

U.S. RIFLE .30 NL

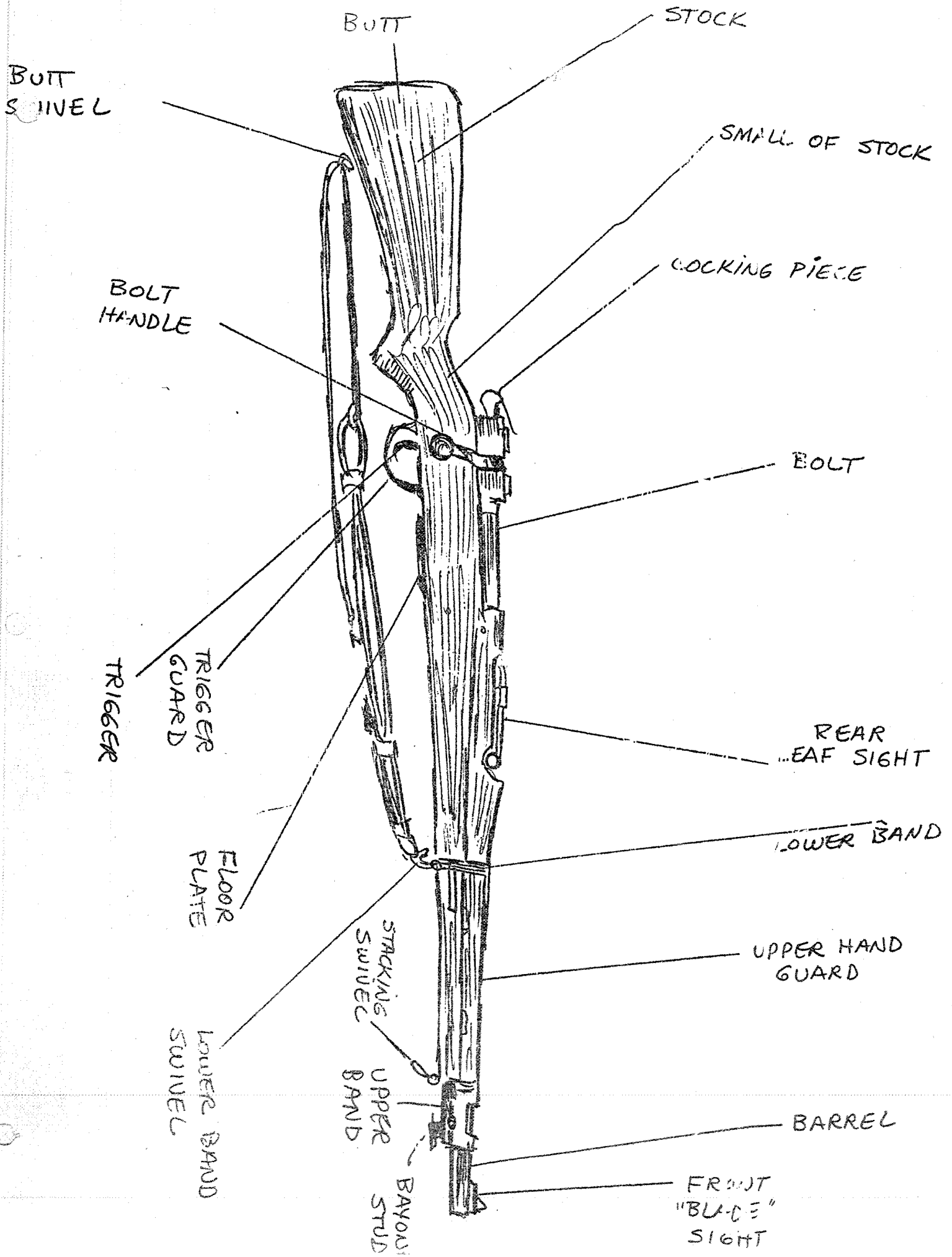
Informational Data:

CALIBER .30
MAGAZINE Fixed, box type in receiver loaded with clip
CLIP CAPACITY 8 rounds (standard ball ammunition)
BARREL LENGTH 2 feet
OVERALL LENGTH 43 9/16 inches
WEIGHT 9 pounds 10 ounces
SIGHT TYPE Aperture with adjustments from 100 to 200 yards.
OPERATION Gas
COOLING Has no cooling device

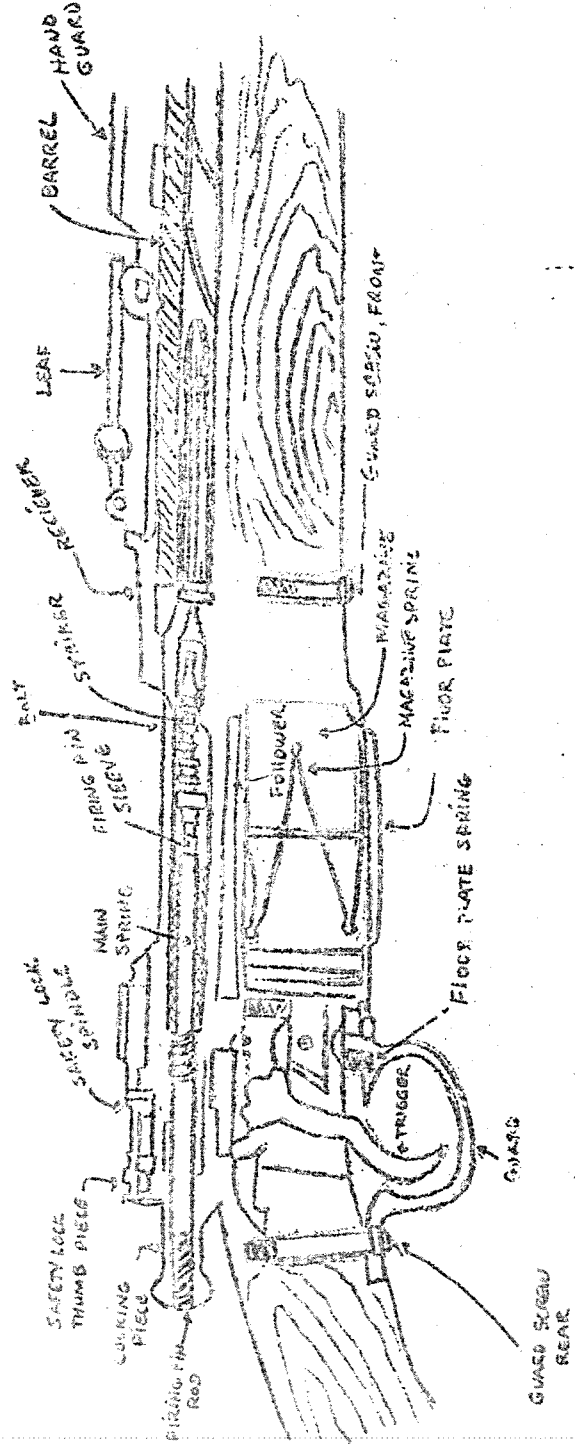
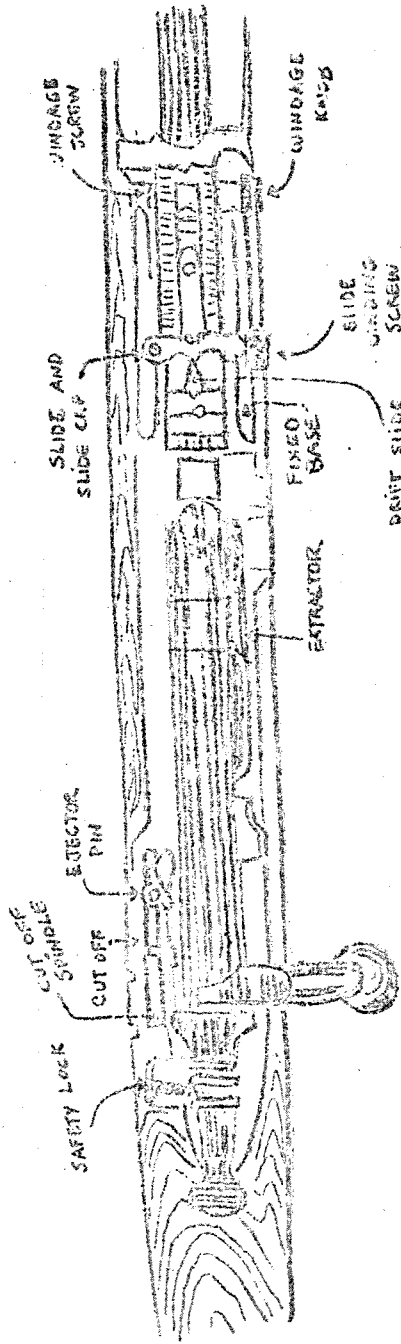
Is semi automatic with gas operated recoil feature and spring action reload.

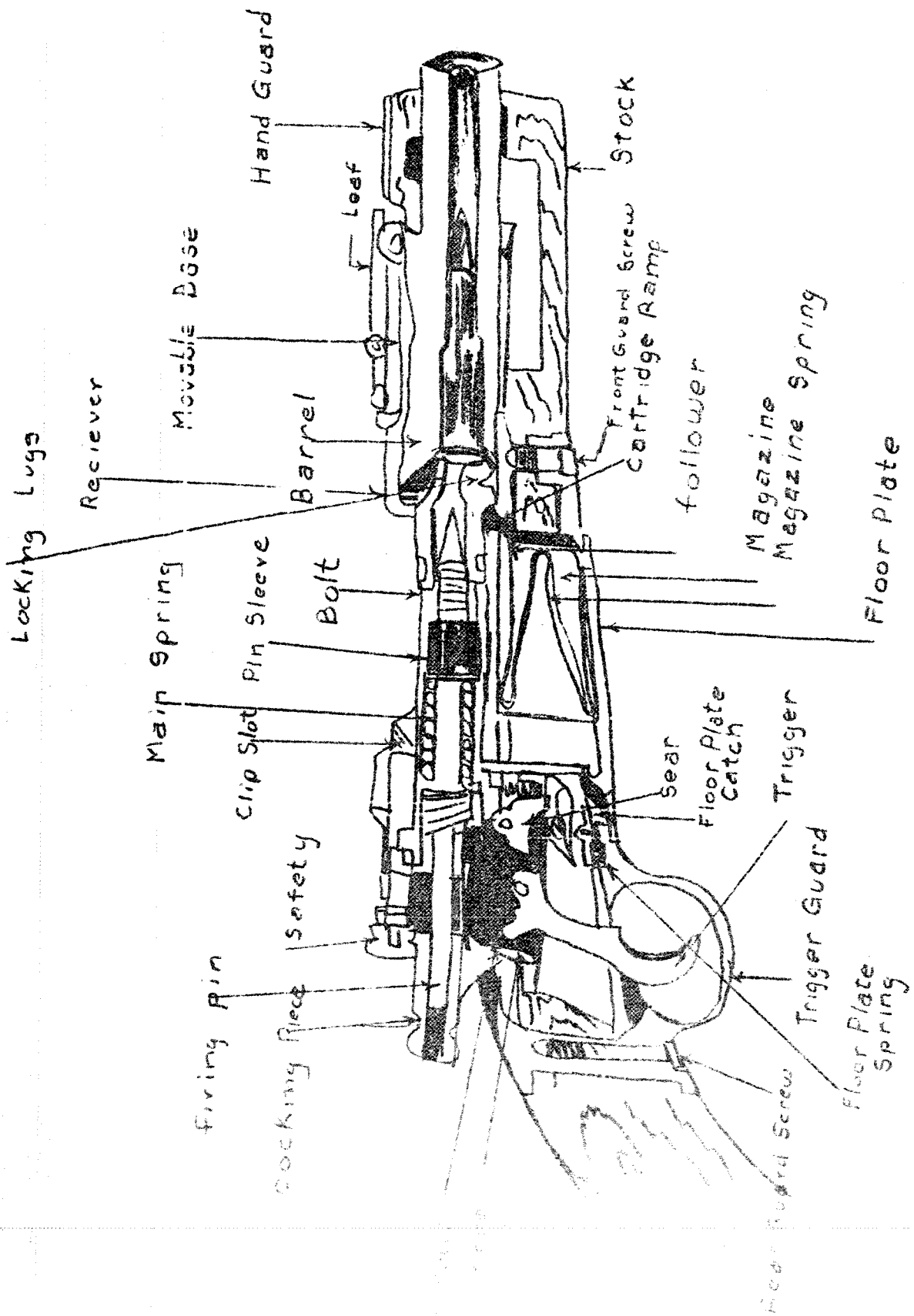
Has automatic reject of clip feature after last round has been fired.

TAKE GOOD NOTES HERE:



U.S. SPRINGFIELD .30-06 1903 RIFLE





03 Trigger (section)

U.S. SPRINGFIELD .30-06 1903 RIFLE

Caliber: .30-06, M1 and M2 cartridge

Magazine: Staggered box type in receiver, capacity 5 cartridges. When magazine is loaded, pressing down on cartridge with the left thumb will permit pushing bolt handle slightly forward over top cartridge. Magazine cut-off may now be turned to "off". An extra cartridge may then be fed by hand directly into the firing chamber.

Cartridge Clip: Holds 5 cartridges.

Weight of Rifle: 8.69 pounds. (without bayonet)

Muzzle velocity (speed): Approximately 2700 feet per second.

Striking Energy: Approximately 2680 feet pounds.

Barrel Length: 24 inches.

Overall length of Rifle: 3 feet 7 $\frac{1}{2}$ inches.

Front Sight: Fixed, blade type.

Rear Sight: When leaf is down, a rear "U" is in line with the eye. This is the battle sight, set for 530 yards range. When leaf is up, a screw adjustment will allow slide to be set in stages of 100 yards from 100 to 2350 yards. Near base of the slide is a small aperture, then an open triangle with open sight notch, and on top another sighting notch, in upper edge of leaf. As sight is elevated it is moved over to the left by a drift slide, which automatically compensates for drift of the bullet. The sight leaf has lines across it for setting sights in stages of 100 yards; while in between these stages are shorter lines for 50 yard and for 25 yard divisions.

100 to 2350 yards ranges can be obtained through aperture. Ranges of 100 to 2450 yards can be obtained through the open notch at the bottom of triangle. And ranges from 1400 to 2750 through open sighting notch in upper edge. The maximum sight range of 2850 yards can be obtained by using the open notch in the upper end of the leaf.

Most Effective Range: Up to 600 yards.

Penetration: At close ranges approximately 5 feet 10 inches of pine wood can be penetrated.
At 600 yards penetration 15 inches of board.

Trajectory: Extremely flat, only 1/2 inch at 100 yards, 6" at 300 yds.

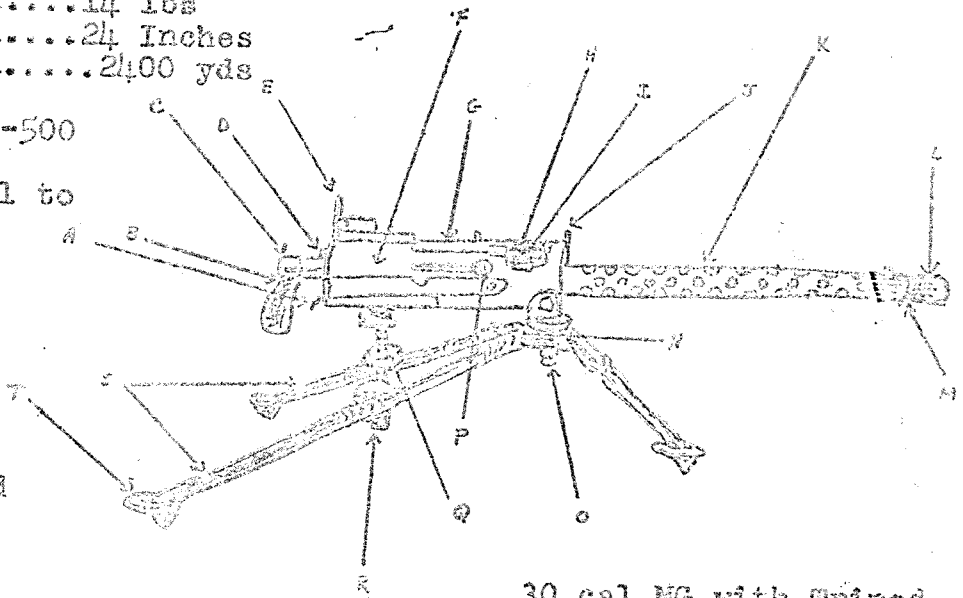
Cut Off: Left side receiver. Down-feed direct into chamber single shot.
Up - feed from magazine.

Safety: Thumb piece on rear end of bolt. When rifle is cocked, safety is switched over to the right for "Safe". Normal firing position to the left.

.30 Cal Light Machine Gun

I General Data:

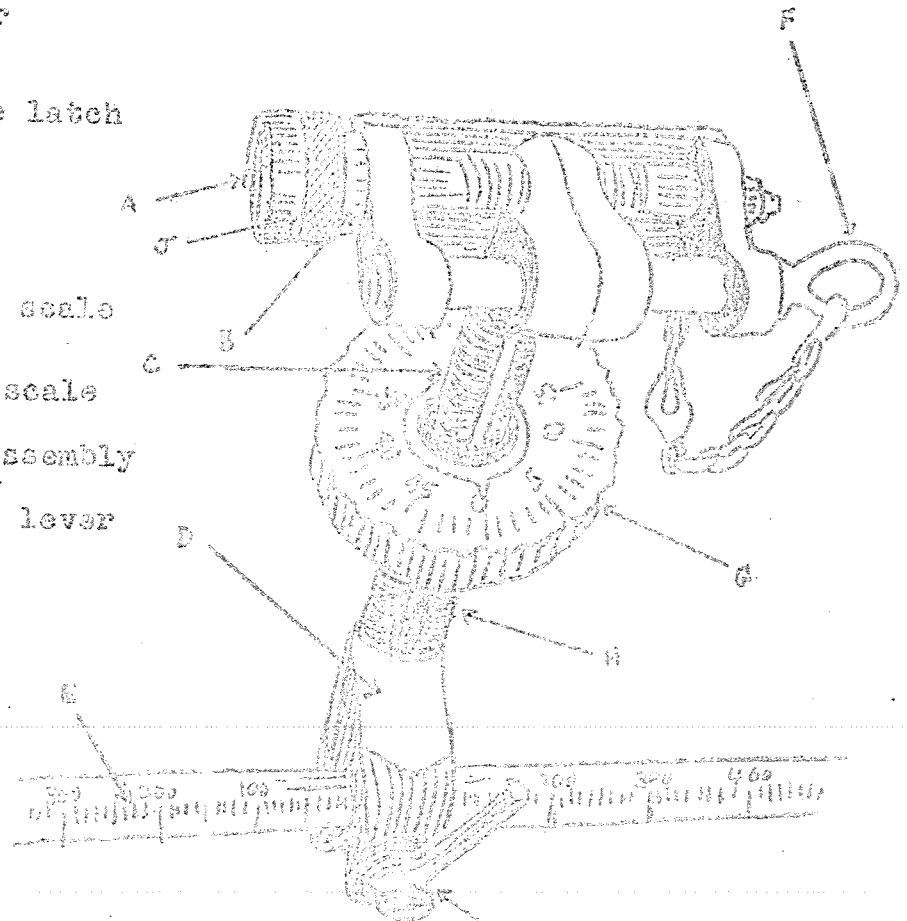
1. Weight...31 lbs
2. Weight of tripod...14 lbs
3. Length of barrel....24 Inches
4. Sight Graduation....2400 yds
5. Cyclic rate of fire (Rpm)...400-500
6. air cooled
7. Very heavy barrel to help keep down heat.



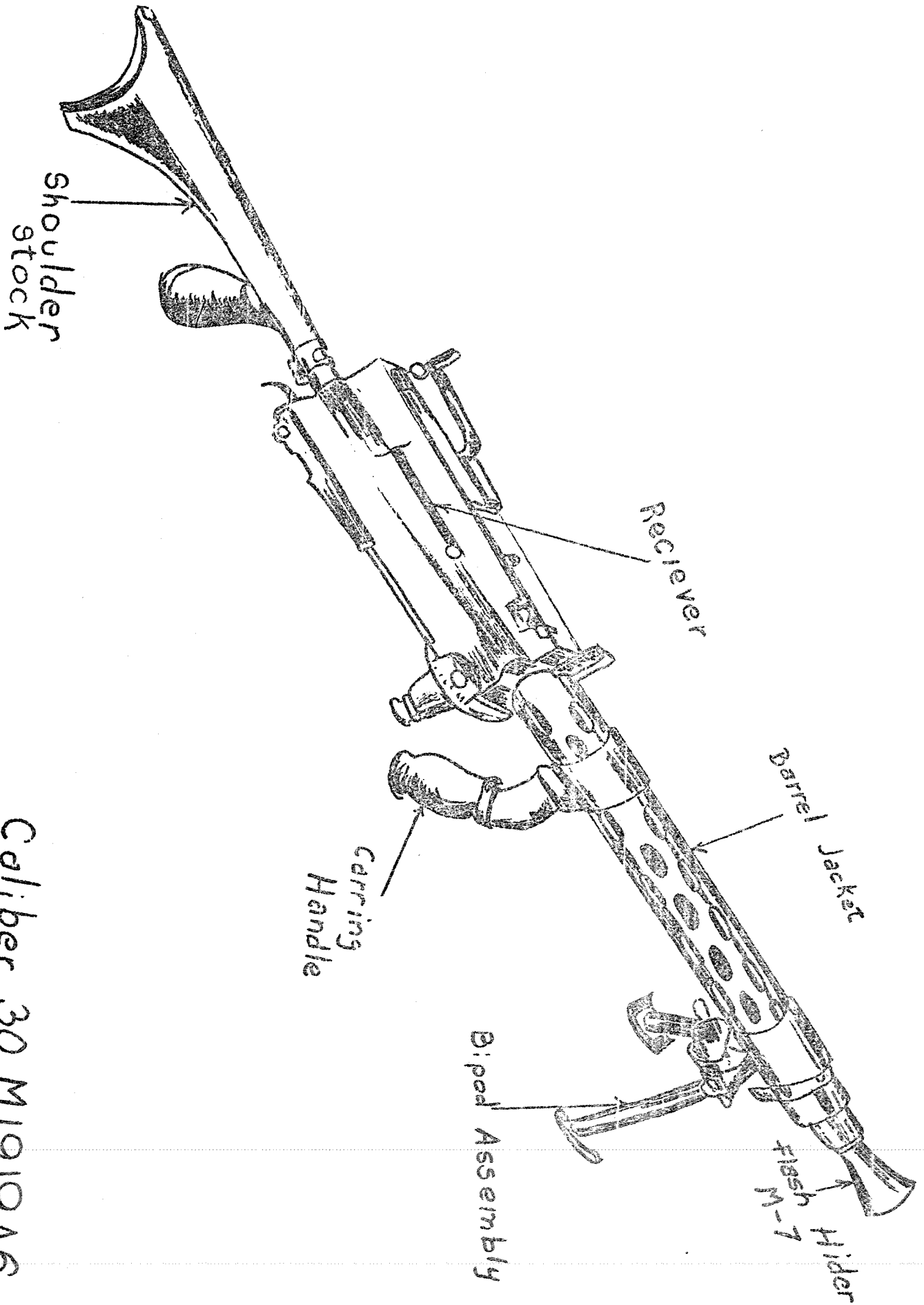
.30 cal MG with Tripod

- A. Trigger
- B. Grip
- C. Buffer tube
- D. Driving Spring rod
- E. Rear Sight
- F. Receiver
- G. Cover & Latch
- H. Belt Feed Slide
- I. Cover bolt
- J. Front Sight
- K. Barrel jacket
- L. Flash hider
- M. Front barrel bearing and plug
- N. Tripod Head
- O. Gun pintle latch lever
- P. Bolt Handle
- Q. Elevating handwheel
- R. Traversing bar sleeve latch
- S. Trail legs
- T. Slide Shoe

- A. Traversing screw
- B. Traversing Micrometer scale
- C. Upper elevating screw
- D. Traversing slide
- E. Traversing Bar & Bar scale
- F. Elevating pin
- G. Elevating Handwheel assembly
- H. Lower elevating screw
- I. Traversing slide lock lever
- J. Traversing handwheel



Elevating & Traversing Mechanism



Caliber .30, M1919A6

ARTILLERY

- A. Artillery is a vital part of the army.
1. The missiles whether guided or shot from artillery pieces are divided into three groups:
 - a. light
 - b. medium
 - c. heavy
- B. Two different pieces of artillery are:
1. towed
 2. self-propelled
- C. The missile
1. projectile (lead slug in the missile)
 2. charge inside the casing (propellant)
- D. The heavier the weapon the bigger the organization that handles it (division etc.)
- E. Artillery is not a front line weapon.
- F. Rockets
1. used far behind lines
 - a. honest john
 - b. lacrosse
 - c. coporal
 - d. redstone
 1. biggest rocket.

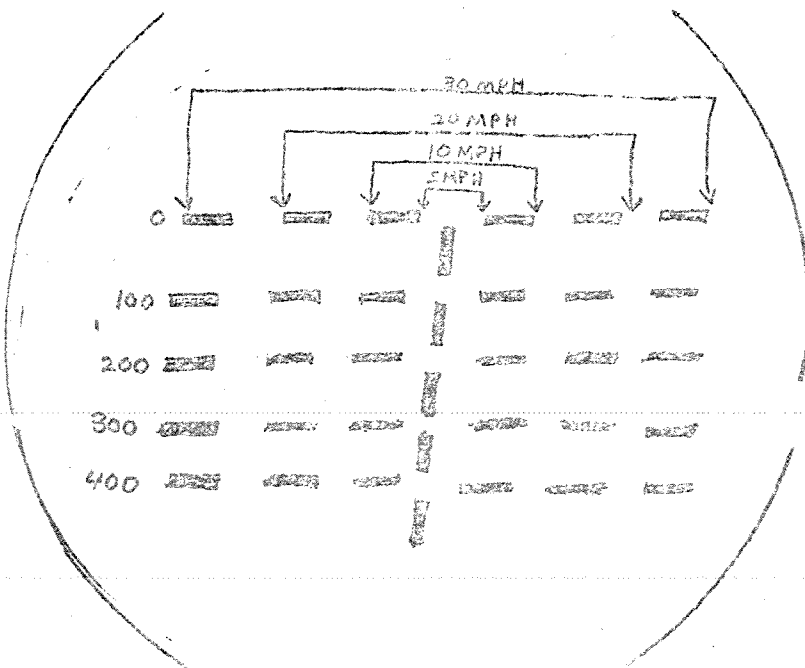
3.5 ROCKET LAUNCHER

I Construction:

- A. Made of light-weight aluminum alloy.
- B. Assembled length - 60 inches
- C. Weight - 13 pounds
- D. Type of Firing Mechanism - Electrical

II Nomenclature detail:

- A. Provides close-in antitank support by igniting a rocket which is a self-propelled projectile consisting of a warhead, fuze, and rocket motor and guiding it on its flight towards the target.
- B. Principle of the Venturi Nozzle: (Take notes)
- C. Sighted on the target by a reflecting sight assembly. A Magnet~~o~~ type firing mechanism, located in the trigger grips, provides the current for firing the rocket.
- D. Firing Positions: Shoulder, Kneeling, prone positions.
- E. Type of Ammunition used: Heat and Practice
- F. Maximum Range: 900 yards
- G. Muzzle Velocity: 334 Feet per second
- H. Great "Back Blast" Danger, is a weakness
- I. Operated by Gunner and Loader.



Ladder or Tree Type
Reticle Pattern

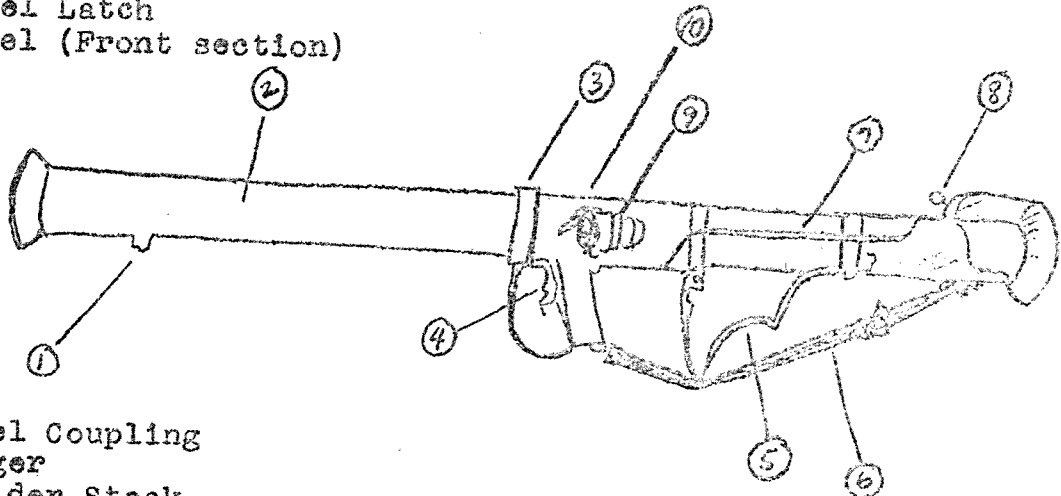


A.

Nomenclature:

3.5 Rocket Launcher

- 1. Barrel Latch
- 2. Barrel (Front section)



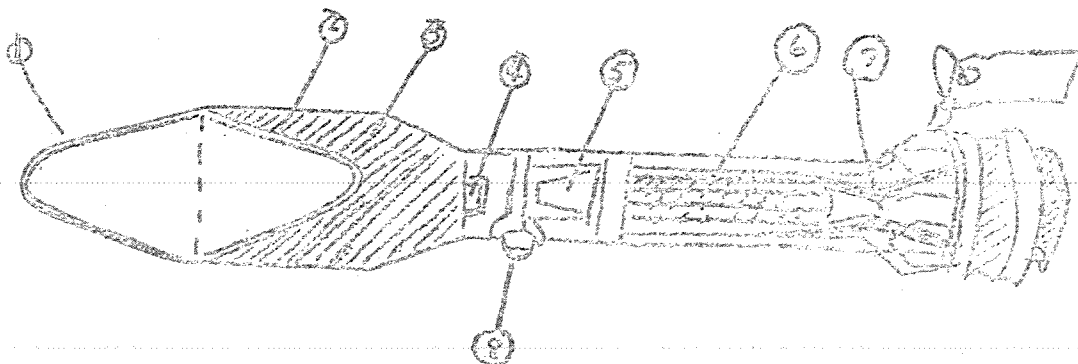
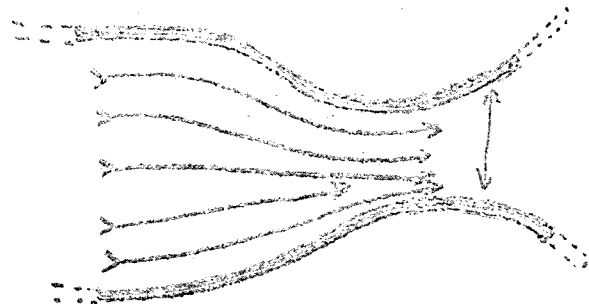
- 3. Barrel Coupling
- 4. Trigger
- 5. Shoulder Stock
- 6. Carrying Sling
- 7. Contact Lead Cable
- 8. Control Handle
- 9. Reflecting Sight Assembly
- 10. Elevation Plate

B.

Rocket Nomenclature:

- 1. Hollow nose
- 2. Copper cone
- 3. Explosive Charge
- 4. Booster
- 5. Plunger
- 6. Propellant
- 7. Venturi Nozzle

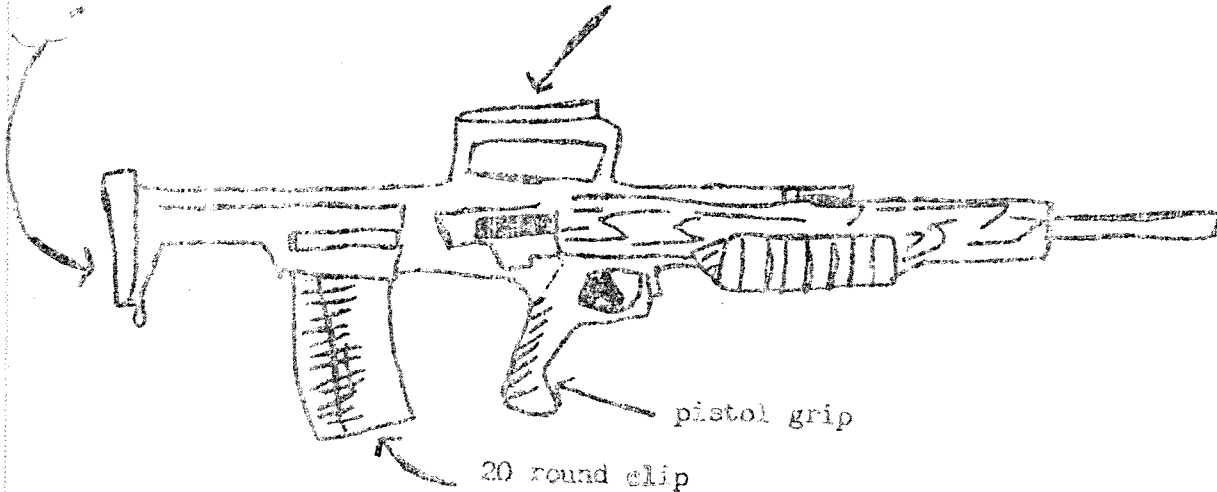
VENTURI NOZZLE :



UNUSUAL WEAPONS OF THE WORLD

Modified Butt:

Optical sight



- Caliber: 7-mm (short) .280
- Operations: Gas thru pistol operation, conventional
- Overall length: 45 inches
- Weight: 8 lbs.
- Magazine capacity: 20 rounds, staggered box type magazine, detachable.
- Change lever stud: Right hand side above pistol grip
- Cocking handle: Upper right hand side of weapon above molded forestock Well forward of trigger guard for right hand support while firing.
- Butt: Suppressed straight line type. Very close shoulder support. Molded forestock to protect hand from barrel heat. Pistol grip to rear of trigger guard for right hand support while firing.
- Mechanism design: Unconventional ejection opening at level of firers face.
- Trigger position: Well forward of magazine, unconventional (Note: Trigger position being level with barrel produces danger of firer burning forefinger during sustained firing.
- Ejection: Close to firers face. Can be fired by right shoulder only.
- Note: This weapon was not accepted by the NATO forces due to its obvious weaknesses. Plus these it has about the same striking energy of the .30 cal M1 Carbine. Cost per weapon - \$100.00; Sight is not telescopic and firer cannot place face close to the barrel, impractical in bad weather.

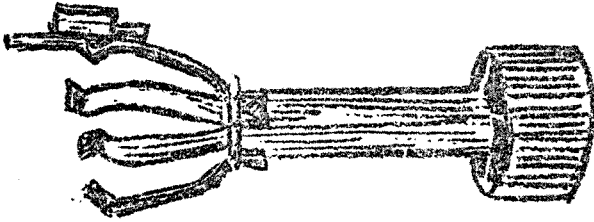
RIFLE GRENADES

I Equipment necessary for use:

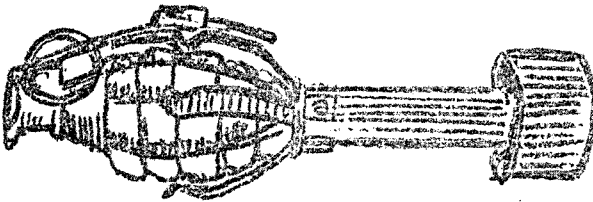
- A. Grenade launcher
- B. Crimped (blank) cartridge
- C. Sighting device

II Used against armored vehicles, lightly emplaced weapons and crews, group enemy personnel. May be fired at point blank range up to 250 yards.

RIFLE GRENADE ADAPTER



RIFLE GRENADE ADAPTER WITH HAND GRENADE IN PLACE



III Types of Rifle Grenades :

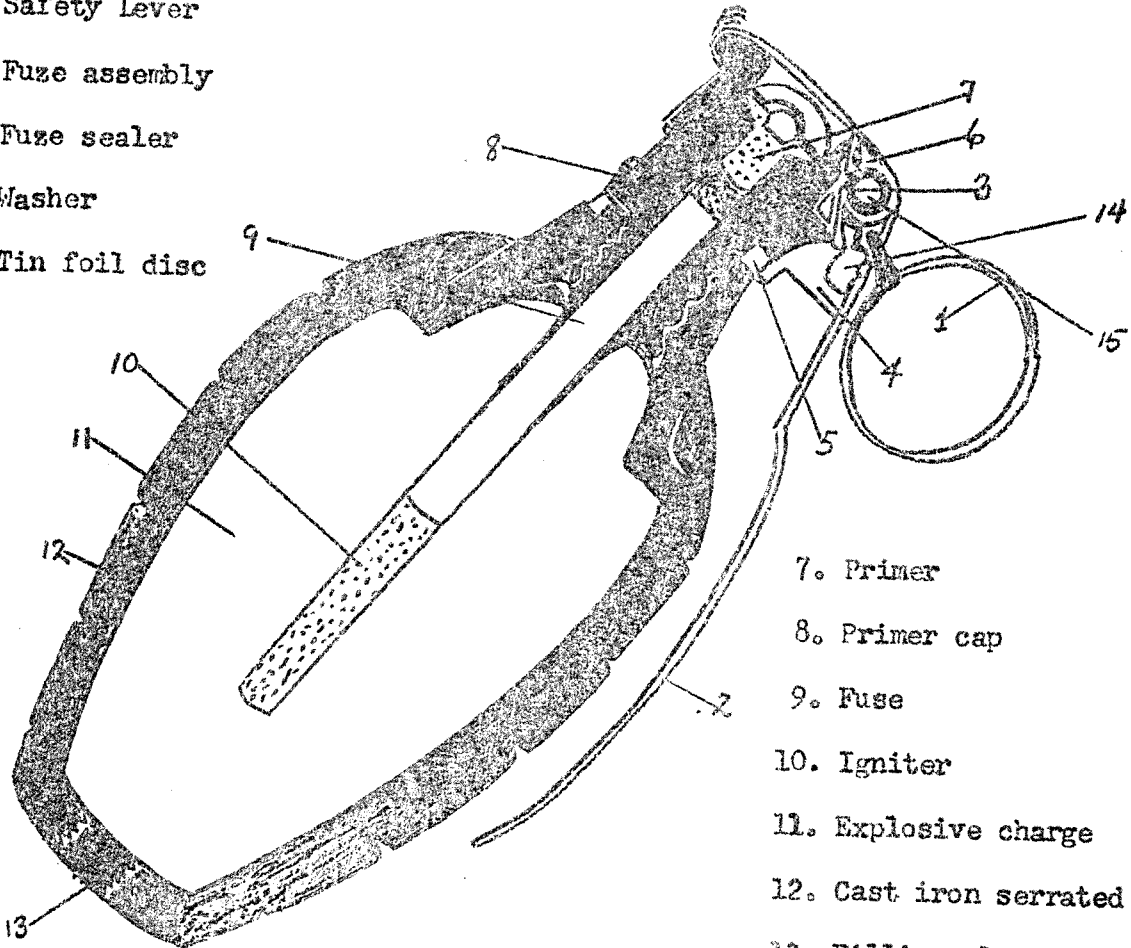
- A. High Explosive - fragmentation
- B. Smoke Grenades - White phosphorus etc.
- C. Pyrotechnics - signal grenades etc.

IV Safety precautions using Rifle Grenades:

- A. Do not drop a grenade after the safety pin has been removed.
- B. Do not use ball ammo. or ordinary blanks to propel grenades.
- C. Do not tamper with duds.
- D. Do not fire rifle from the shoulder when using the auxiliary cartridge.

HAND GRENADE

1. Safety Pin Ring
2. Safety Lever
3. Fuze assembly
4. Fuze sealer
5. Washer
6. Tin foil disc



7. Primer
8. Primer cap
9. Fuse
10. Igniter
11. Explosive charge
12. Cast iron serrated body
13. Filling plug
14. Striker
15. Striker spring