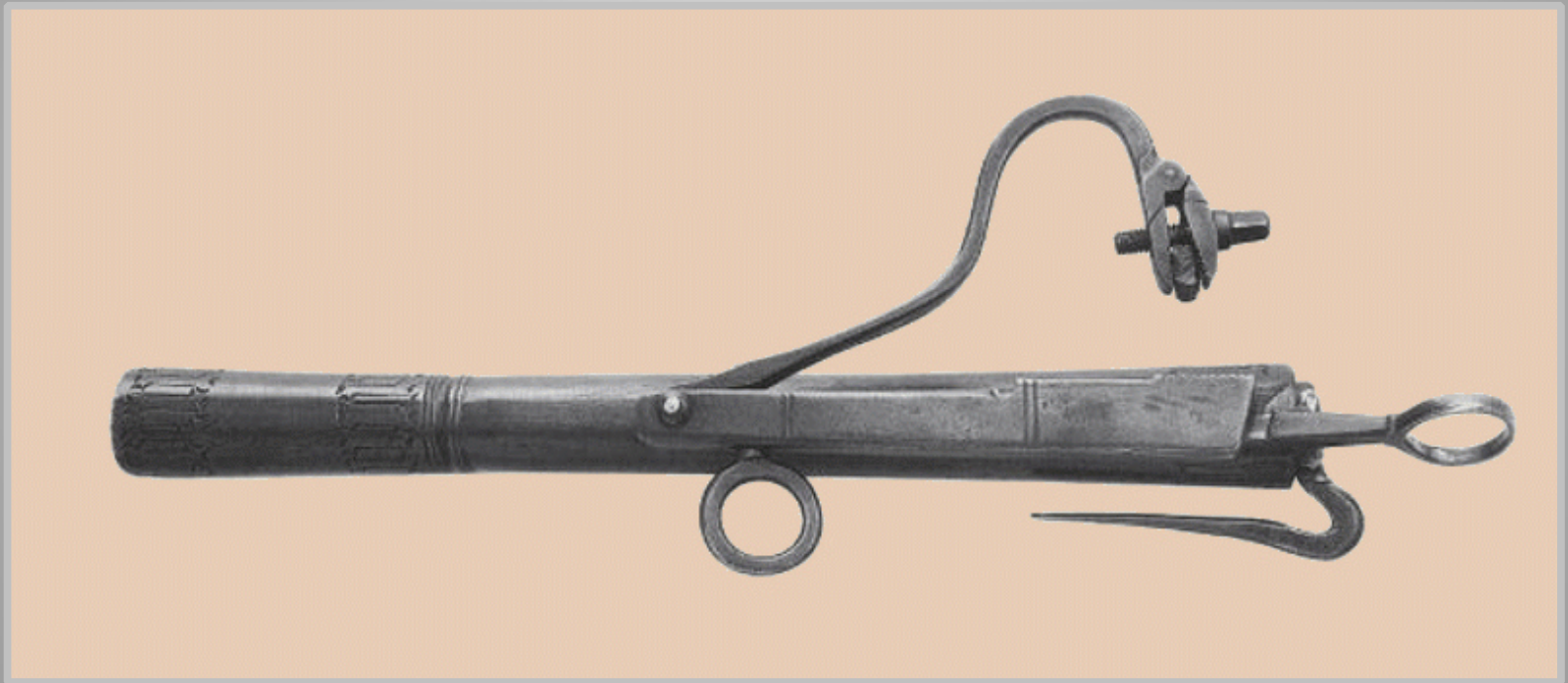
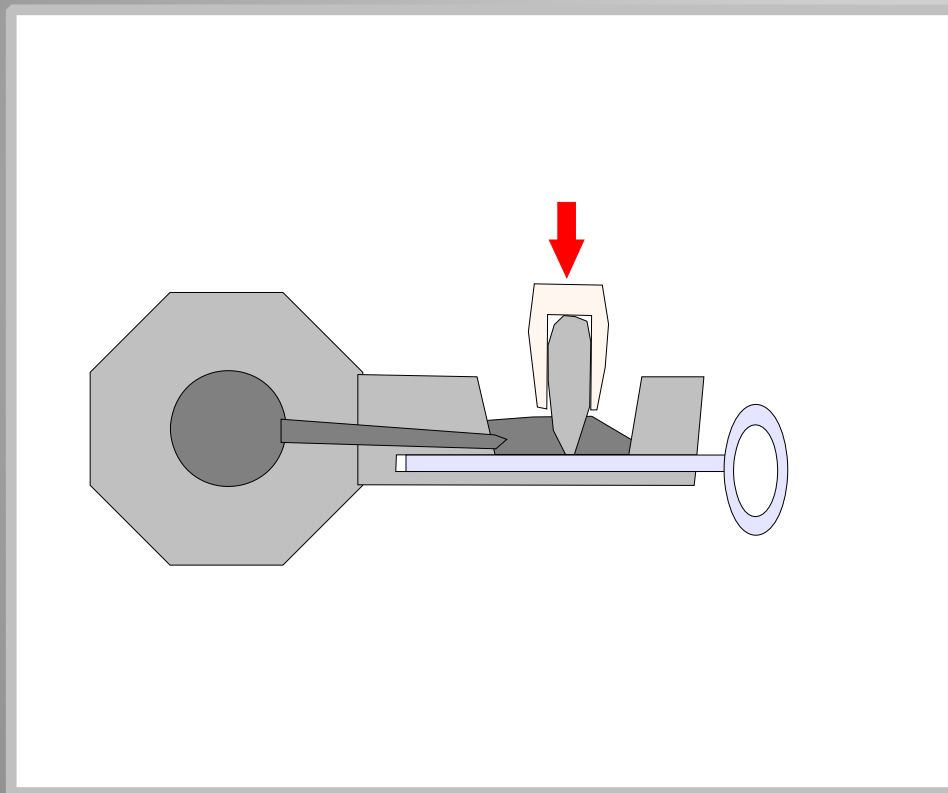


Friction Spark Ignition

Mönchs Hand Gun, ca. 1500



Concept of the Friction Rod Spark Ignition



After the loading of the barrel with black powder and a lead ball, primer is put into the flash pan.

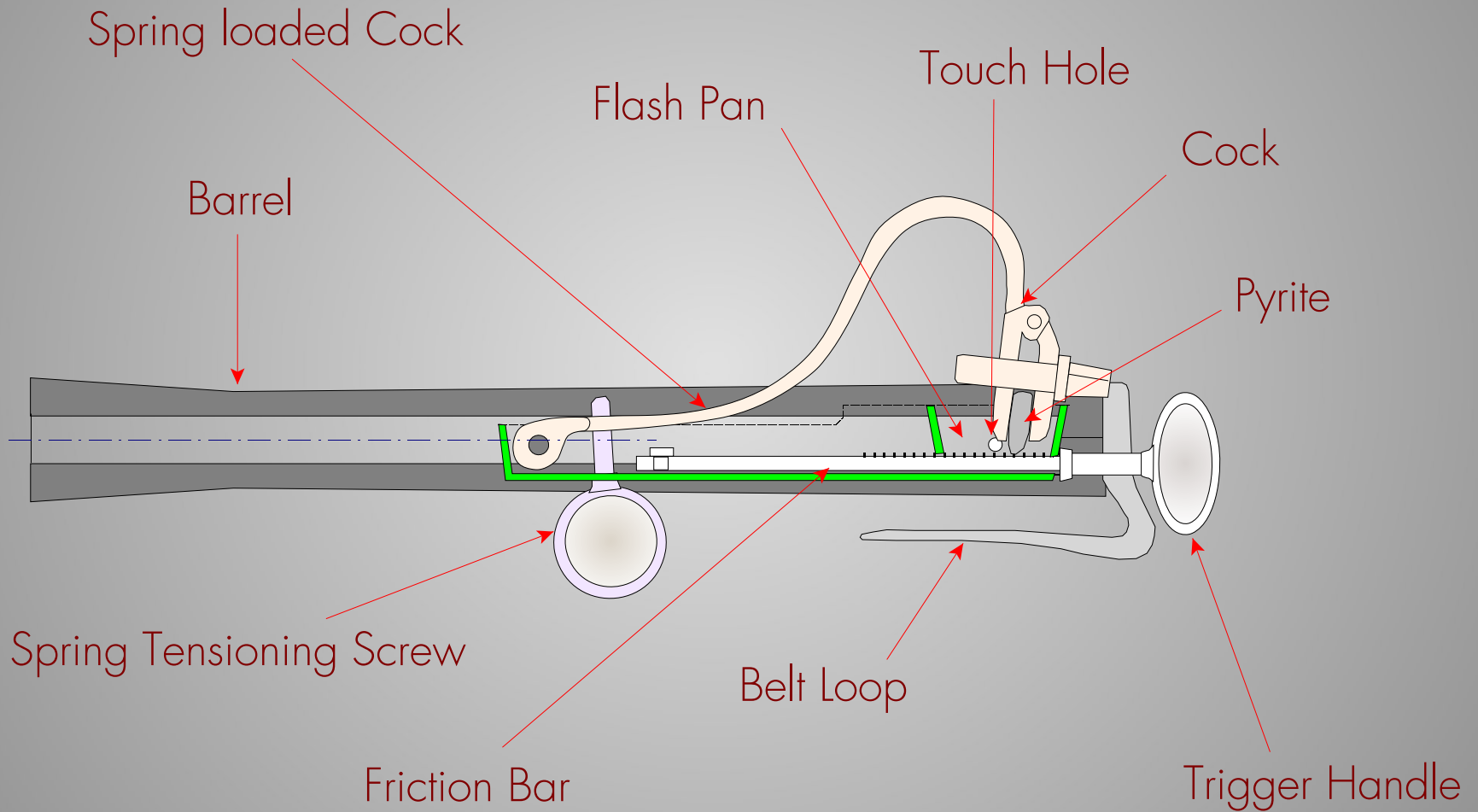
In the area of the flash pan, a piece of pyrite is pressed onto the rough surface of the rasp.

If the rasp is pulled back, the pyrite produces sparks on the rasp's surface and they light the primer in the flash pan.

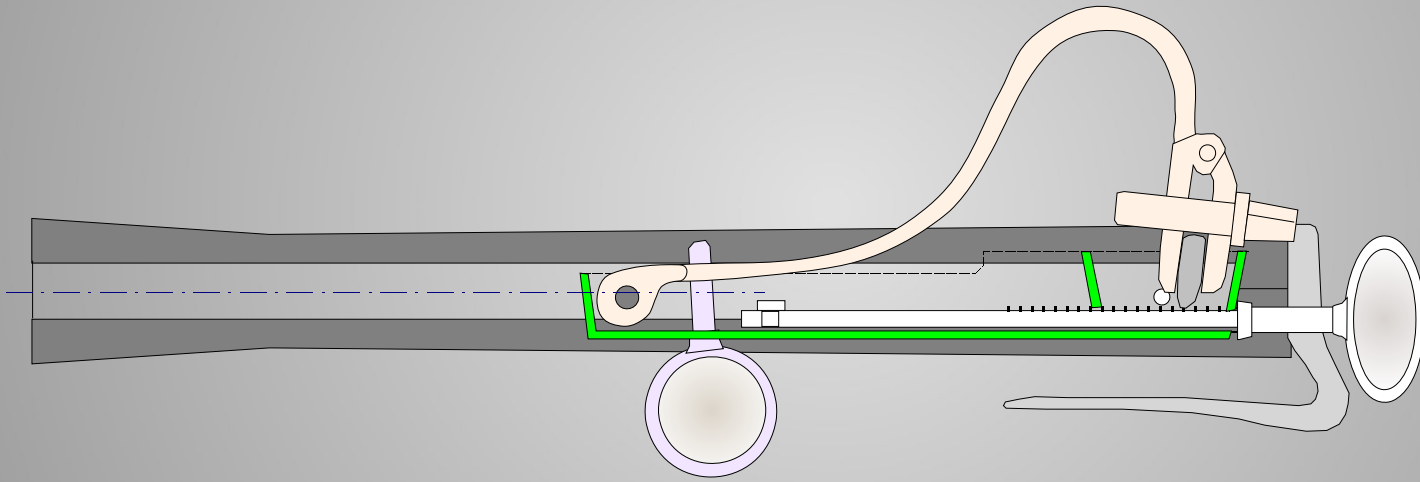
Friction Rod Ignition System of the Mönch's Hand Gun



Cross Section of Friction Bar Ignition



Hand gun in resting position



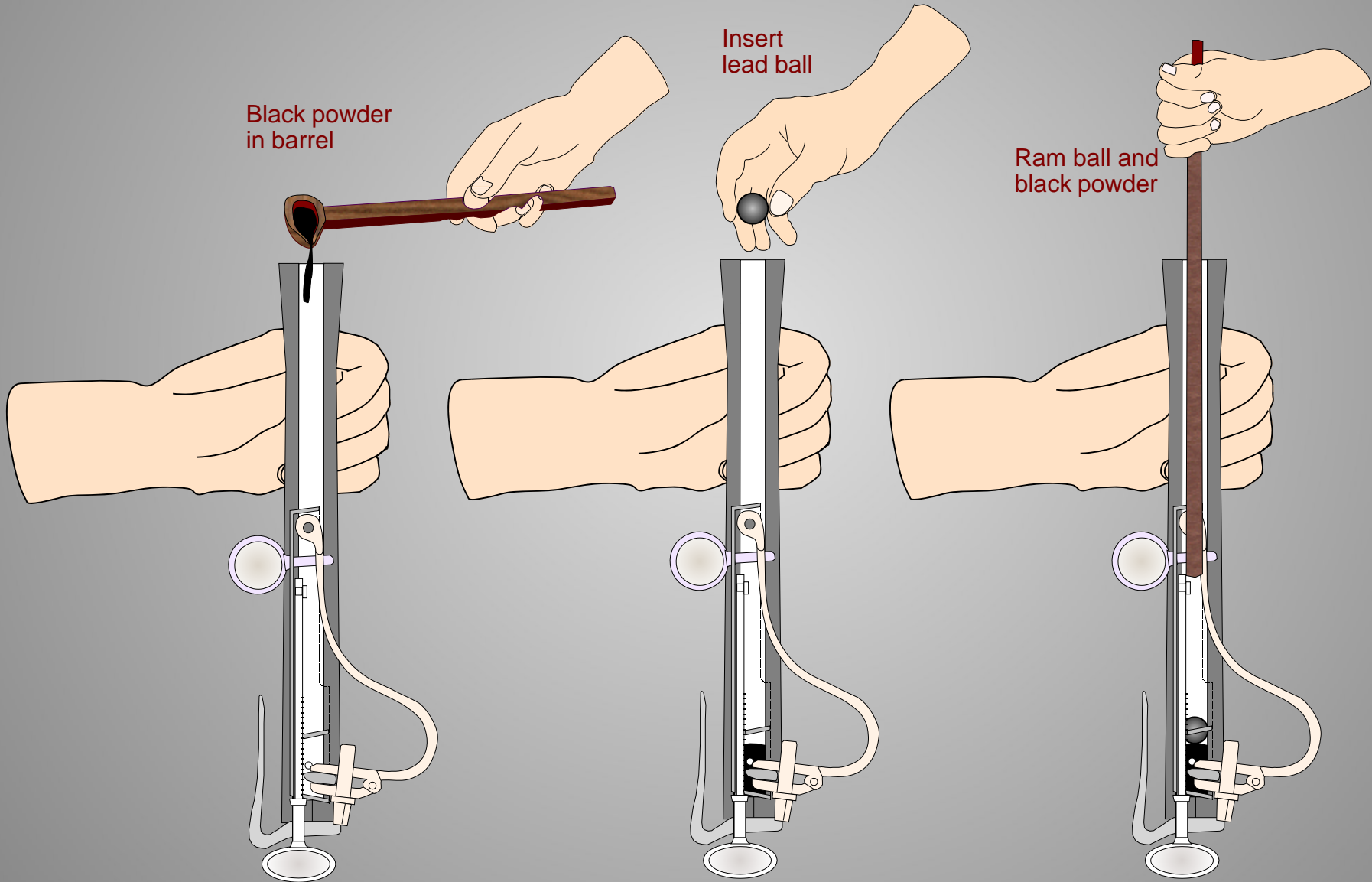
Loading of the Mönch's Gun

Loading steps

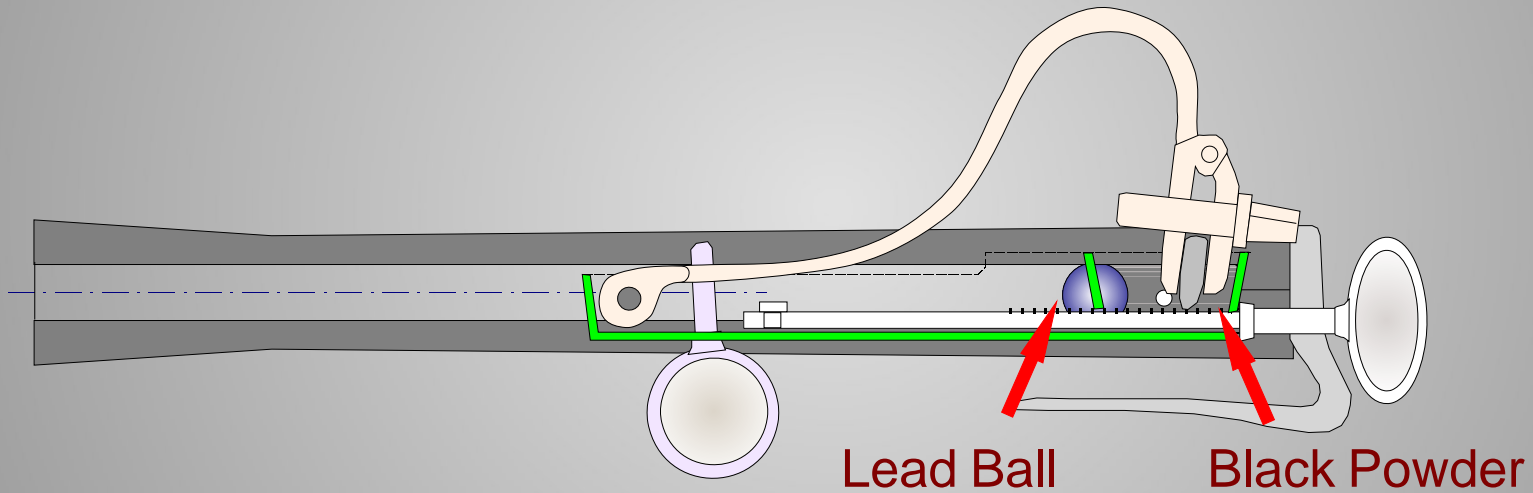
Black powder
in barrel

Insert
lead ball

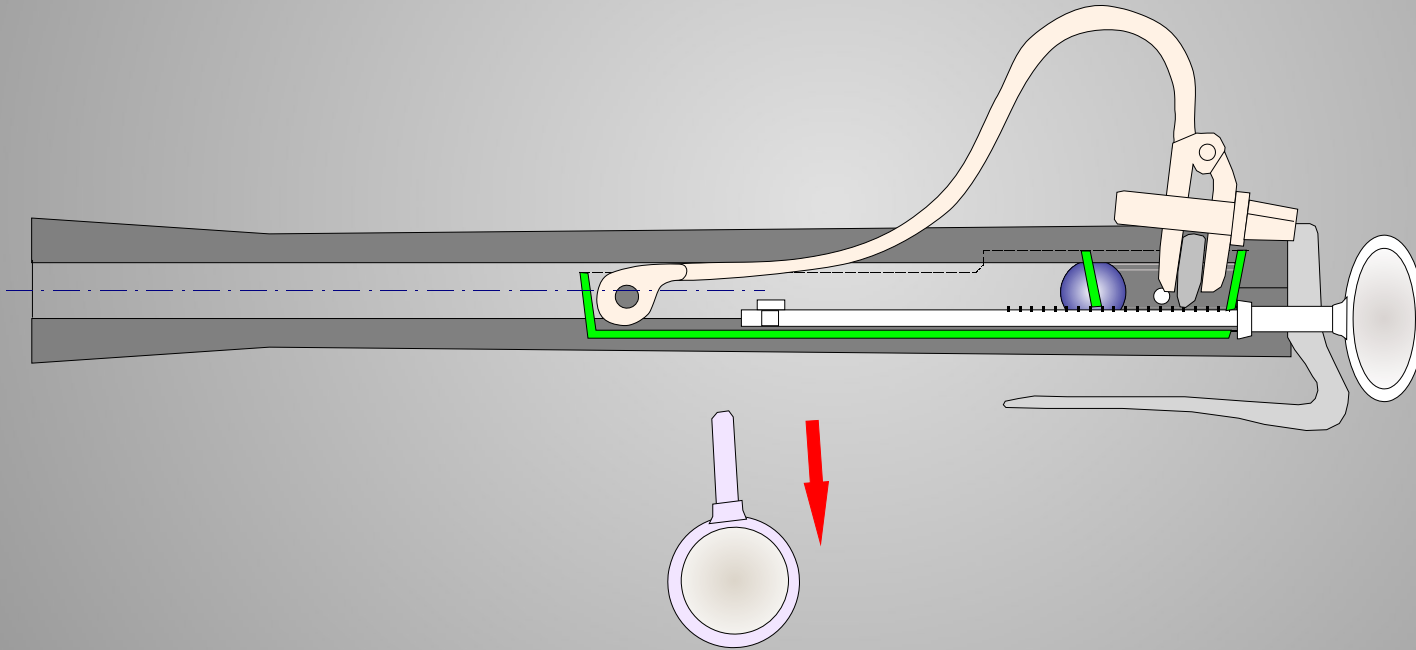
Ram ball and
black powder



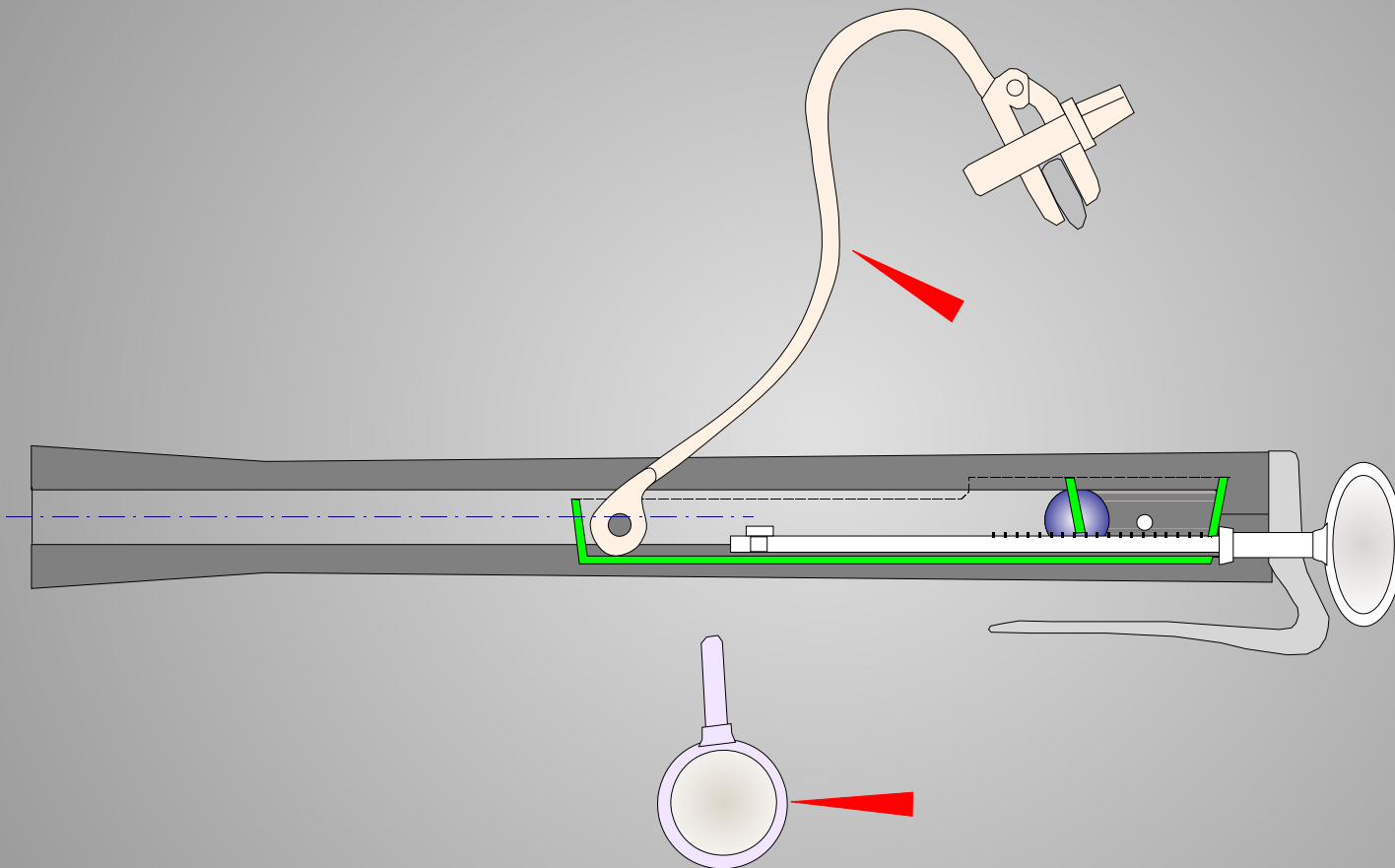
Barrel loaded with black powder and lead ball



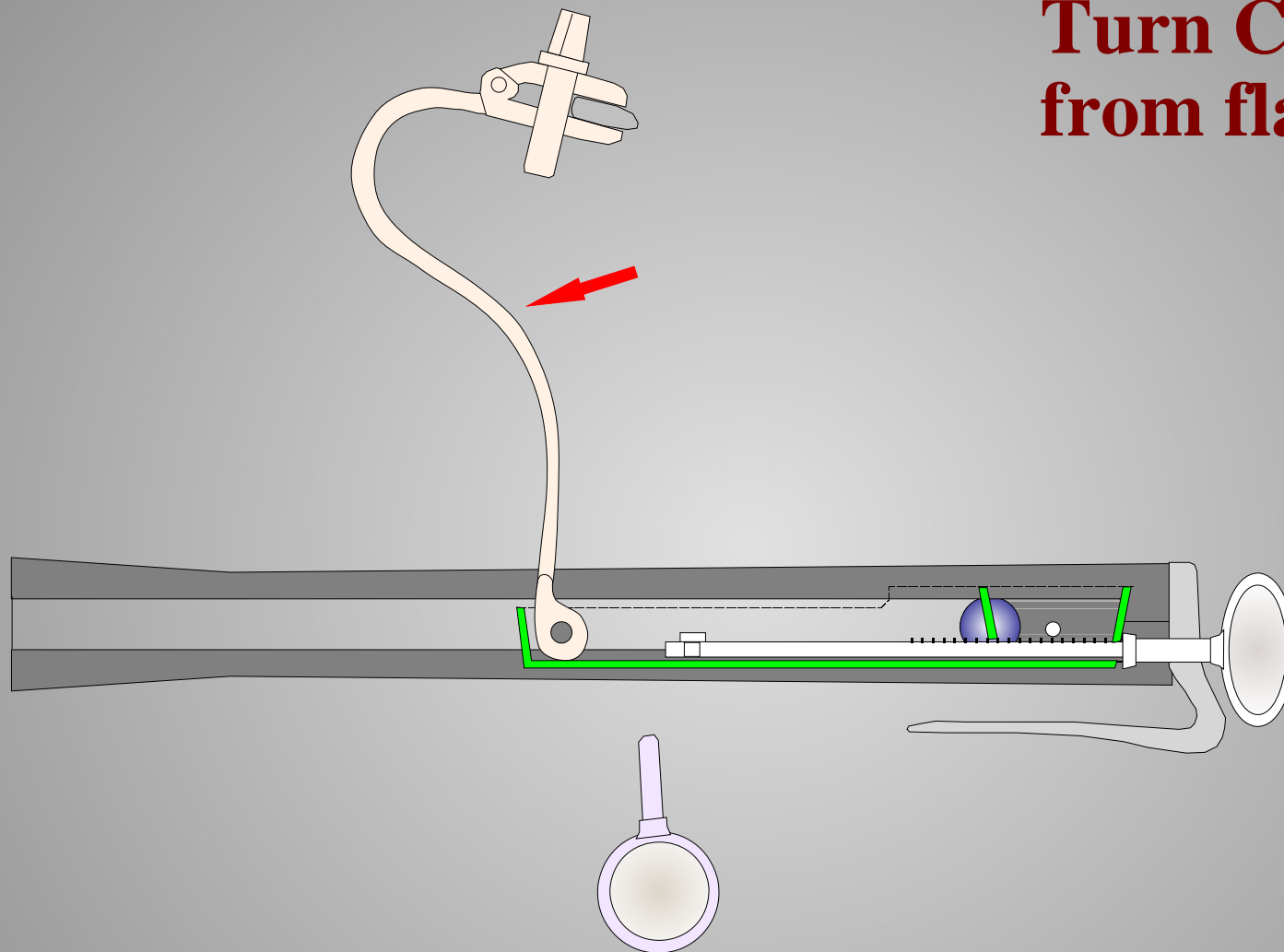
Remove Tensioning Screw



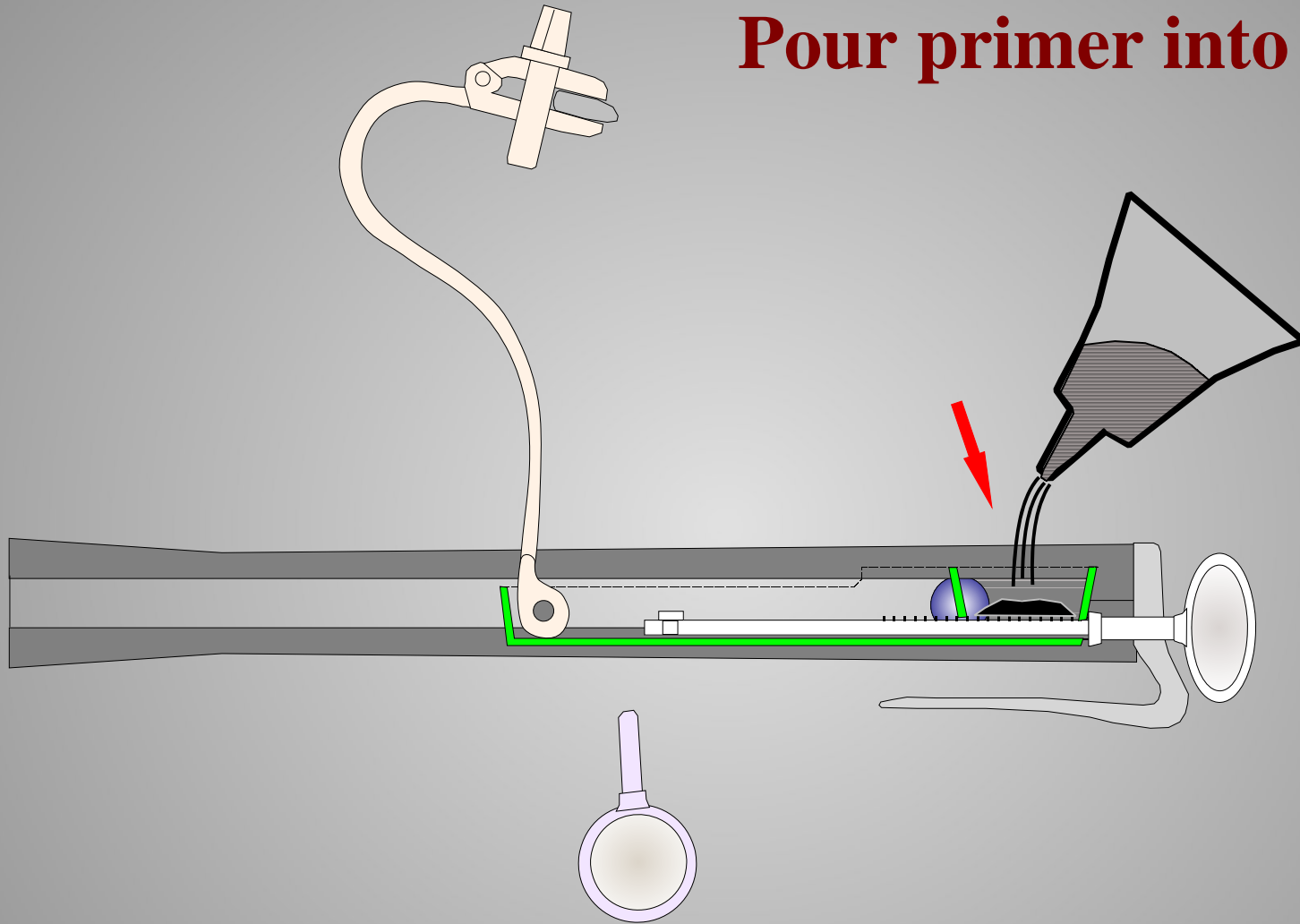
**Turn Cock away
from flash pan**



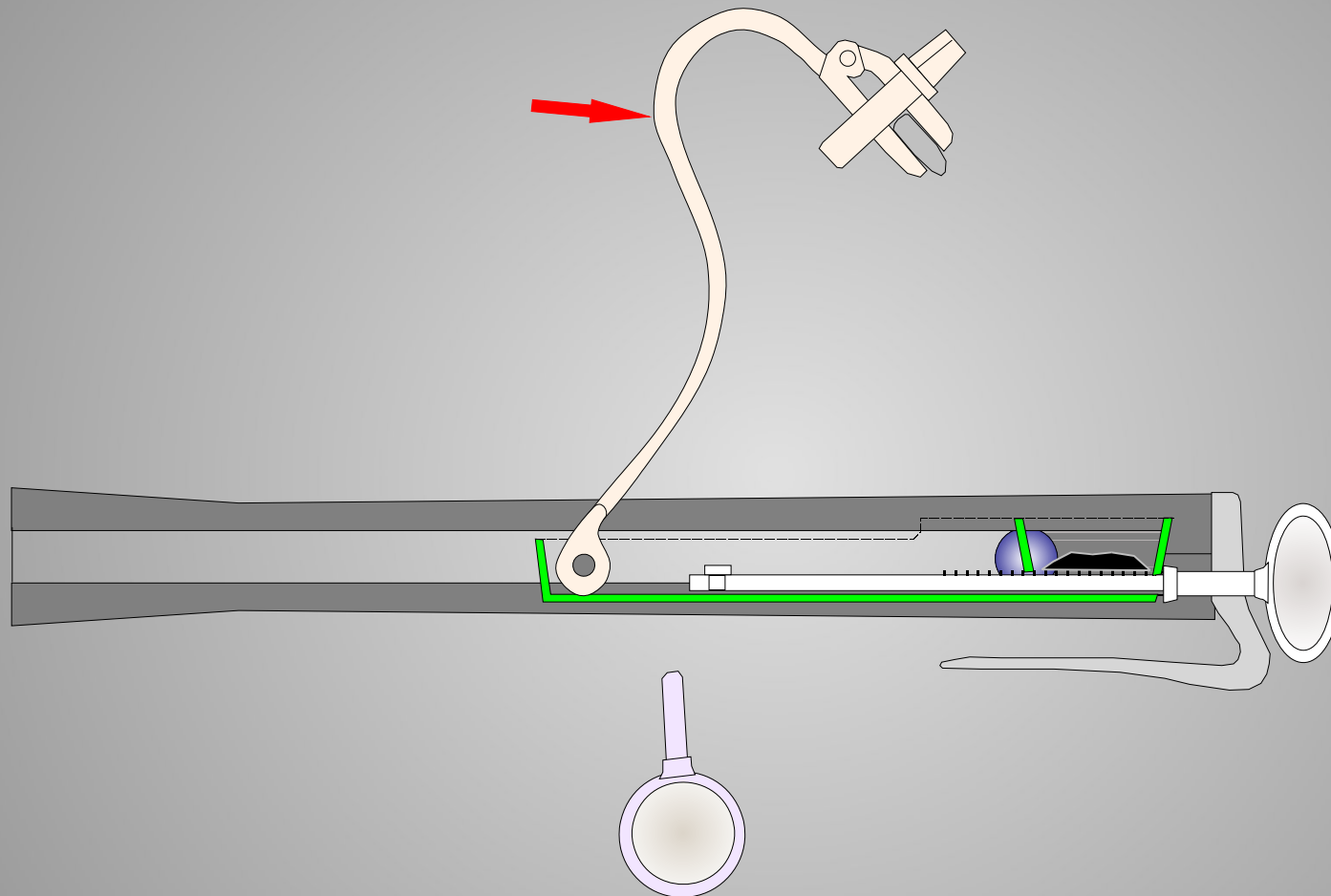
**Turn Cock away
from flash pan**



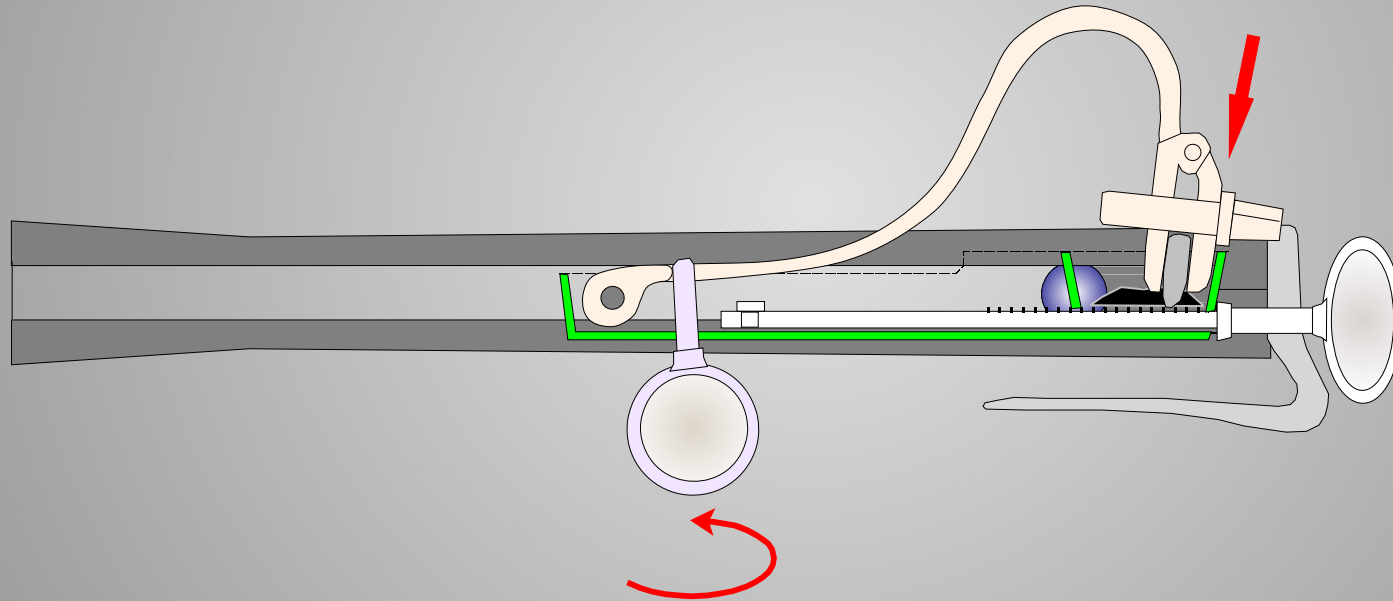
Pour primer into flash pan



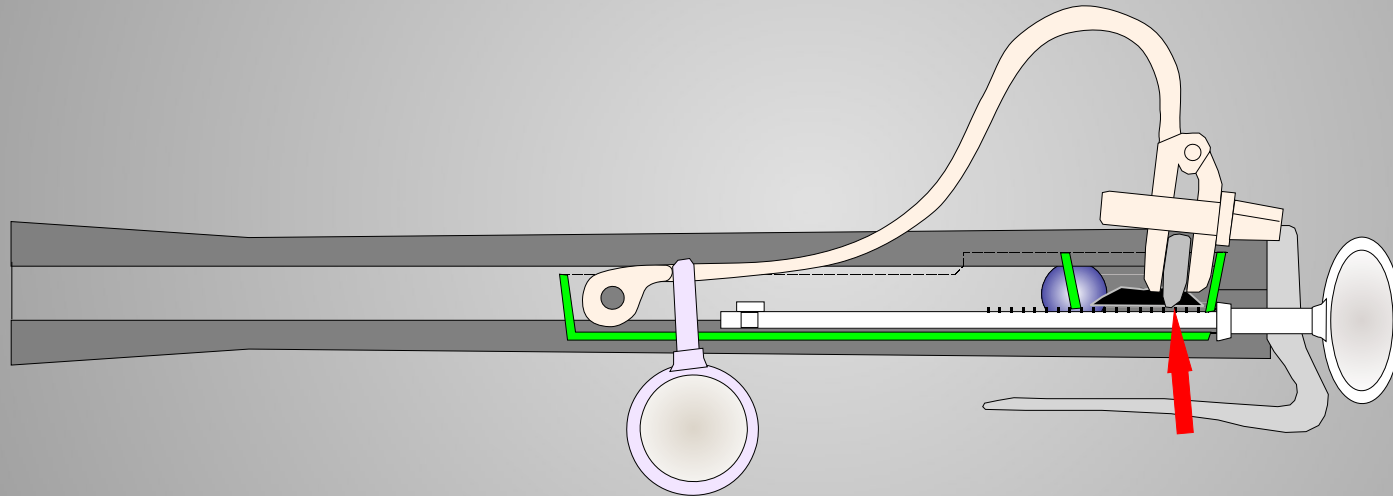
Turn cock back to flash pan



Insert tensioning screw and apply tension to Pyrite

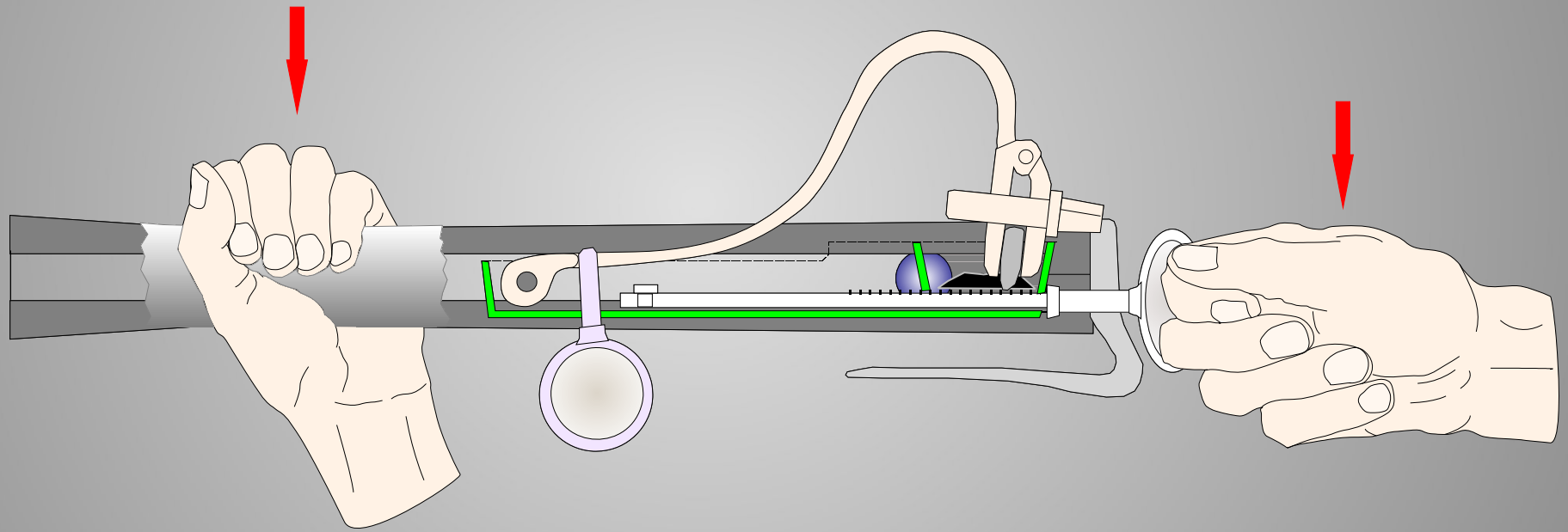


Pyrite is pressing on friction bar

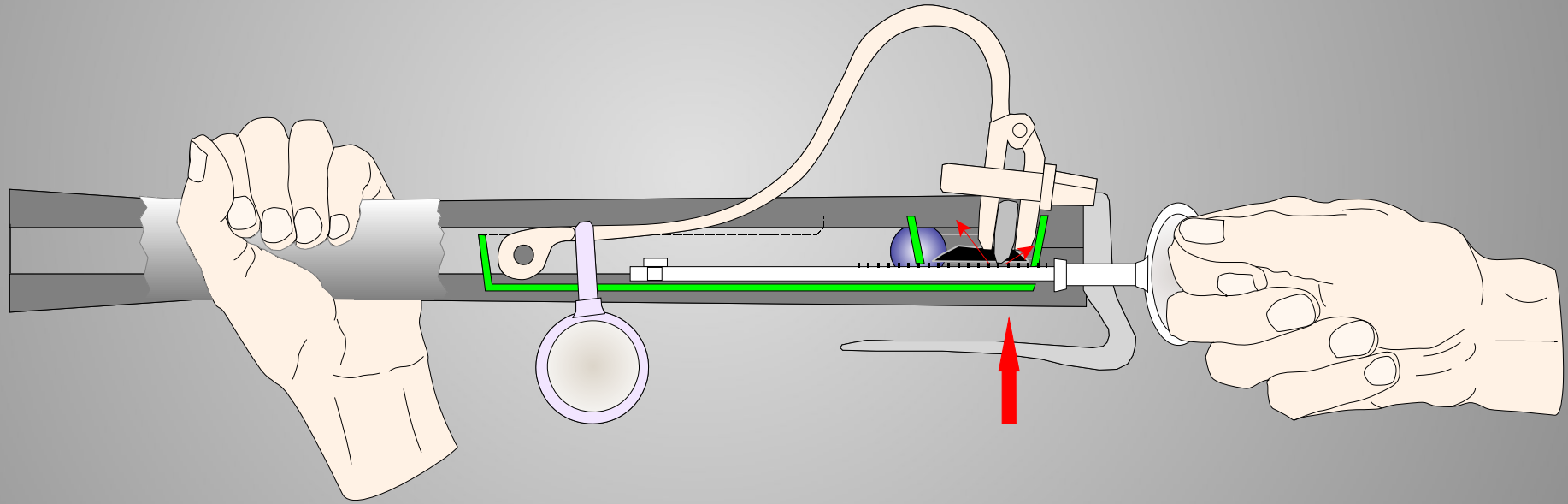


Firing of the Mönch's Hand Gun

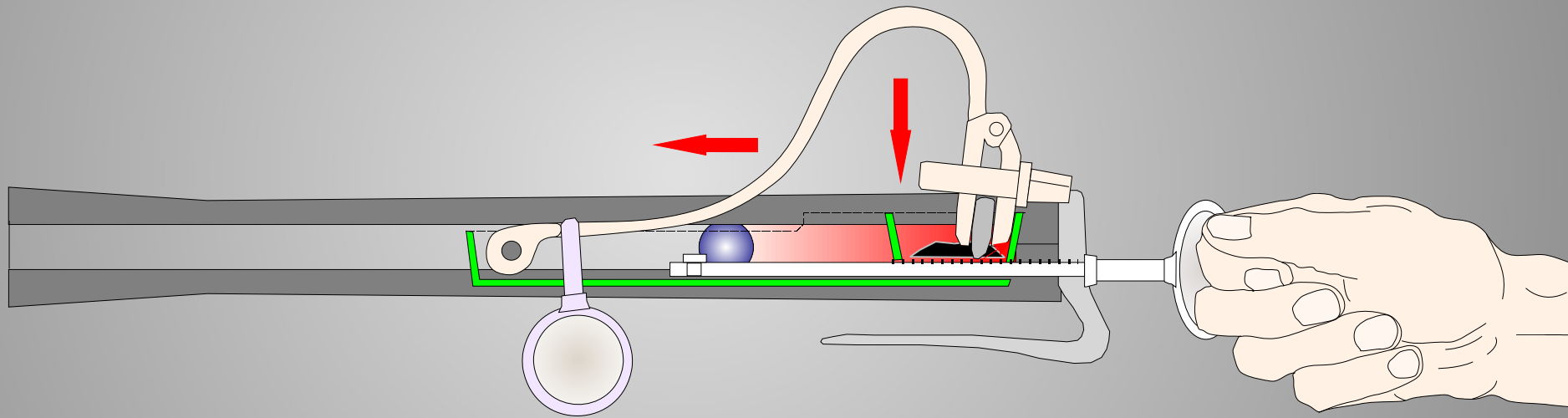
Fast pull back of the friction bar



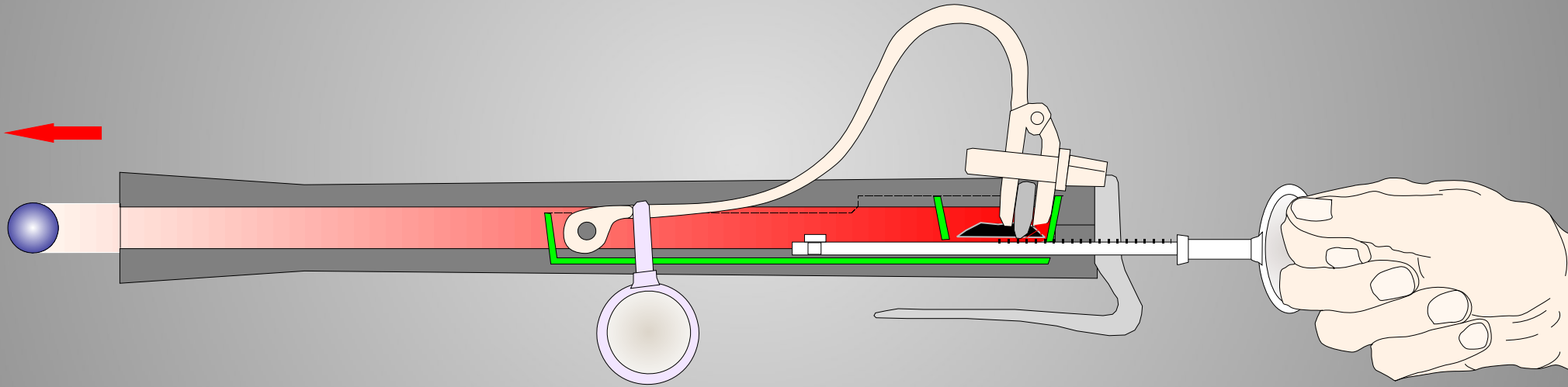
Friction on pyrite creates sparks



Black powder charge is being ignited



Bang !!



End