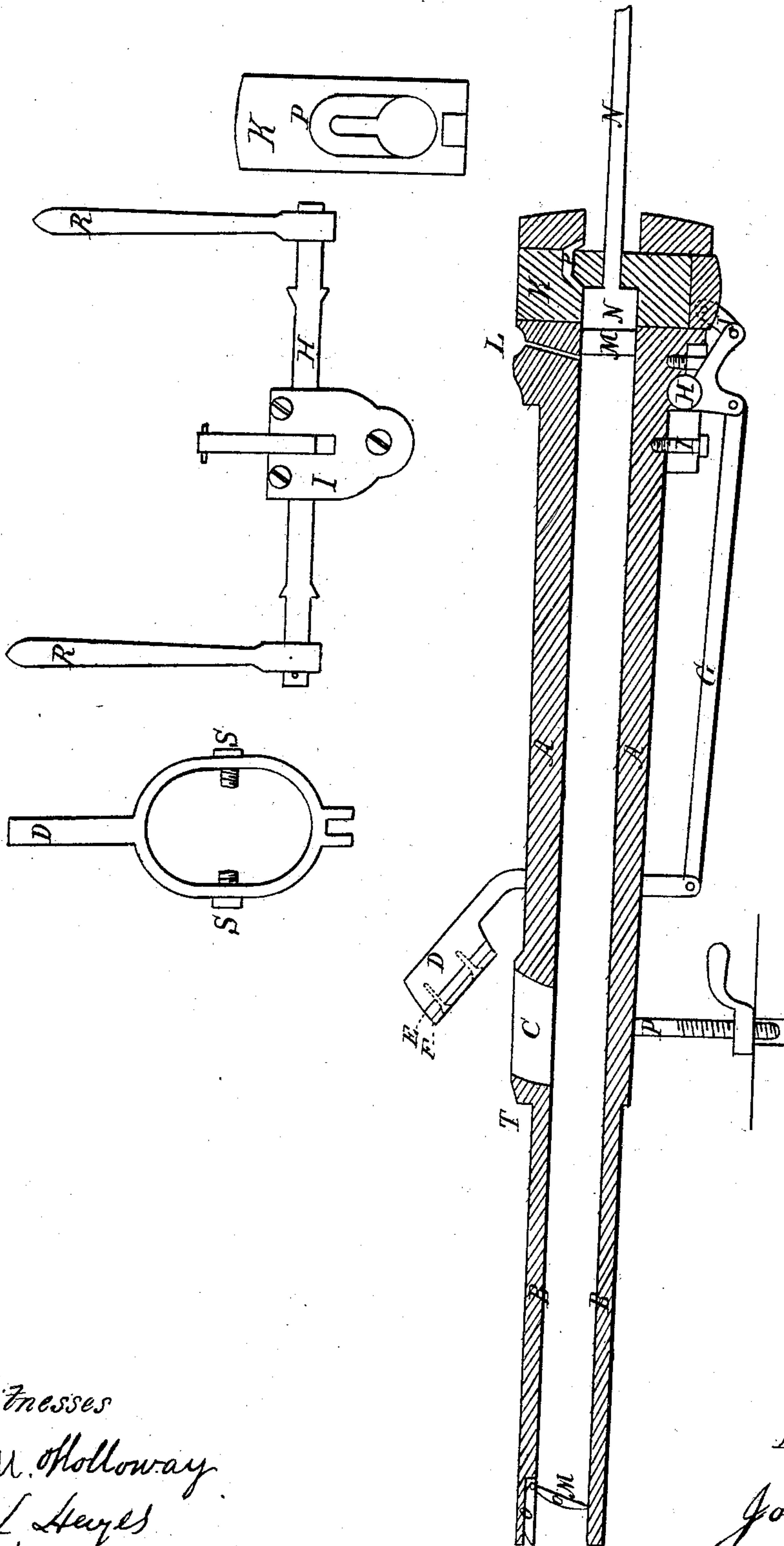


J. C. TILTON.
ORDNANCE FOR USE UNDER WATER.

No. 35,048.

Patented Apr. 22, 1862.



Witnesses
J. M. Holloway.
J. L. Hayes

Inventor.
Jos. C. Tilton.

UNITED STATES PATENT OFFICE.

JOSEPH C. TILTON, OF GENESEO, ILLINOIS.

IMPROVEMENT IN ORDNANCE FOR USE UNDER WATER.

Specification forming part of Letters Patent No. 35,048, dated April 22, 1862.

To all whom it may concern:

Be it known that I, JOS. C. TILTON, of Geneseo, in the county of Henry and State of Illinois, have invented a new and improved mode of throwing or firing projectiles under water; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in providing a long gun of equal diameter from the muzzle to the jog or shoulder T, so that the gun may be extended to any distance through the side or end of the vessel, the muzzle of the gun to have a self-closing valve, O, to keep out the water until the packing-wad M can be pushed forward and take its place, to prevent the valve from being carried away by the projectile. The opening C is to prevent the gun from bursting. The valve D is for closing the opening C, to prevent the water from flowing into the vessel in case the valve O should in any way get injured. The ramrod N and breech-pin K are put in place, as seen in the drawing, with the wad, when the powder and ball are put in, so as to make tight and quick work. By means of the levers R R, the crank, and roller H, the sliding breech K is raised, so the rod N N can be removed and the charge and wad be put in. The valve D is closed and opened by being attached to the roller H by the connecting-rod G, so that the

slide K and rod N N cannot be put in place and the gun discharged without the safety-valve D being opened, which, if closed, would cause the gun to burst. The roller H is secured in place by means of plate I, which is screwed to the gun. The valve D swings upon the pivots S S, which are screwed into the gun. The vent L must be far enough forward to leave room for the wad M, and in case the wad-used is imperfect, and any of the gas passes back into the slot in the slide K, it would have a tendency to lift it; and to prevent its being lifted, there is a small hole, p, made through the slide at the upper edge of the slot, as seen in the drawing.

This gun is mounted upon a carriage and supported by the crank H and the screw P, which is for elevation and depression, and the opening C is made at the top of the gun, so that a pipe or chimney may be attached to carry the smoke and gas out of the vessel.

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

The combination of the valve D, fitted to the opening C, and the sliding breech-pin K, constructed and operated, substantially as described, through crank H and its connections.

JOS. C. TILTON.

Witnesses:

ROB. B. TAYLOR,
WM. S. WHEELER.