

# LEARN with DAWN

## You too Countryman, can be a Freedom Fighter

This article deals with the manufacture and use of simple home made explosives. Firstly we will show two types of home made grenades.

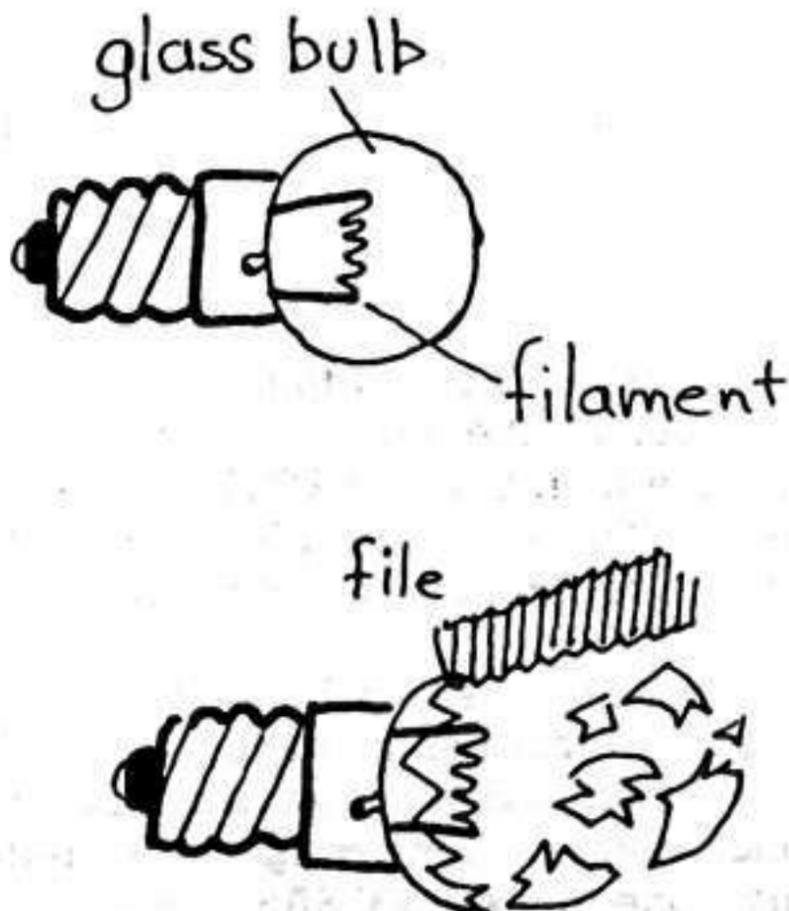
- (a) Electric type
- (b) Chemical type

### Requirements

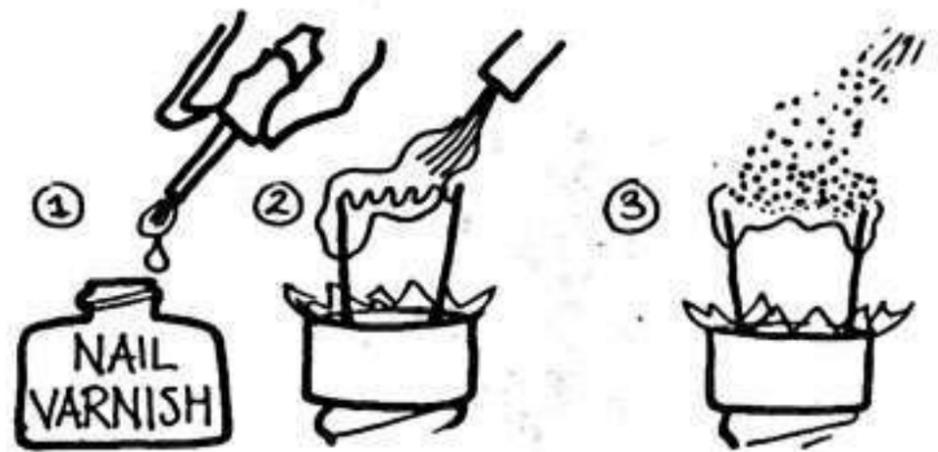
\*Matches, safety fuse, blasting cap, explosive charge, Hack saw blade, battery.

#### (a) Electric Igniters:

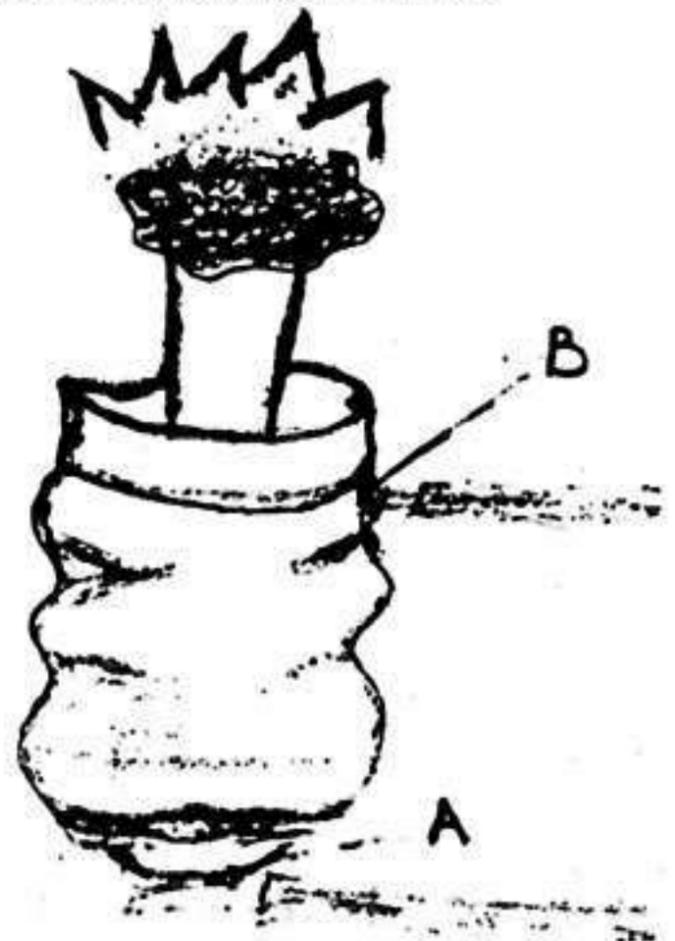
There are a number of ways to make electric igniters. One of the simplest ways is with a small light-bulb, the sort used in electric torches. With an iron file, gently break the glass bulb open, taking care not to damage the wire *filament* (i.e. the part that glows).

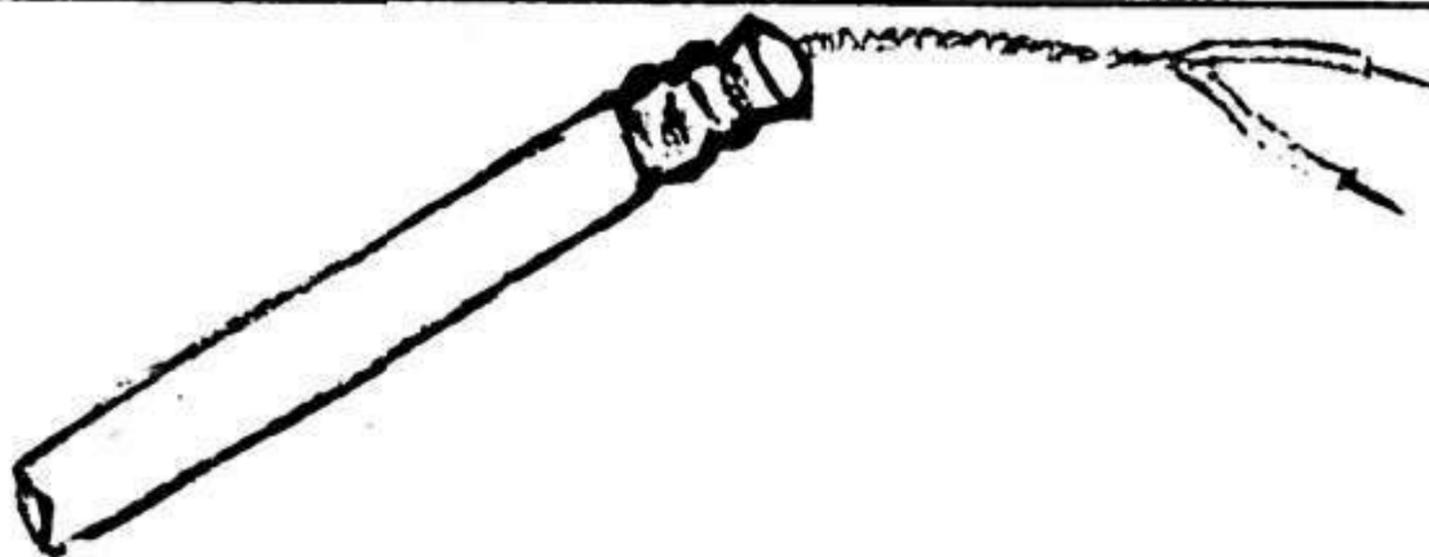


Remove the broken glass and fix your incendiary mixture (potassium chlorate and sugar or powdered match-heads) to the filament. The best way of doing this is by using a nail varnish brush dipped in colourless nail varnish which acts like glue, and sprinkling the powder gently over the filament. Next, using a small sol-



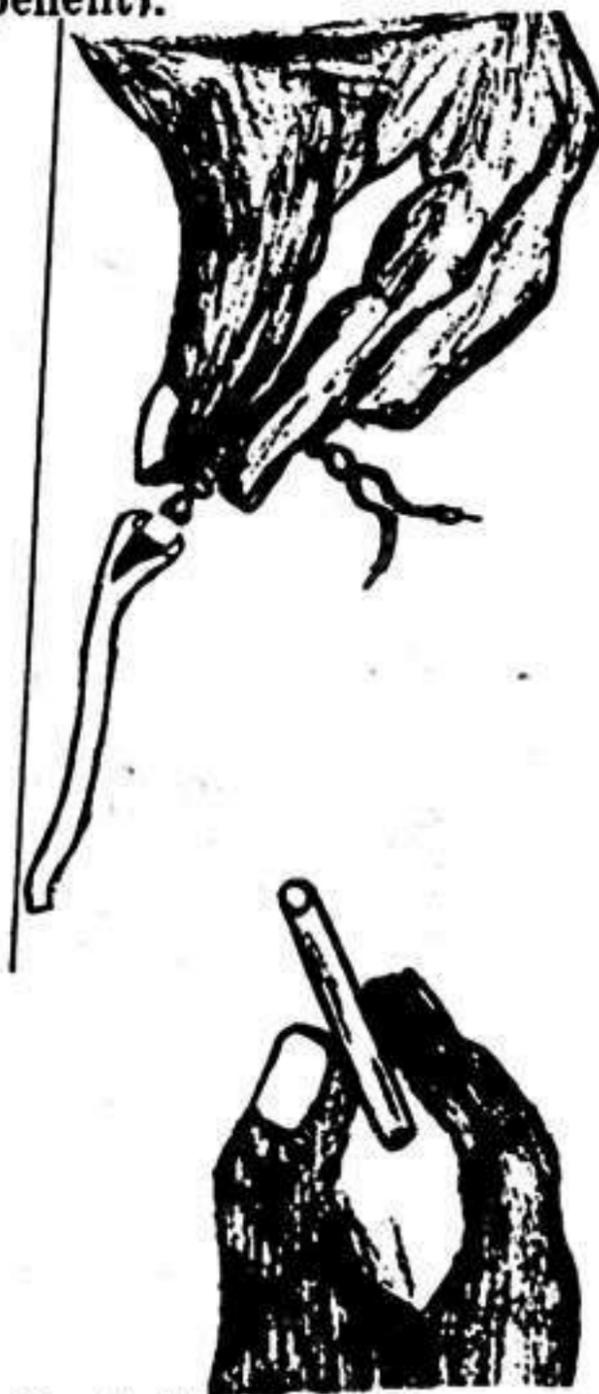
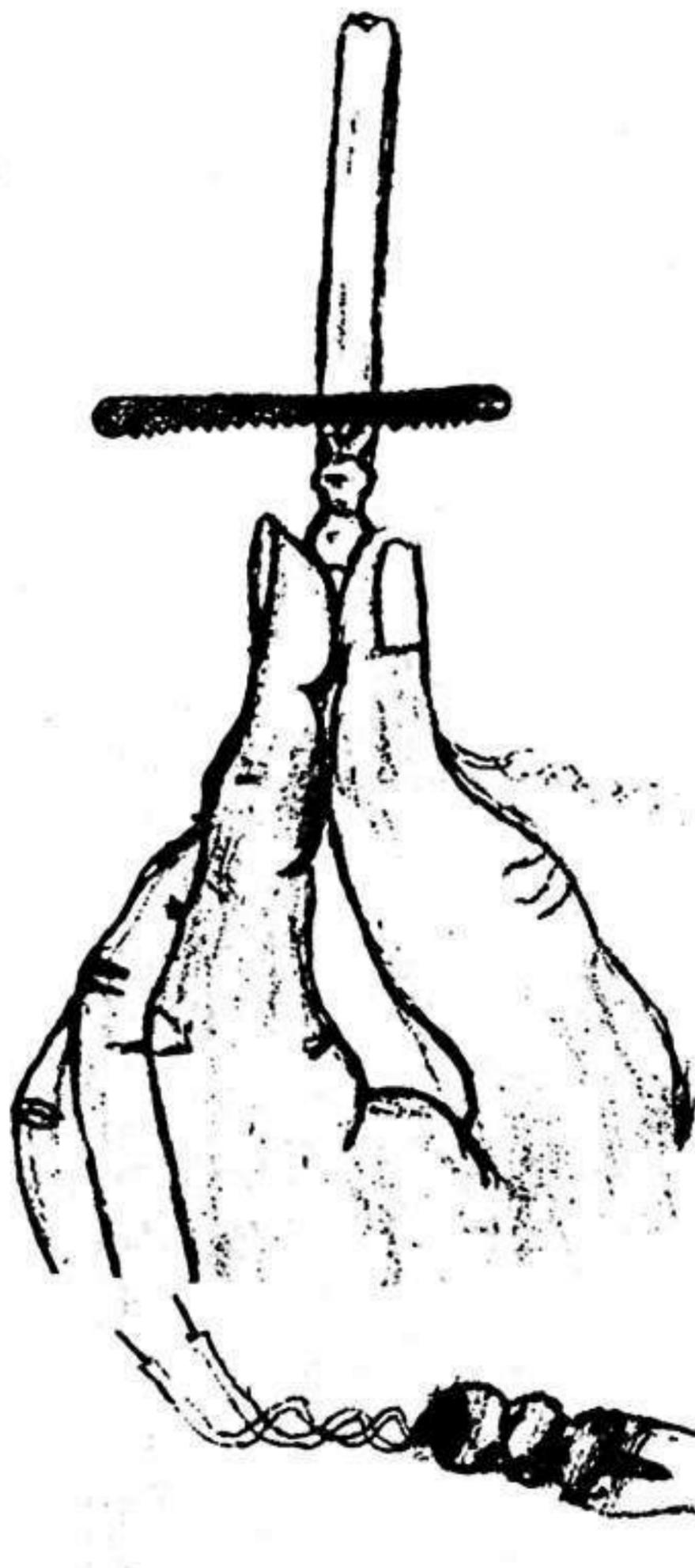
dering iron, solder two pieces of thin electric wire, each about 15 cm long, onto the bulb. One wire at the tip A, and the other on the metal side B.





Use a hack blade and around the pinched part of the plastic plug of an electric detonator, after pulling out the filament (squib) of an electric detonator.

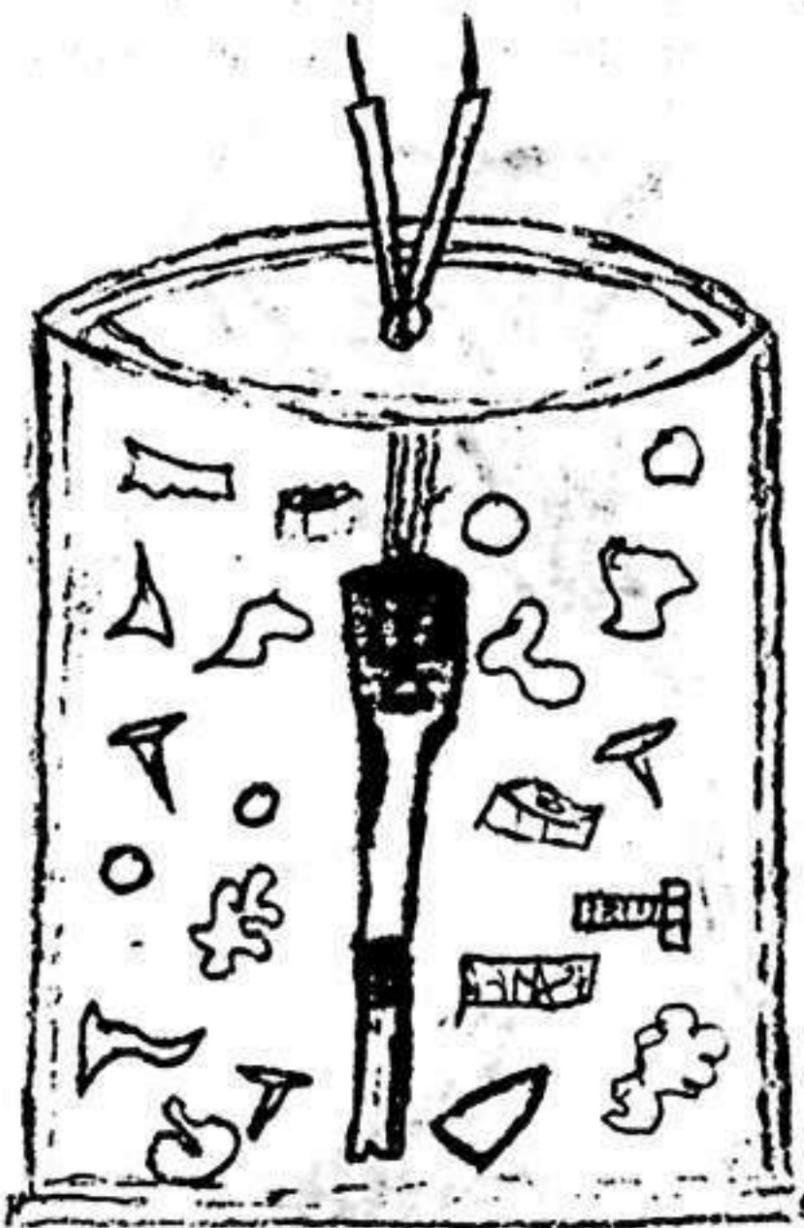
Insert it to a safety fuse so that it is directly attached to the black gun powder, (propellent).



Insulating tape is placed around as to keep the joint firm, and the blasting cap pinched to a 3-4cm long safety fuse.

## Our grenade is ready to be initiated

Our grenade is ready to be initiated and thrown at the enemy by means of a 1.5v battery, which must be attached to the wires exposed through the lid. The charge contained can be TNT or home made explosives of 50 per cent of  $\text{NH}_4\text{NO}_3$  + 50 per cent Al — that



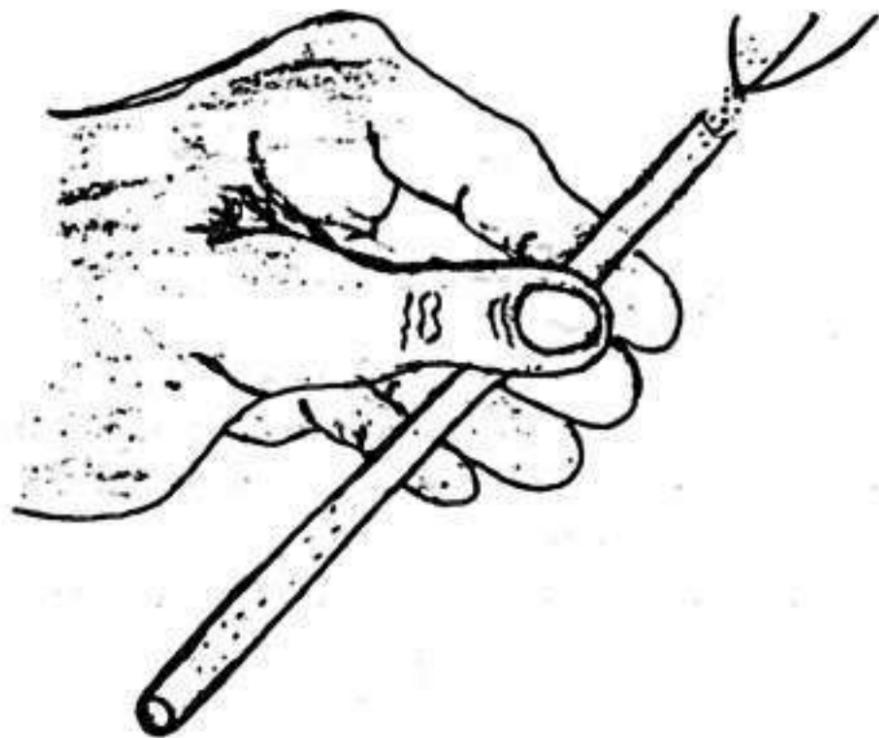
is equal parts of Ammonium Nitrate (Fertilizer) plus aluminium powder (silver point powder).

### How to make a safety Fuse

Mix two teaspoonful of  $\text{KNO}_3$  (potassium Nitrate) /salt petre used for treating meat, plus one teaspoon Al (Aluminium powder /silver paint plus half teaspoon — S. (Flowers of Sulphur/medical laxative) plus — C. (Carbon/charcoal).

Formula:  $50\% \text{KNO}_3 + 25\% \text{Al} + 15\% \text{S} + 10\% \text{C}$ .

If this mixture is poured into a



drinking straw until it is full, and one initiates it, it will burn just like the fuse used in fire crackers. This is due to black home-made powder inside the straw.

