FIREARMS

Definition :-

- 1 BALLISTICS Study of notion behaviour and effect of projectile and forearm.
- and ammunition for the purpose of law.
- 3 FIREARM Et is a deuire used to hurl projectile on projectiles nuth force.
- (ARMS ACT , 1959

A/c to Domes Act 1959, +9 a foreasim means of any description, designed or adapted to discharge a projectile or projectiles of any kind by the action of any emplorine of other forms of energy and includes-

Artillery, hand grenades, suct pistols on measons of any kind, designed on adapted for the discharge of any noxuous liquid, gas on other such things.

Accessories for any such firearm designed or adapted to diminsh the noise or flesh caused by the foung thereof.

Parts of and machinery for manufacturing firewines and contridges platforms and appliances for mounting, transporting and servicing artillery.

HISTORY AND DEVELOPMENT OF FIREARMS

-) GUN POWDER
 - . It was invented in 1260 in China
 - Compaintion KNO3 (Polassium nitrate) = 75%.

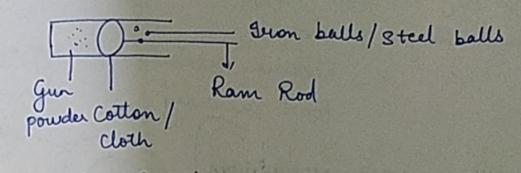
 Charcoal = 15%.

 Sulphur = 10%.
 - . Also known as Black pouder.
- ROMAN CANDLES

O: O: Gun powder Ball

The first use of Gun Pouder was done in Roman Candles. It was used by Roman people just for fun.

Roman candles are a hollow mooden tube in which one end is open and other is closed. The gun pouder is inserted through the open end and is known as Muzzle end there firearm were known as Muzzle Loaders.

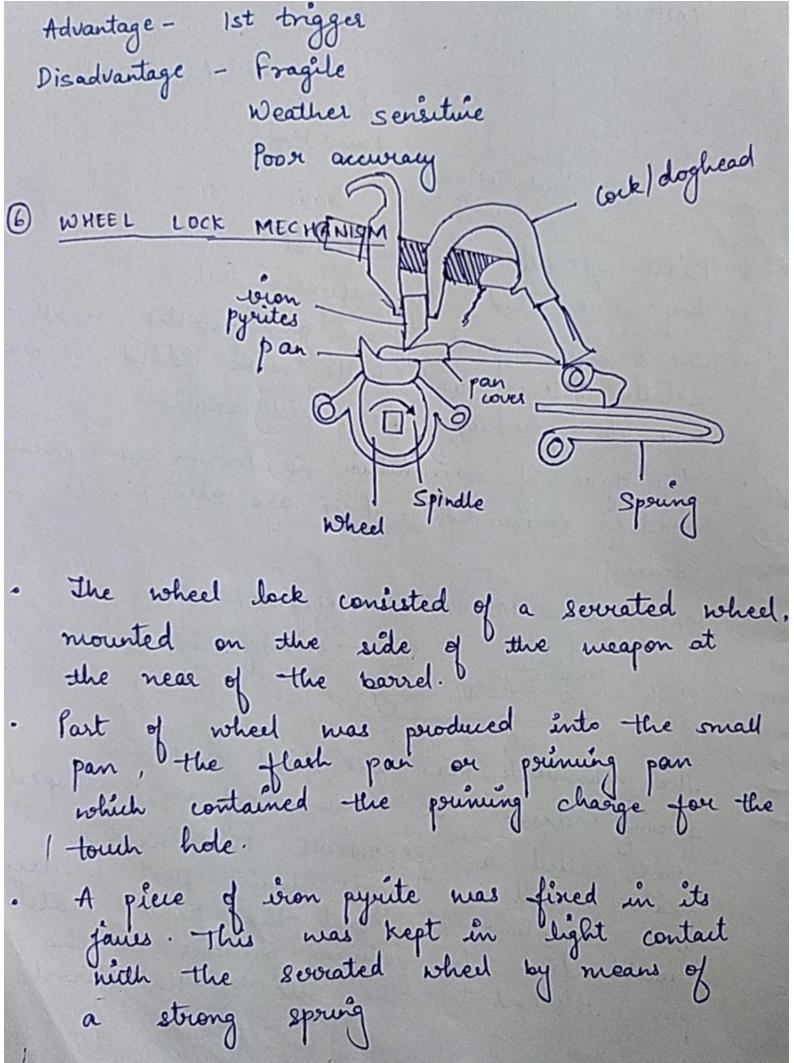


- . First metallic firearm used.
- o They were made by met allie tube.

 On canons, apart from gun pourder, small metallie pièces and balle were added. It was done to produce noise and snoke.
- · This type of amnumition is known as Separate Loading Ammunition. These are also Muzde Loaders.
- (5) MATCH LOCK MECHANISM FIREARMS

Plash pan cover P D burning wick

The matchlock was the first mechanical foring device. It consisted of an S-shaped arm, called a SERPENTINE, that held a the sexpertine so that the lighted match pan attached to the side of the barrel.



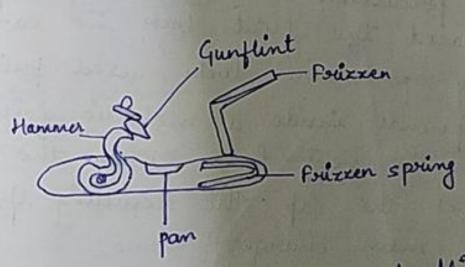
Sparks produced from the fuition of the printed on the servated wheel ignited the primary charge which in turn ignited the main powder charge and fired the meapon.

Detter locktune
better accuracy
Less meather senistive

cons - feragile os

very exp. to manufacture

FLINT LOCK

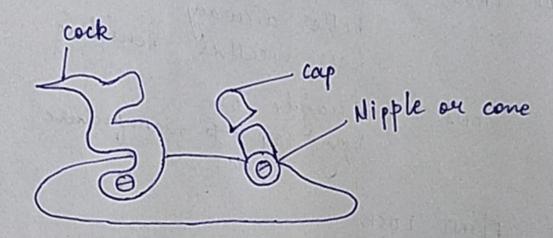


In flintlock guns, a piece of flint mas fined to a jaw shaped device, like an ordinary gun-hammer which could be operated with a trigger.

On pressing the tougger, the hannel holding the flint would fall and istuke a metal piece kept over the

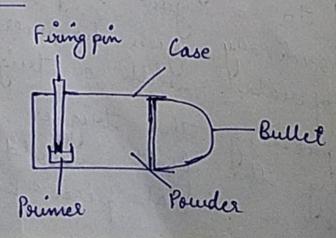
flash pan. The spark so produced lighted the charge in the same way as in the wheel lock system.

PERCUSSION SYSTEM



The percussion lock also called caplock replaced the flint lock in early 1800s. Early percussion locks used priming compounds inside a metallic foil cap placed over the vert hole. When the hammer strikes the cap, the resulting spark ignites the main charge.

PIN - FIRE SYSTEM



In this system, the percussion cup was inside the cartriage case while a pin, which nested on the percussion cup, protouded through the side of the cc. striking the pin with the weapon's hancrer drove the pin into the priming compound causing it to detonate and so ignite the main propellant charge.

THE RIMFIRE SYSTEM

Fruing pin hits here Case Pourder

Case Pourder

The rimfire cartridge is a thin melled cartridge with a hollow flanged rum. Into this rum is spun a small quantity of a puning compound. Guesting the rum with the fring fin causes the princing compound to explode, thus igniting the propellant inside the case.

(1) CENTRE FIRE SYSTEM

In centre fire ammunition, only the primer cup needed to be soft enough to be outlied by the firing pin.

