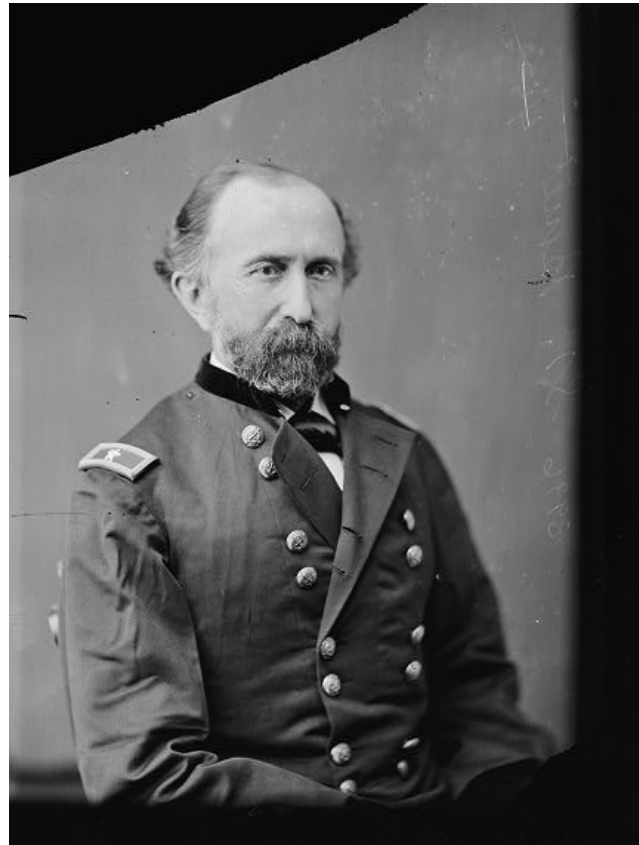


NDIA

Joint Armaments Conference, Exhibition, & Firing Demonstration - 2010

**“Brigadier General Stephen Vincent Benet
(1827 – 1895) - His Life and Times”**

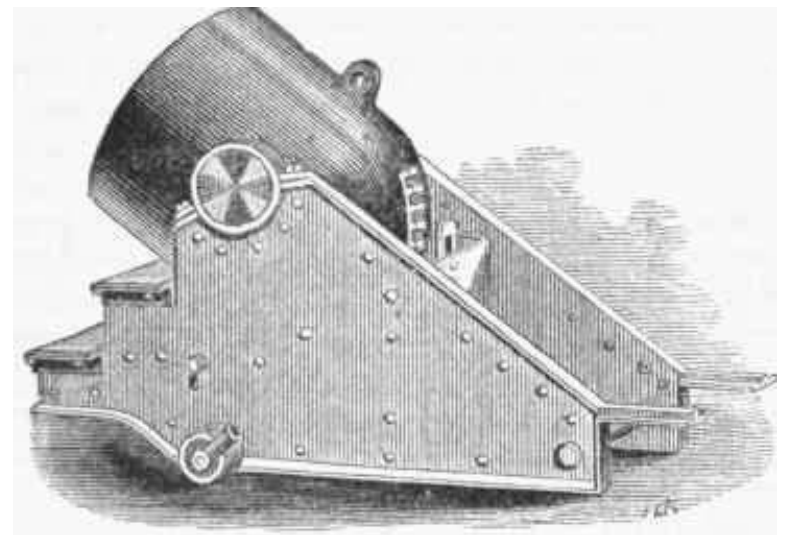
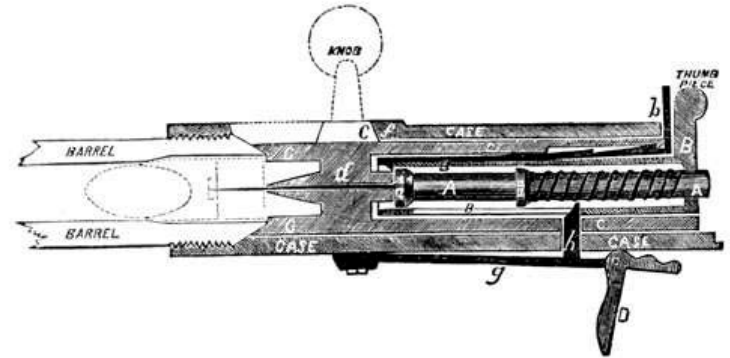


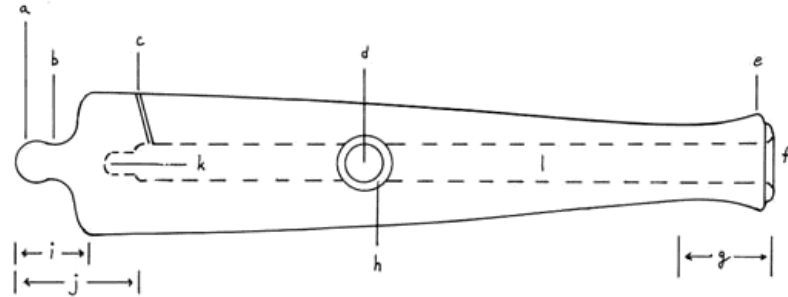
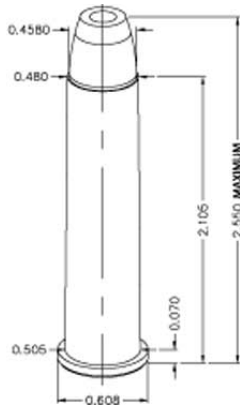
By Stephen C. Small, PhD

As of 1030hrs – 7 May 10

Agenda

- Military Career
- The Late 19th Military
- Homeland Defense and Insurgencies
- Arms and Armament
- Benet's Legacy
- Postscript





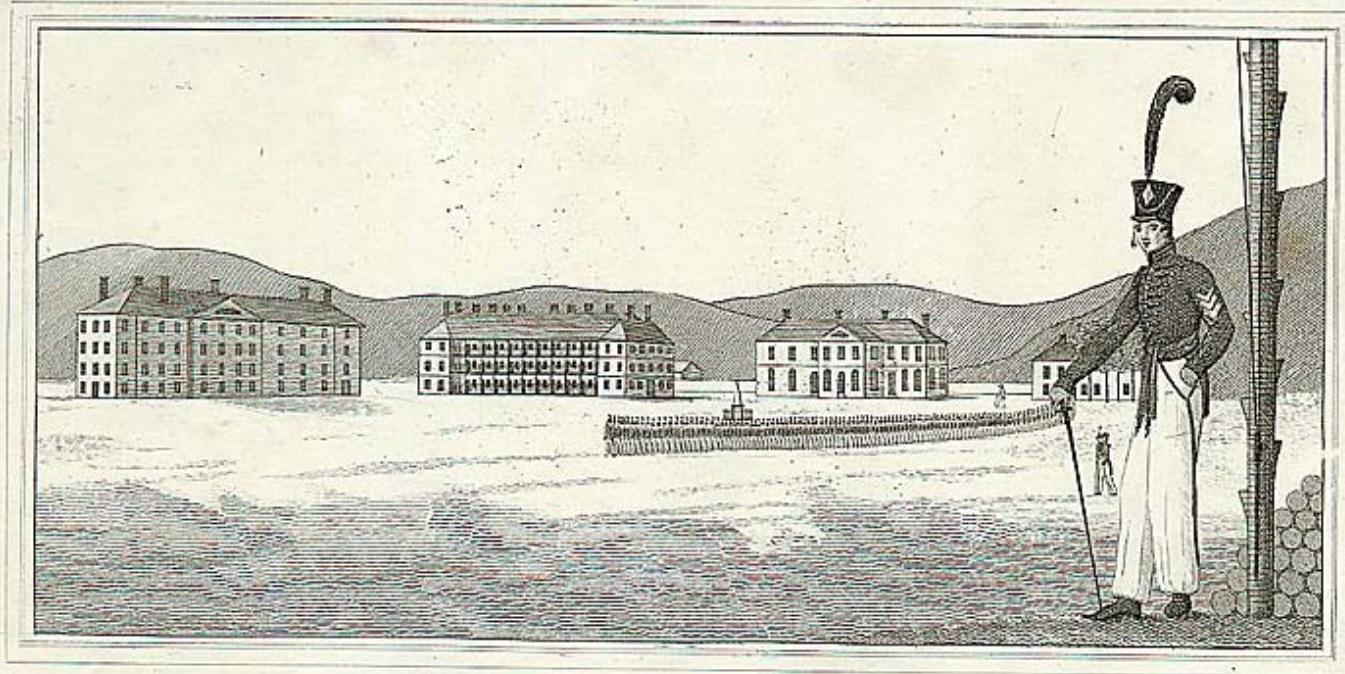
Military Career

Early Life

West Point

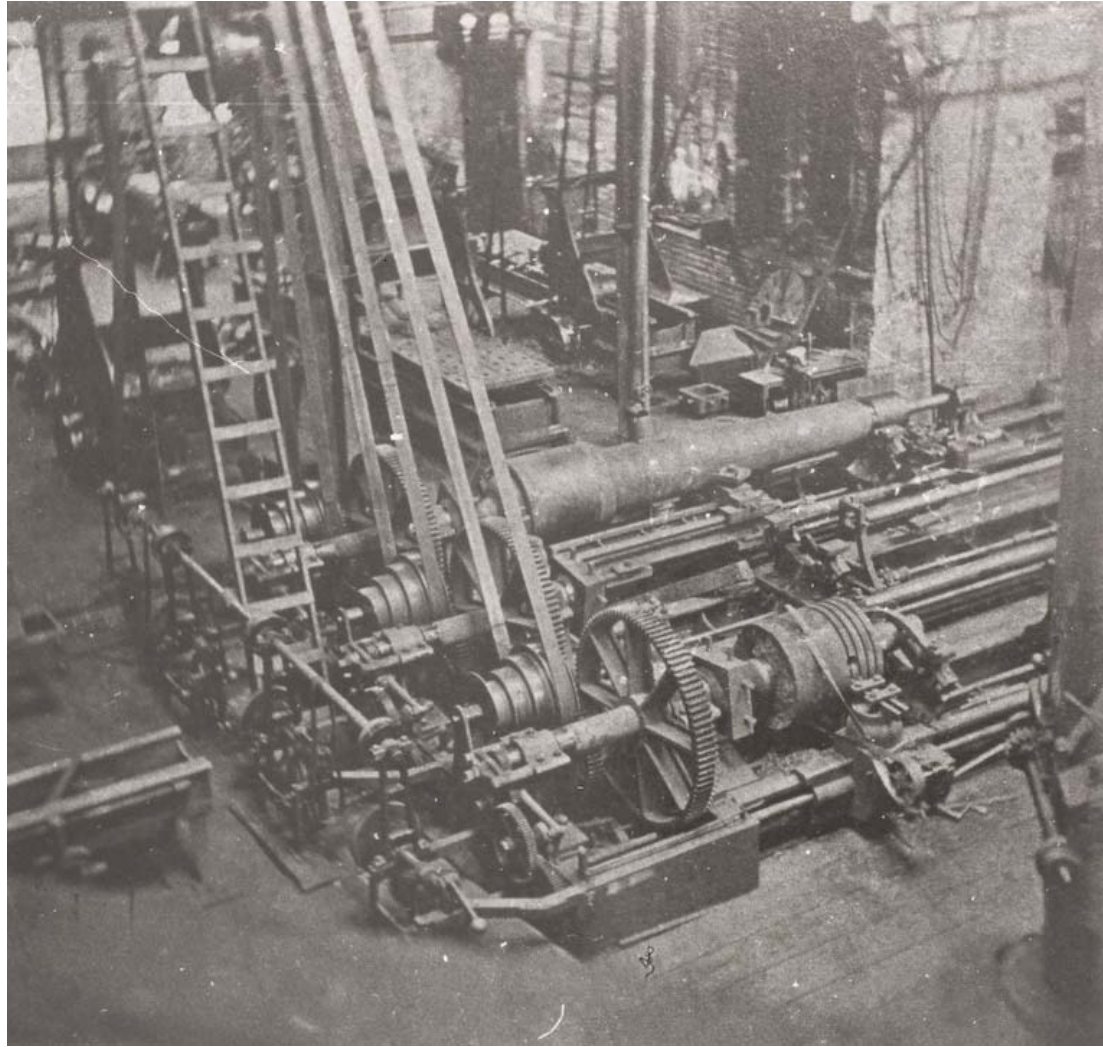
Chief of Ordnance

USMA West Point – 1849



Military Academy West Point, N.Y.

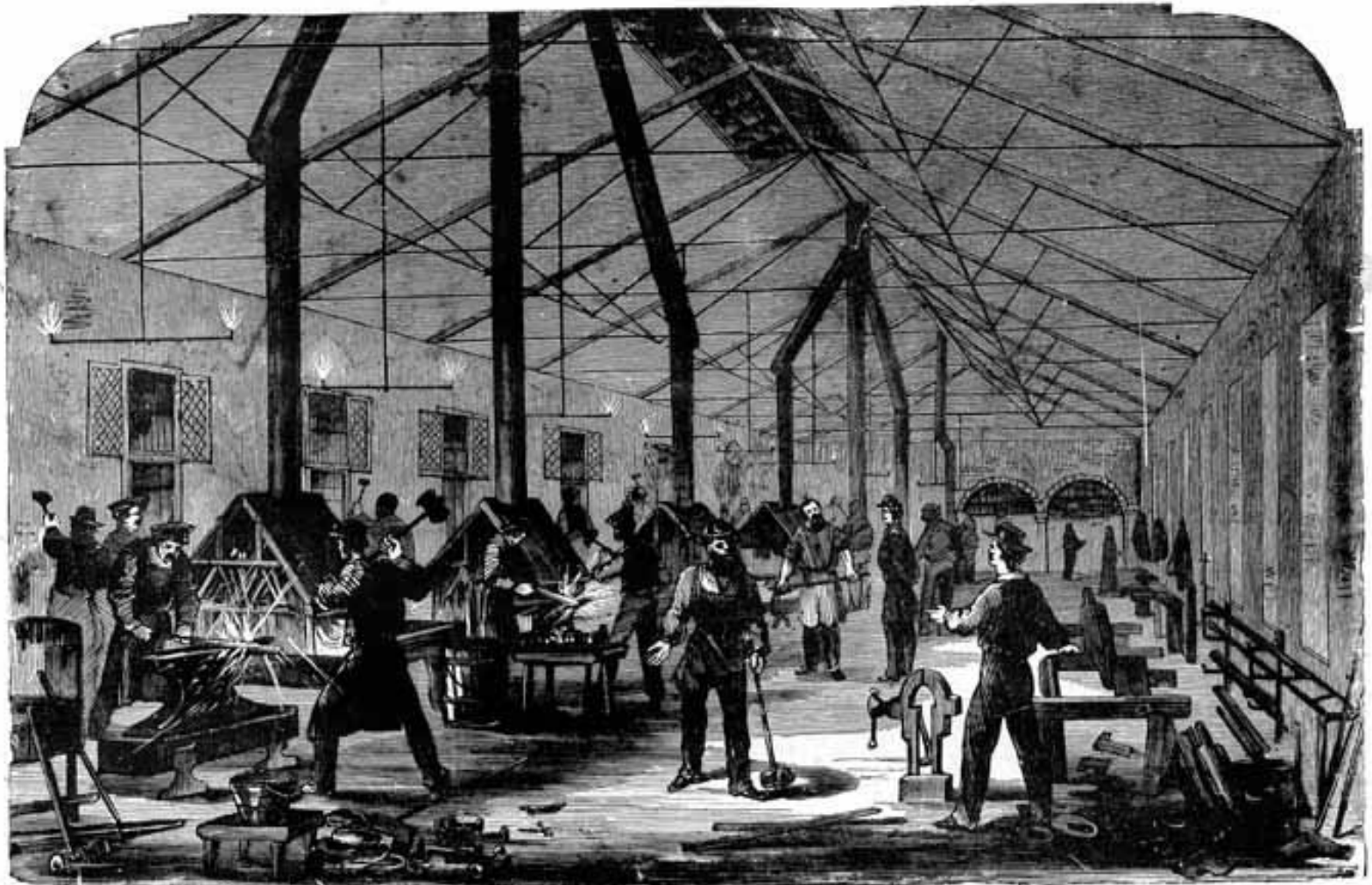
Ordnance Department



Frankford Arsenal

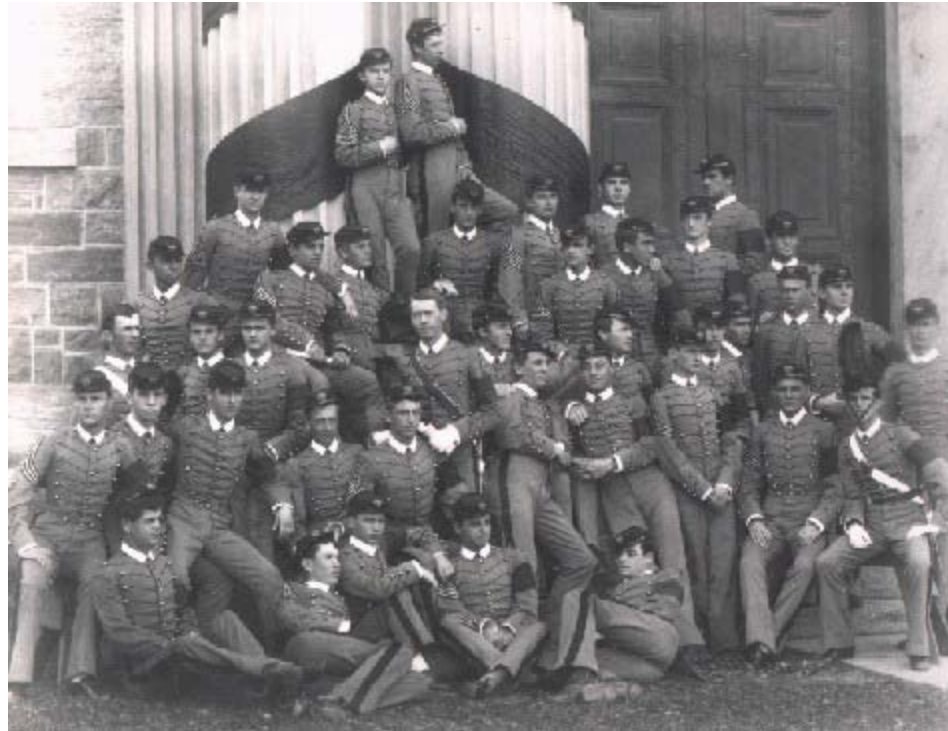


Watervliet Arsenal



FORGING WORK FOR THE GUN-CARRIAGES AT THE WATERVLIIET ARSENAL, WEST TROY, N. Y.

West Point Military Academy Professor



Chief of Ordnance,
Brigadier General Stephen Vincent Benet

June 1874 – January 1891





The Late 19th Century U.S. Military



Underpaid
Overworked
Well Equipped?



The Army



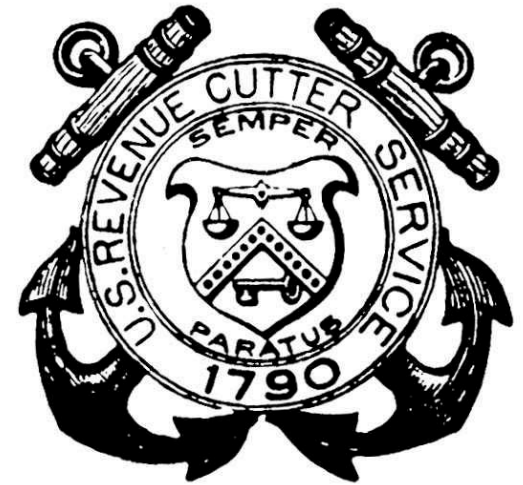
The Navy



The Marines



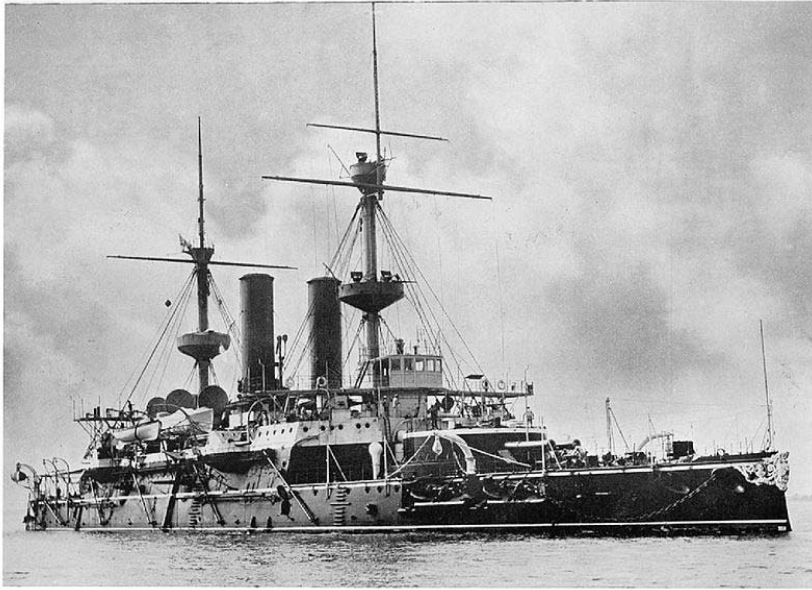
Three Lifesaving Services





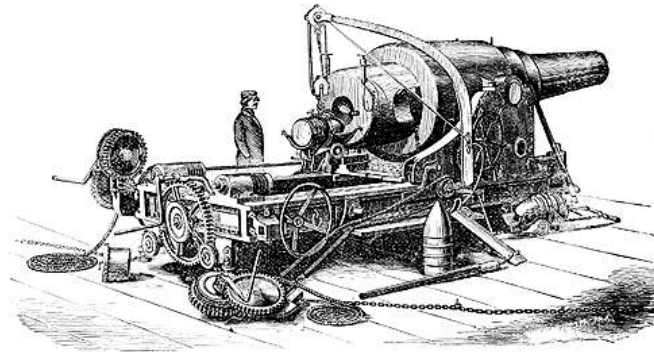
Homeland Defense



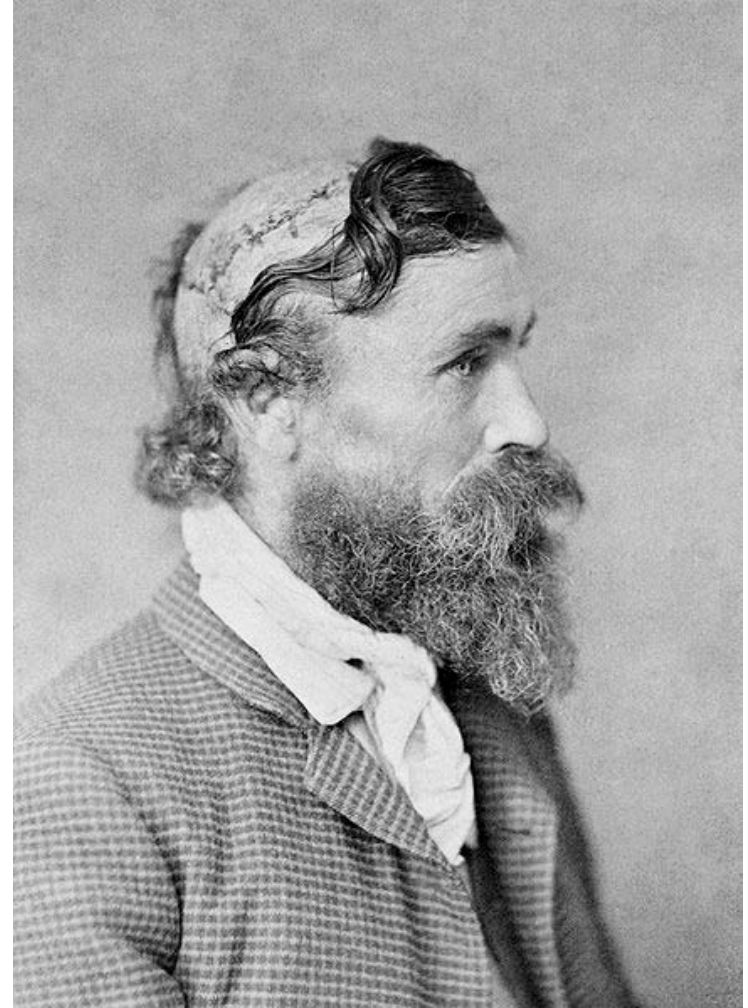


Homeland Defense

The Battleship Raid



Insurgencies



Indian Insurgents



Little Big Horn Battle 1876



1890 – Wounded Knee





Arms and Armaments

1874 – 1891

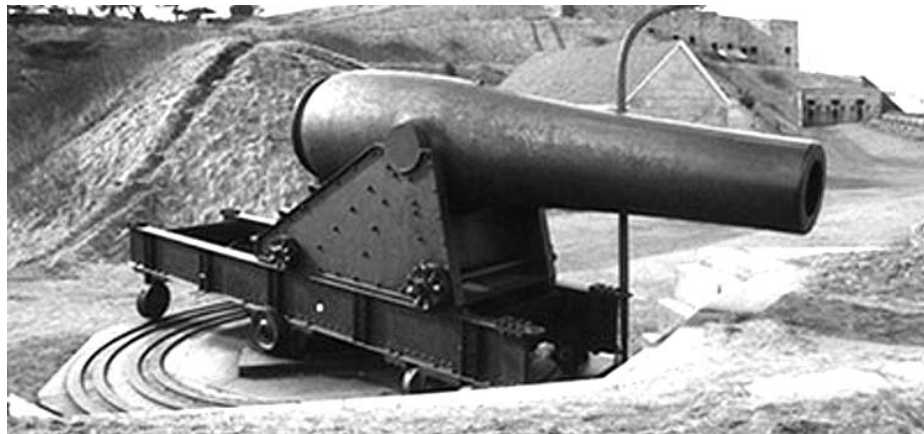
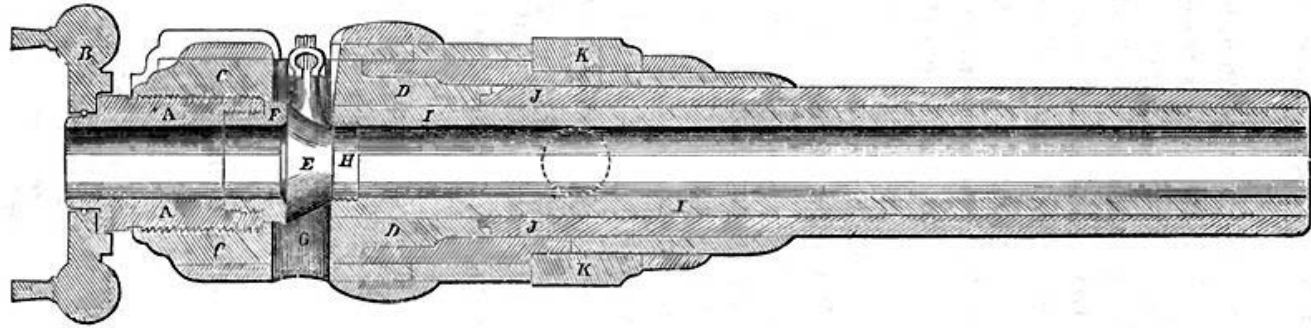
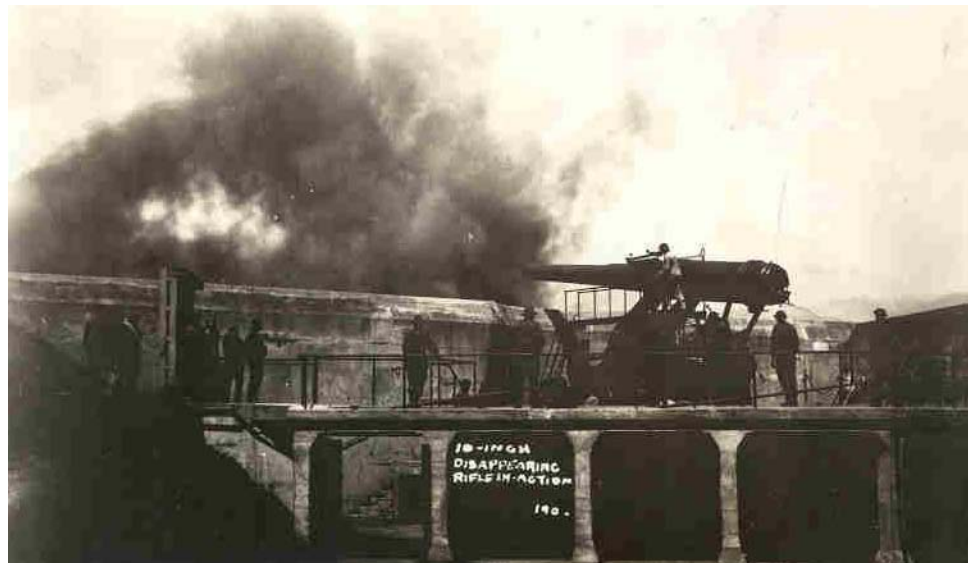


FIG. 344.—Longitudinal section of Armstrong 110-pounder. Scale, $\frac{1}{16}$ in. to 1 ft.



Seacoast Guns

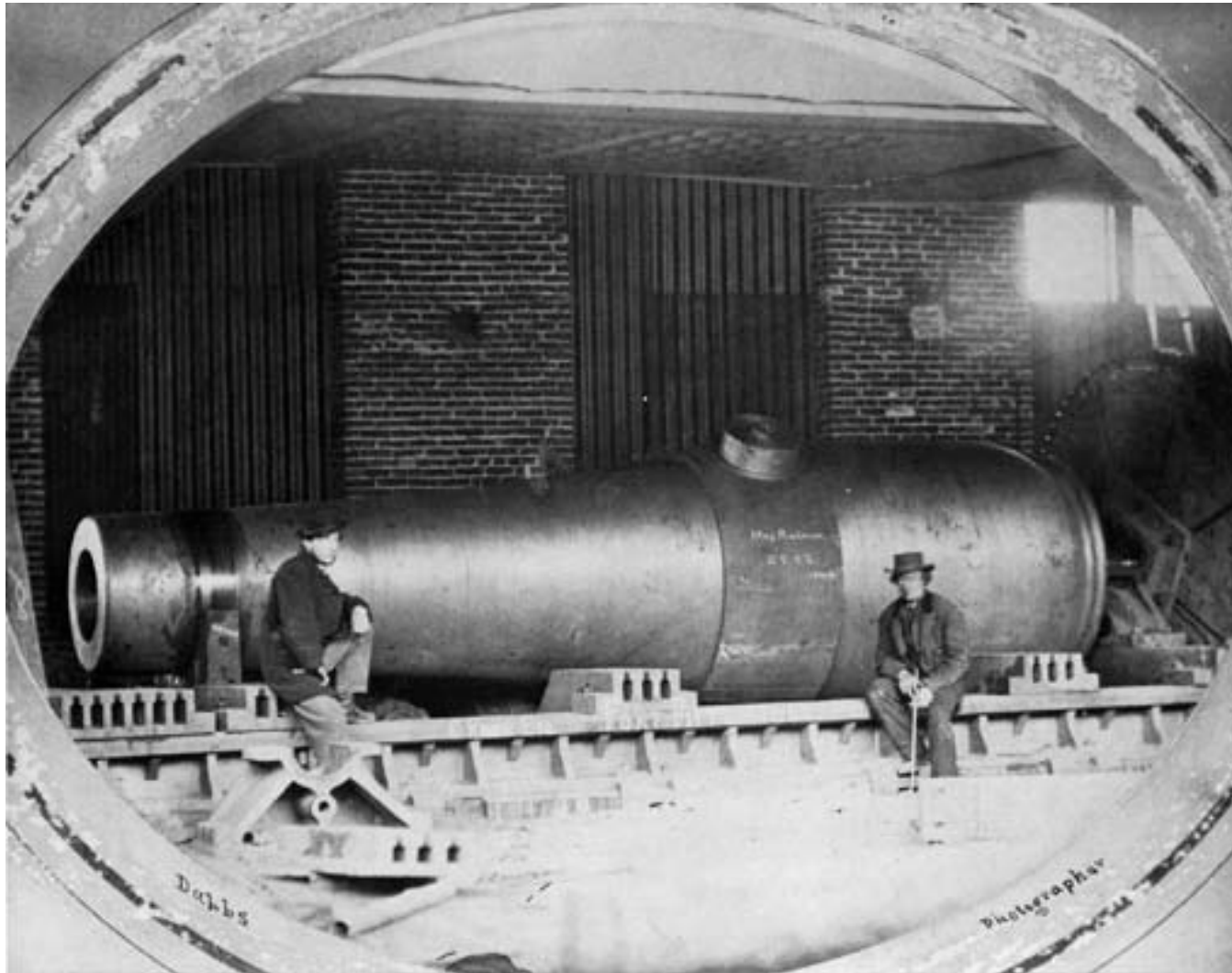


Coastal Defense

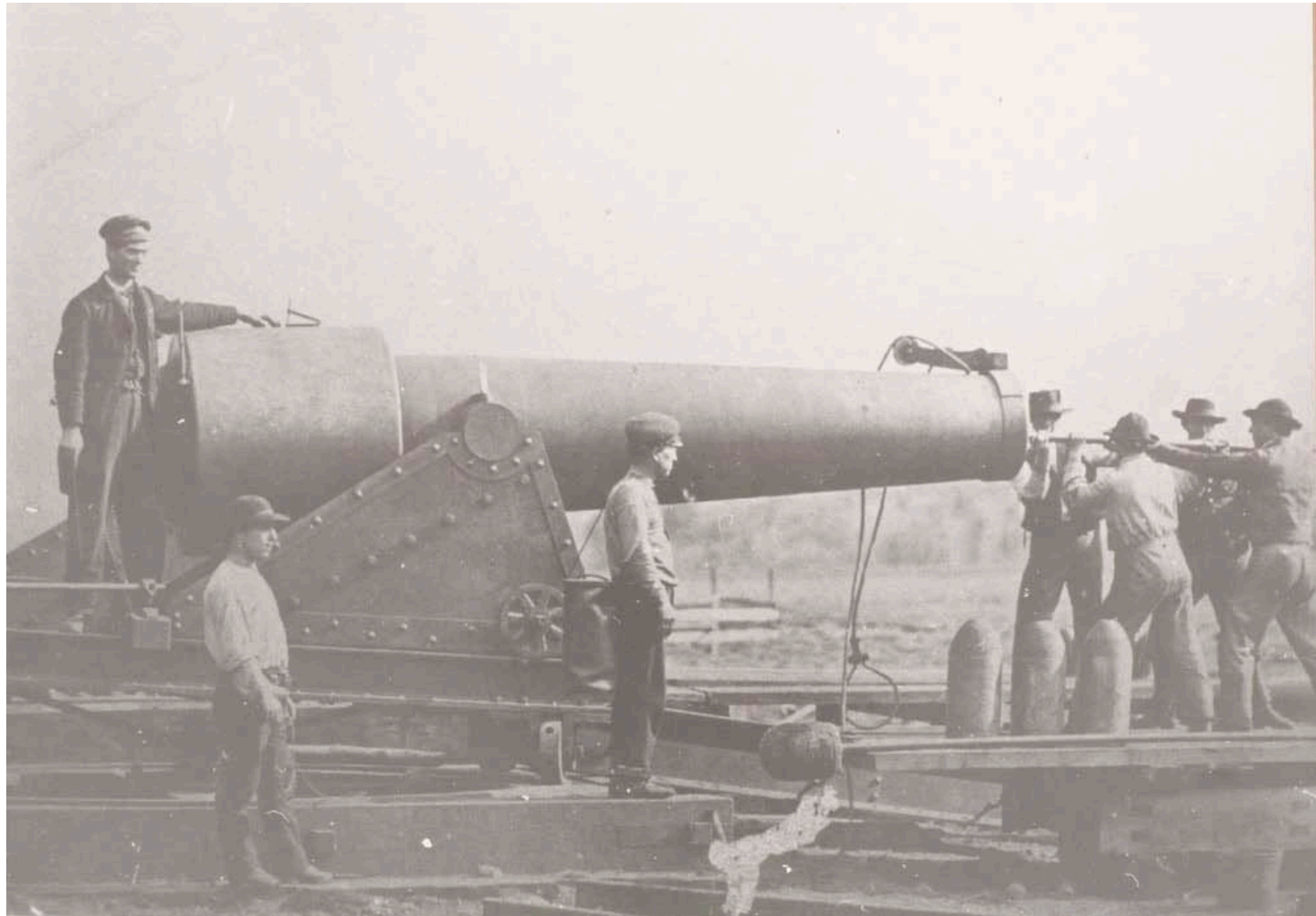


Seacoast Artillery

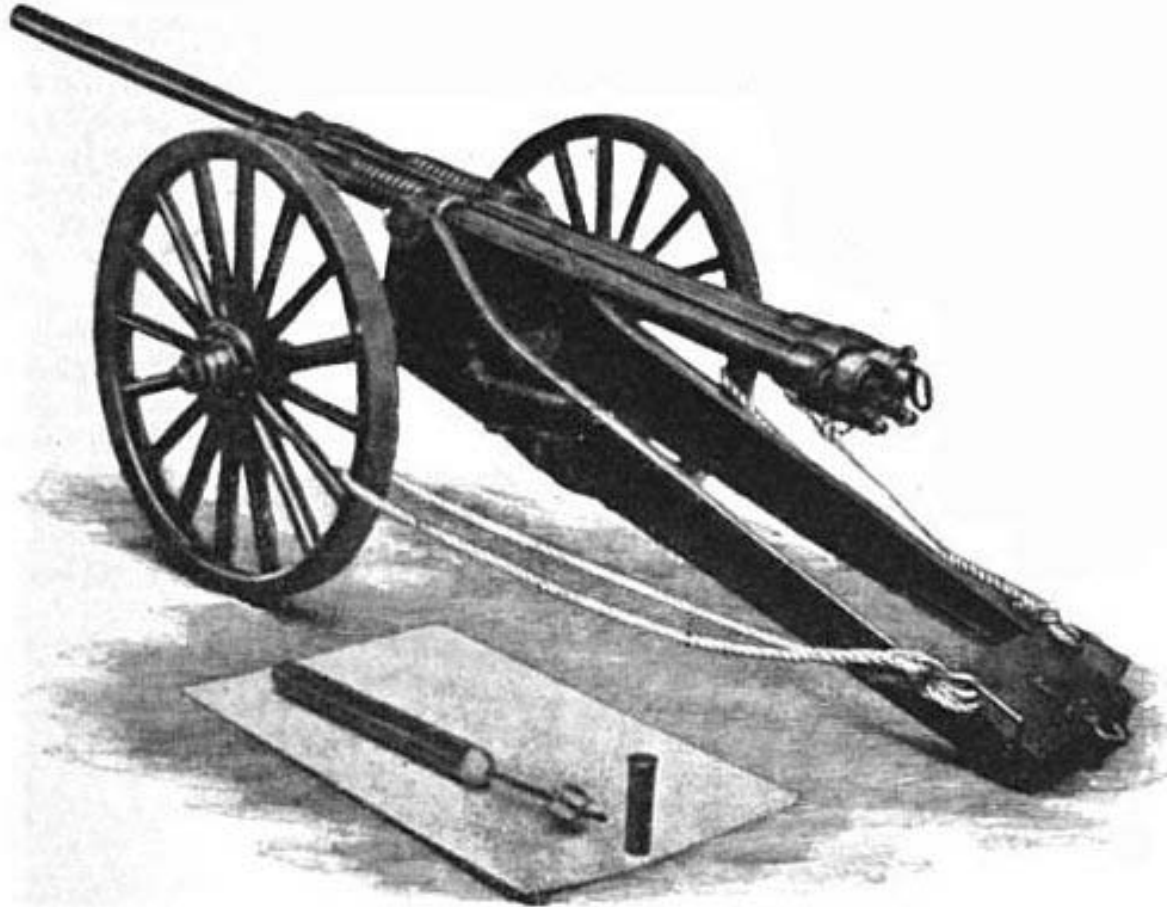
The "Columbiad"



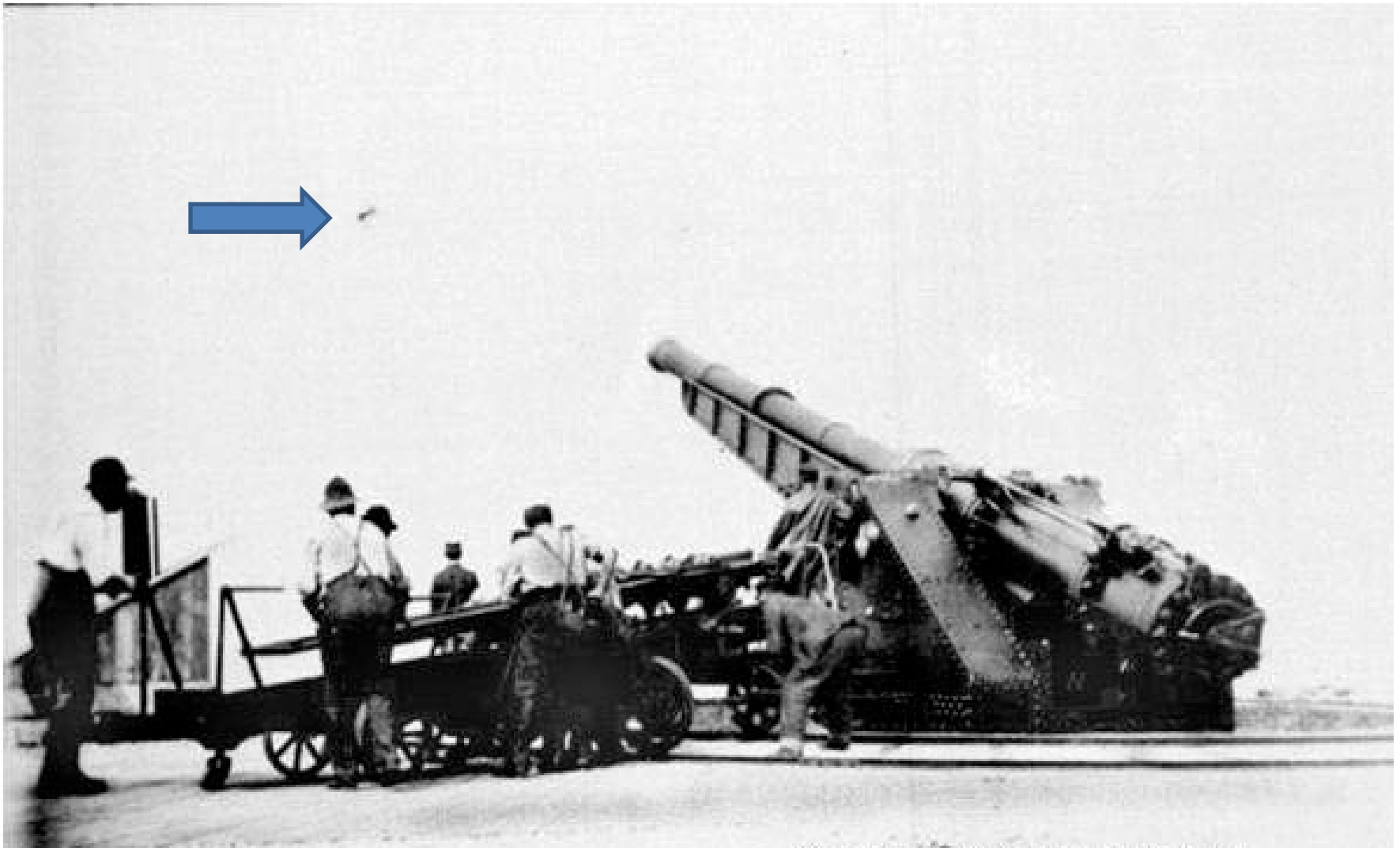
The Parrot Rifled Shell Gun



Testing the Dynamite gun



Testing the Dynamite gun



USS Vesuvius





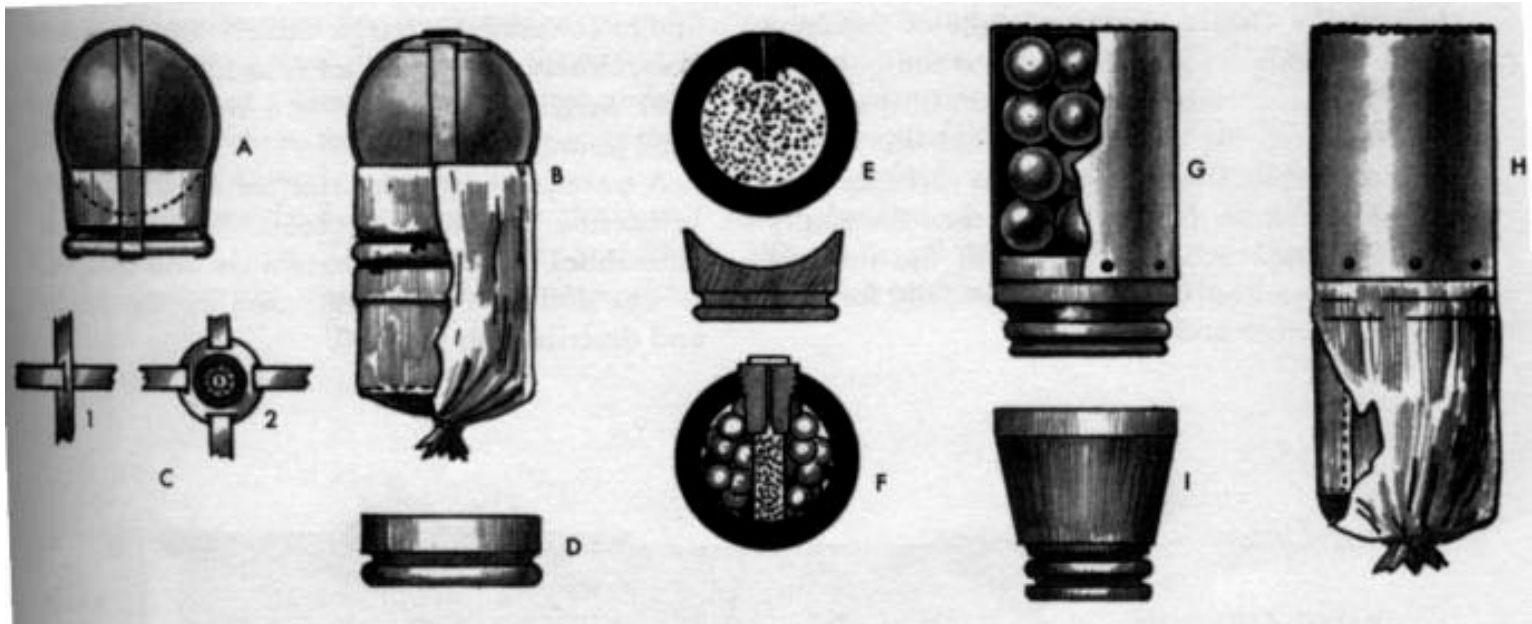
Field Artillery

Mostly Legacy Systems

Field Artillery

<u>Model</u>	<u>Caliber (Inches)</u>	<u>Length of Tube</u>	<u>Max. Range</u>
3-in. Ordnance Rifle	3.00	69 Inches	1830 yards
M1841 6-pounder smoothbore	3.67	60 Inches	1523 yards
10-lb. Parrot Rifle	3.00	74 Inches	1619 yards
12-lb. smoothbore	4.62	78 Inches	1663 yards
12-lb. Howitzer	4.62	53 Inches	1072 yards
M1857 12-lb. Napoleon	4.62	66 Inches	1619 yards
20-lb. Parrot Rifle	3.67	84 Inches	1900 yards

Artillery Smoothbore Ammunition

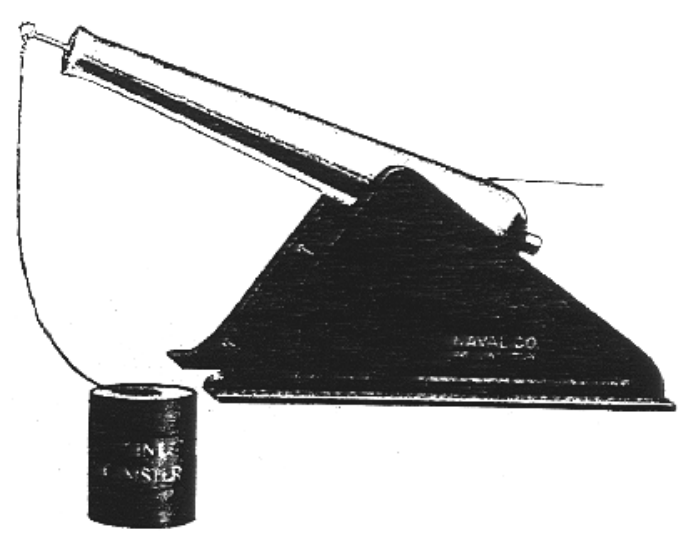


The 3 Inch Hotchkiss Mountain Gun

“Rifled” Projectile



The Lifesaving Lyle Gun





Small Arms

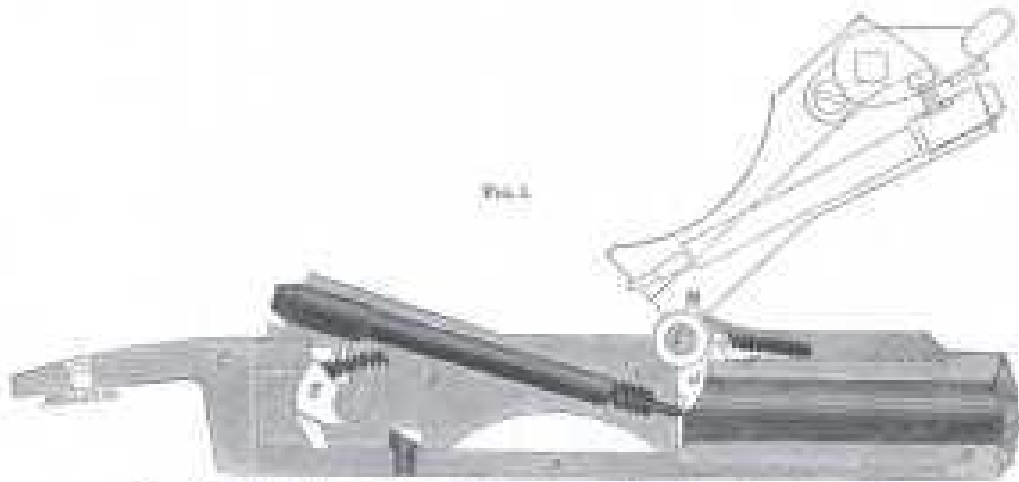
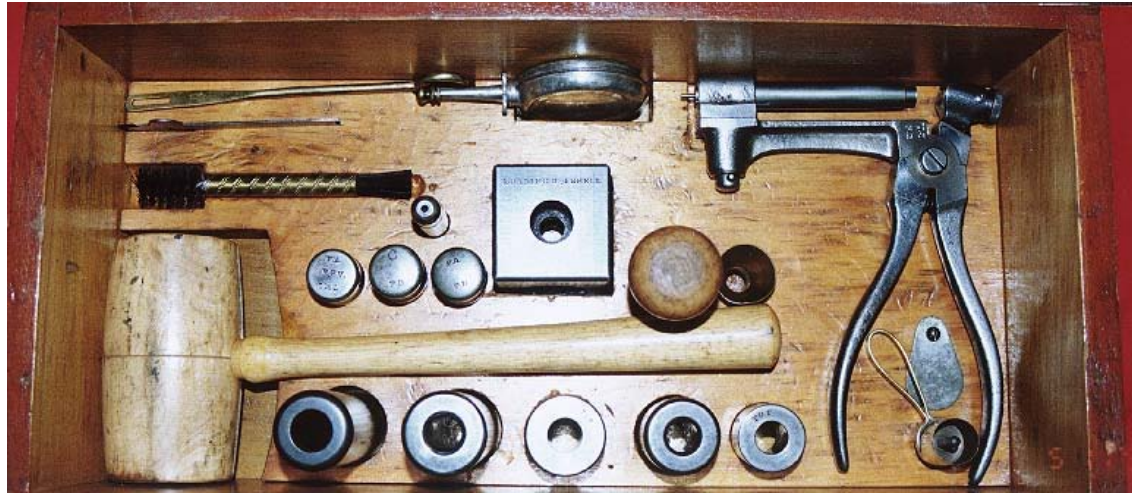
Mostly Legacy Systems



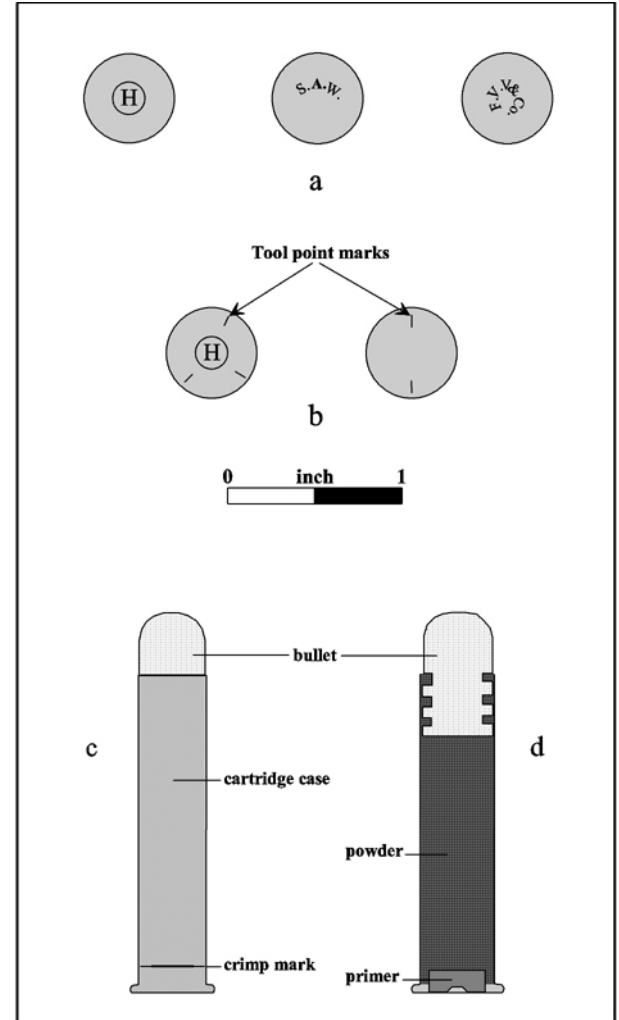
The Service Rifle and Carbine 1866 – 1892



45-70 Caliber

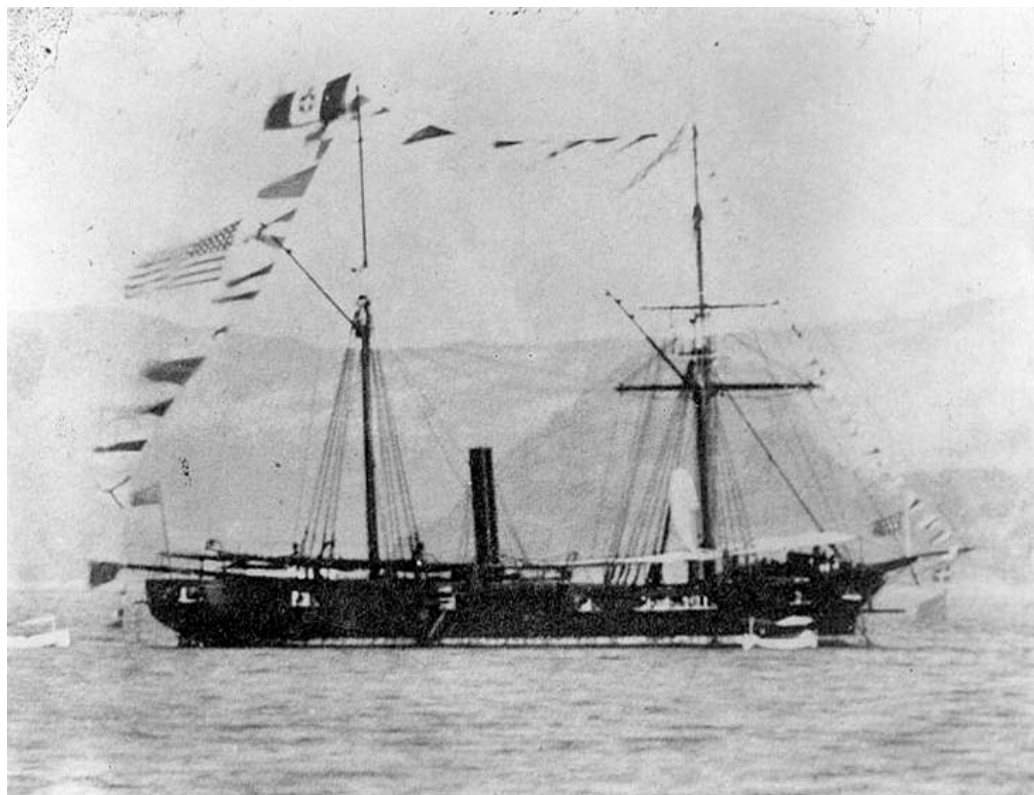


Vertical Section of Breech-Loading Action, Model 1870.



U.S. Navy Model 1869

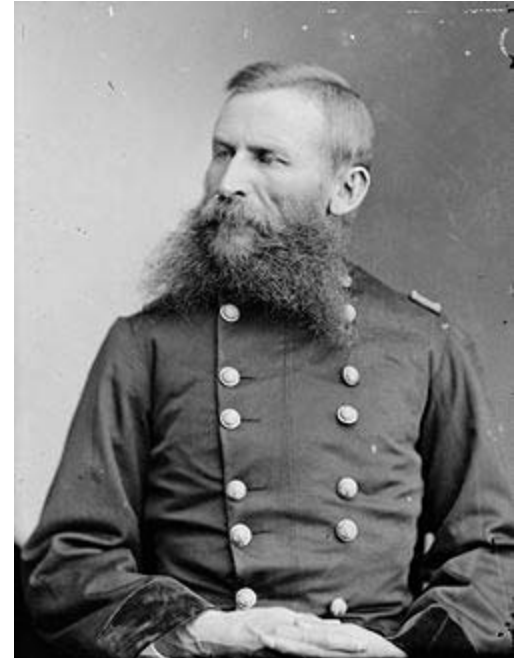
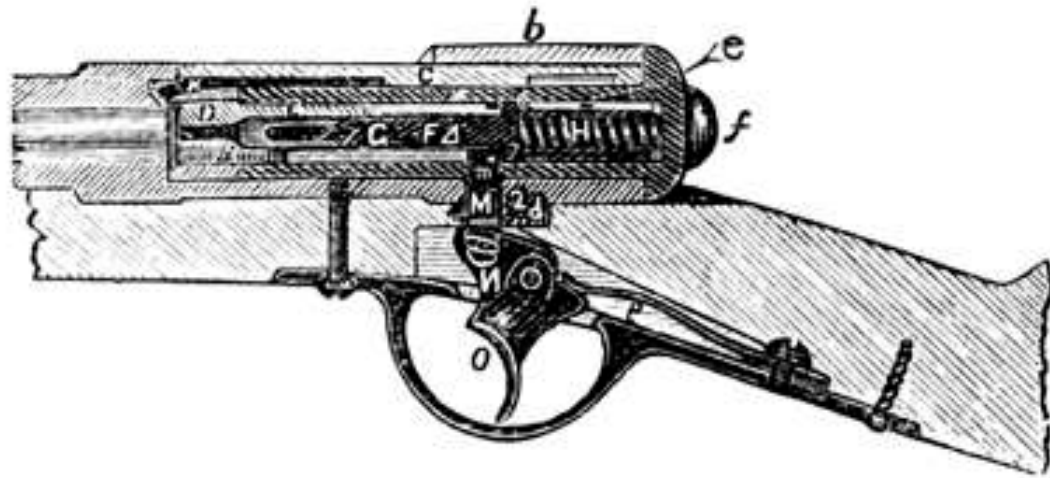
Remington Rolling-block



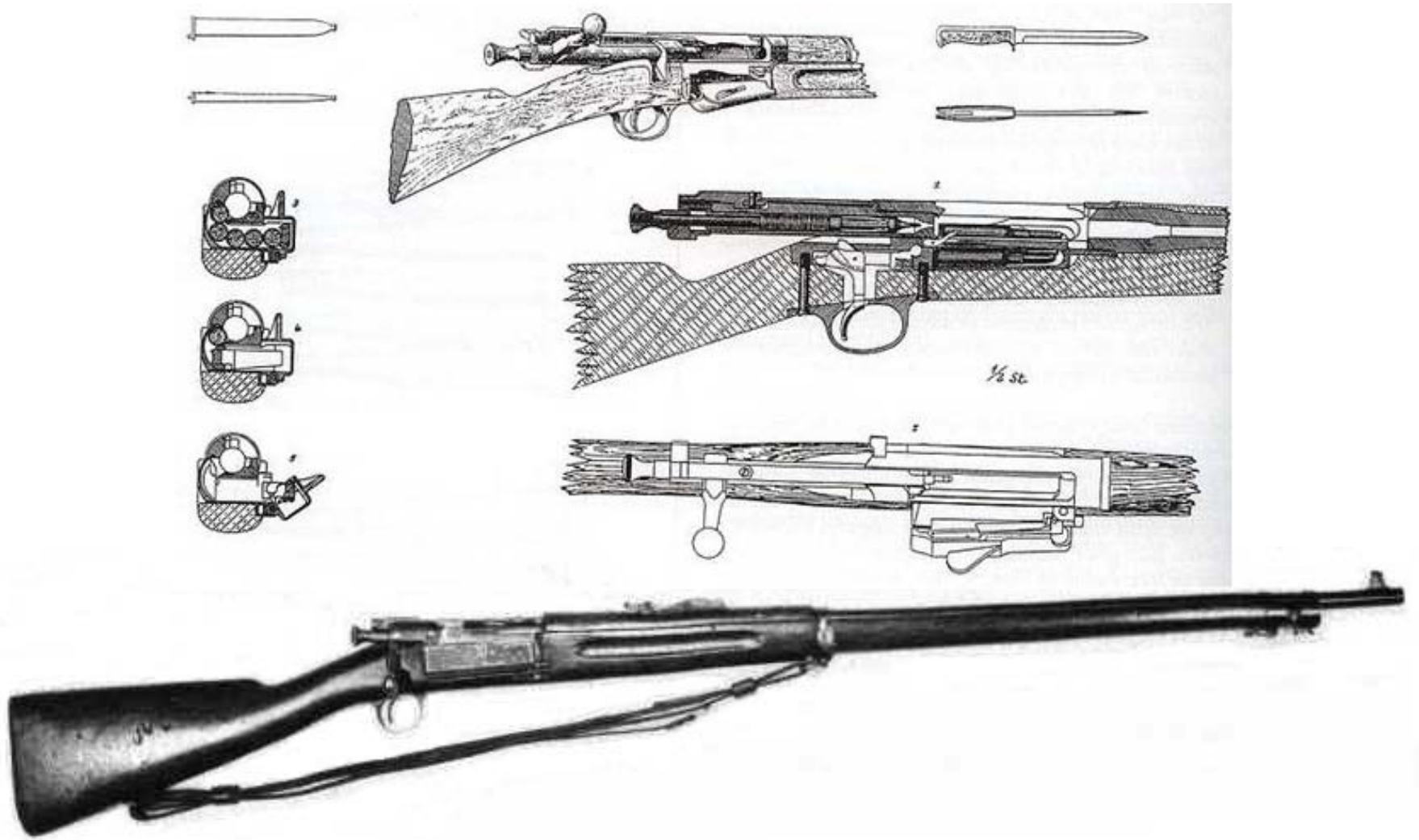
Ward-Burton Bolt-Action Rifle



Ward-Burton Bolt-Action Rifle



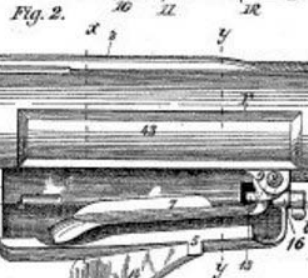
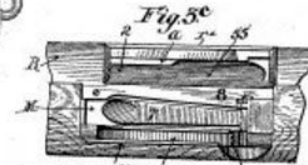
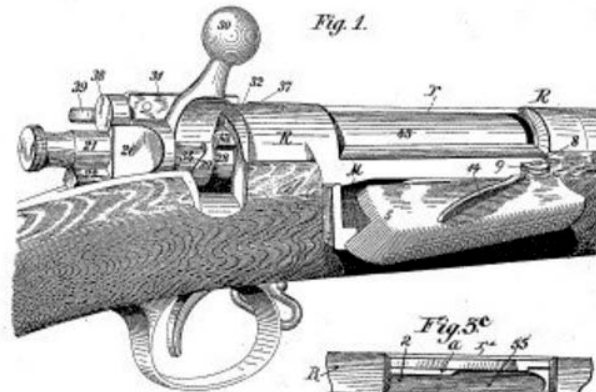
1890 – Magazine Rifle Board of Officers



Krag .30-40 –Lighter, Smaller, Faster



(Model.) 3 Sheets—Sheet 1.
O. H. J. KRAG & E. JÖRGENSEN.
MAGAZINE GUN.
Patented Feb. 21, 1893.



Witnesses:
H. G. Dietrich
J. H. Sommer

Inventors:
O. H. J. Krag, and
Erik Jørgensen.
By Henry A. [Signature] Atty.

Model 1873 Single-Action Colt .45

- Caliber .45" 250-255 gram lead ball
- Capacity six
- Muzzle Vel 860 Muzzle
- Sights Fixed – 25 yards



Double-Action Revolvers



.45 Colt Model - 1878

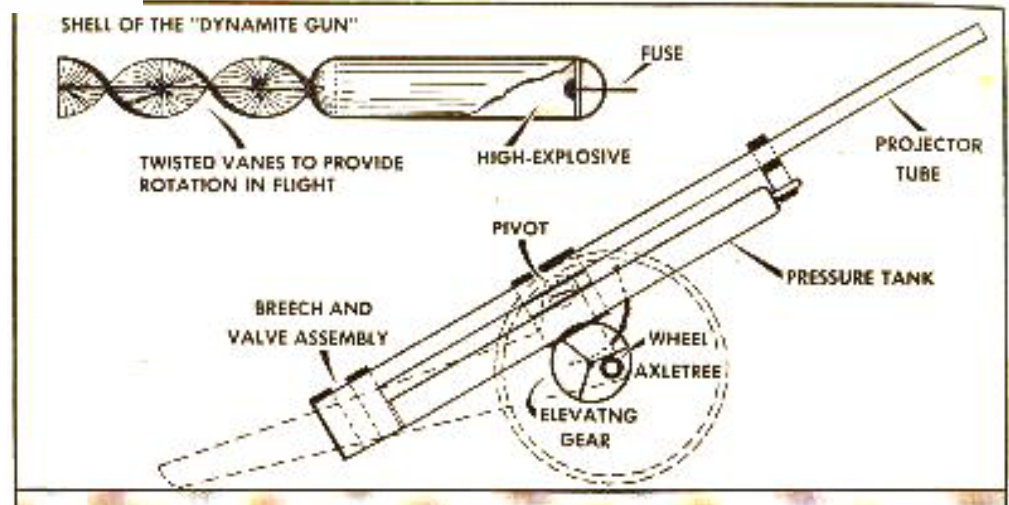


.38 Smith & Wesson Hammerless Safety - 1889

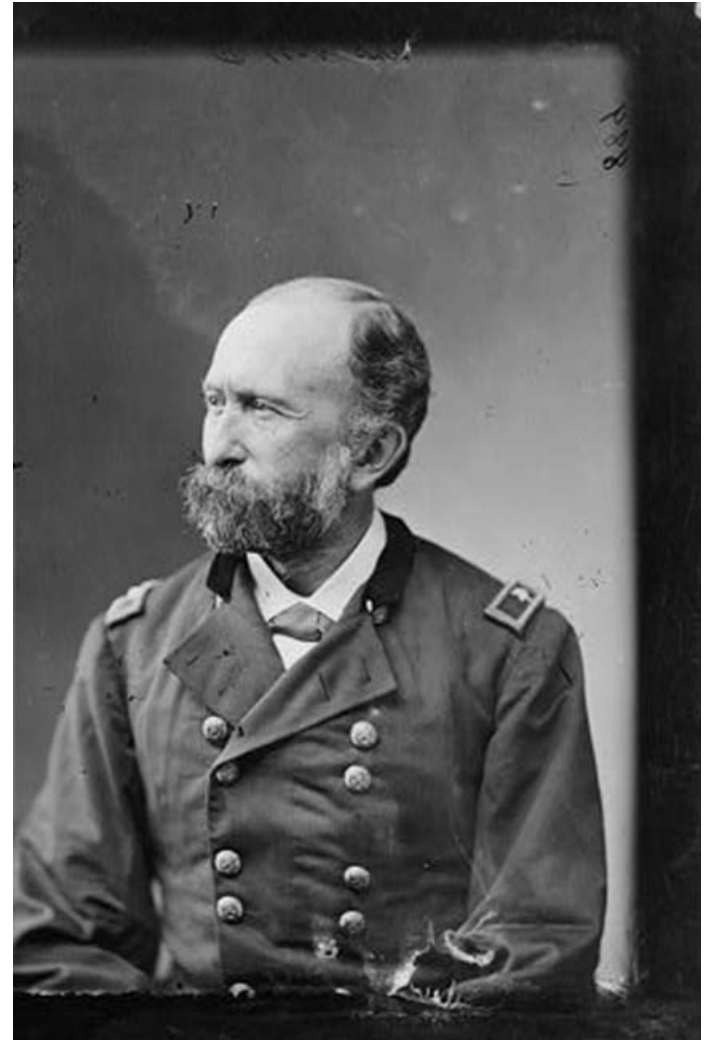
Benet's Legacy



Benet's Legacy



Benet's Grandson



Questions

