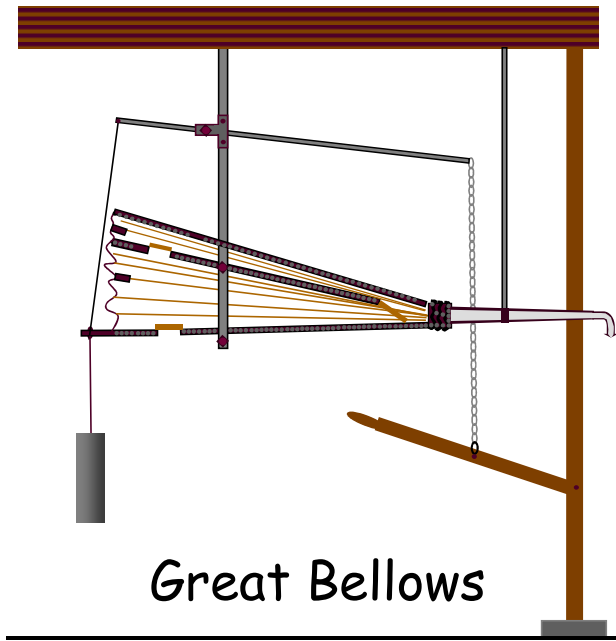




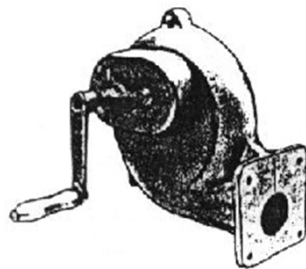
## **School Project Sheet**

# **Combe Mill Forge Blacksmithing tools**

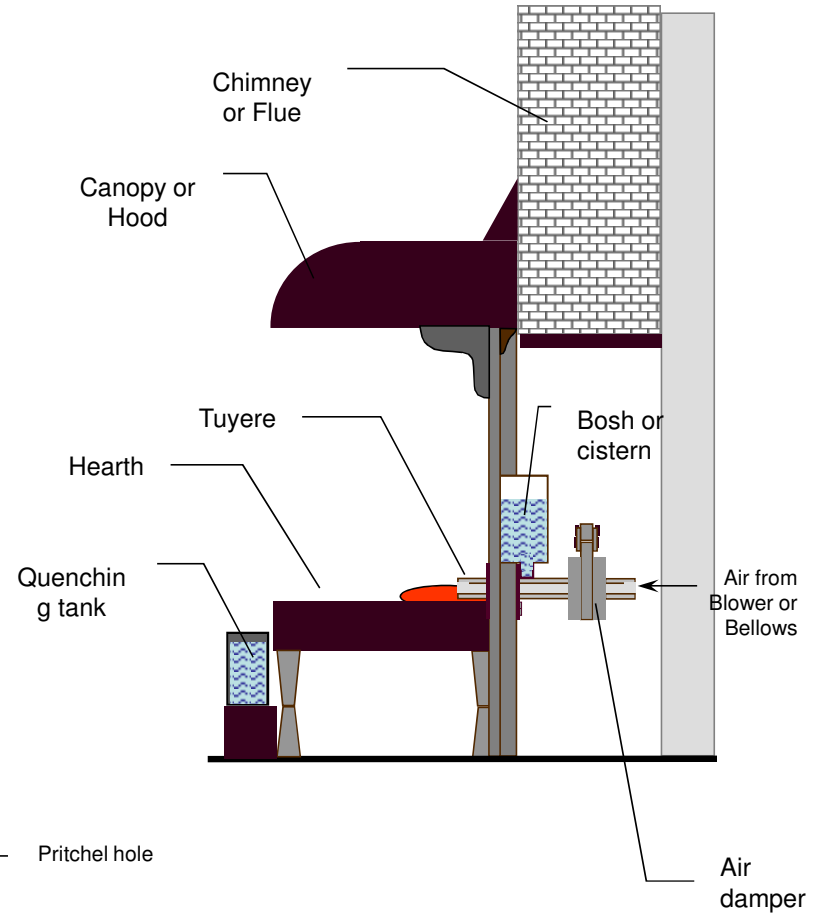


Great Bellows

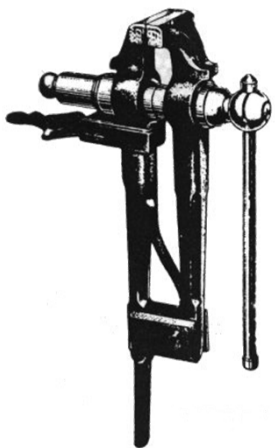
Hand Blower



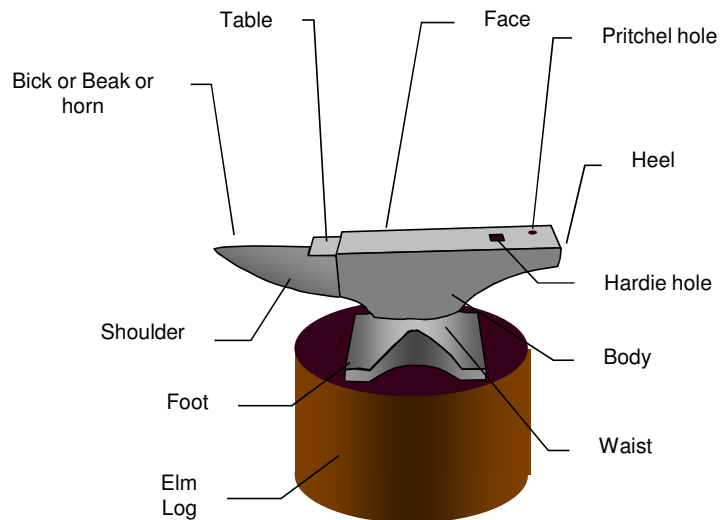
Forge and hearth



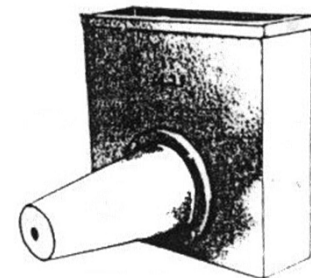
Leg Vice



Anvil



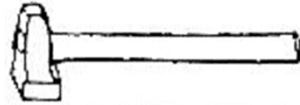
Tuyere & Bosh



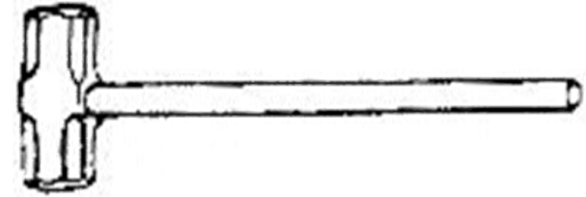
Drifts



Sett Hammer



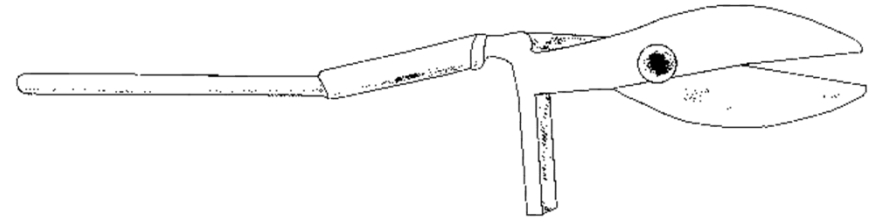
Sledge Hammer



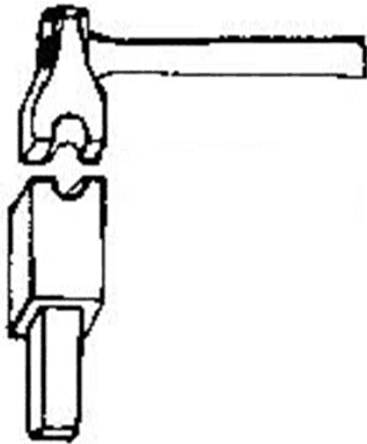
Ball Peined Hammer



Hand Shear



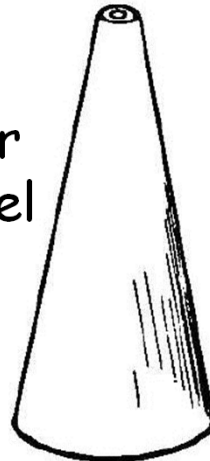
Top & Bottom Swage



Swage Block



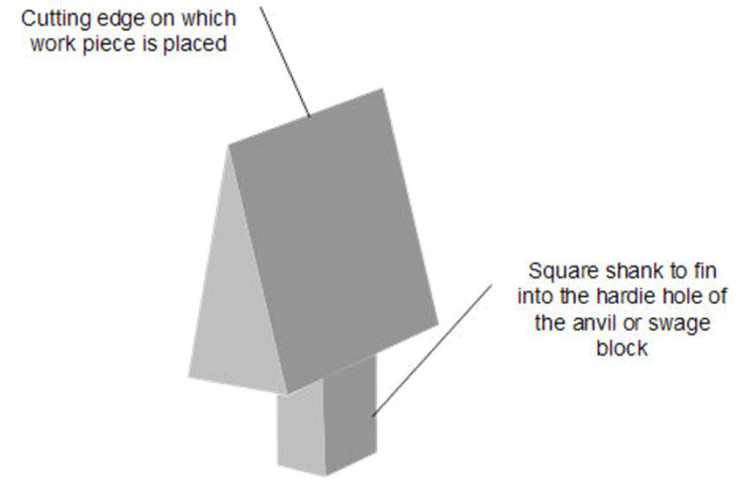
Floor  
Mandrel



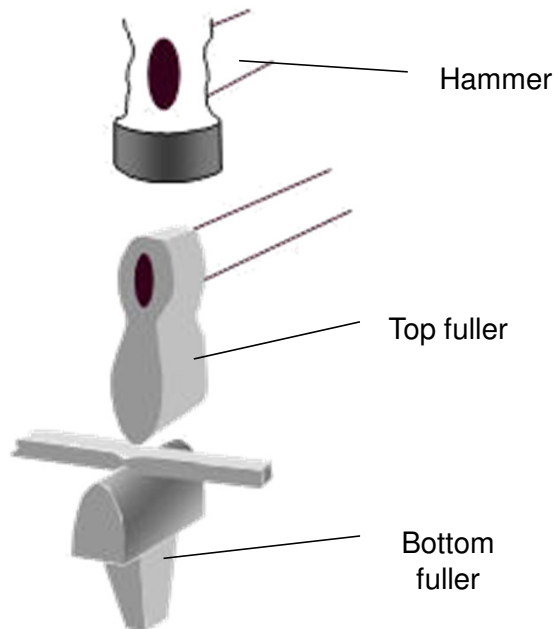
## Bending wrench and fork



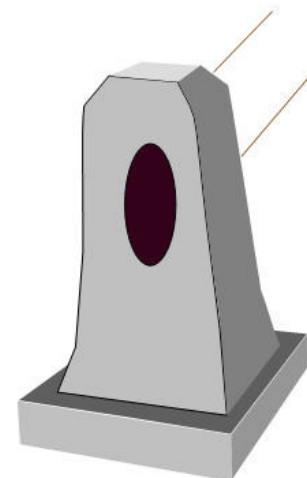
## Hardie



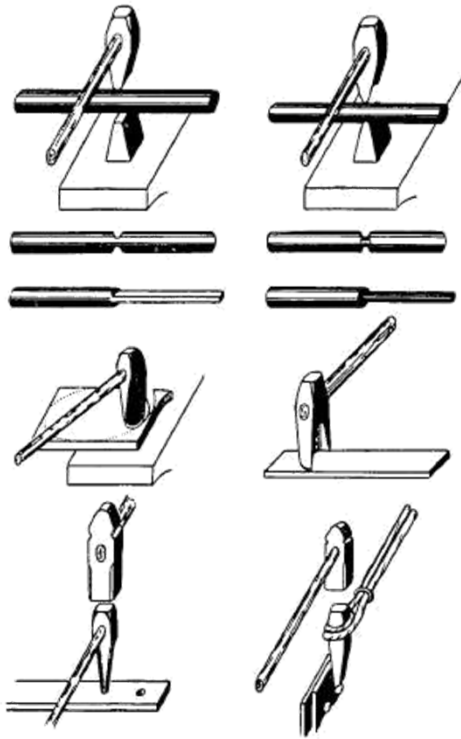
## Top and Bottom Fullers



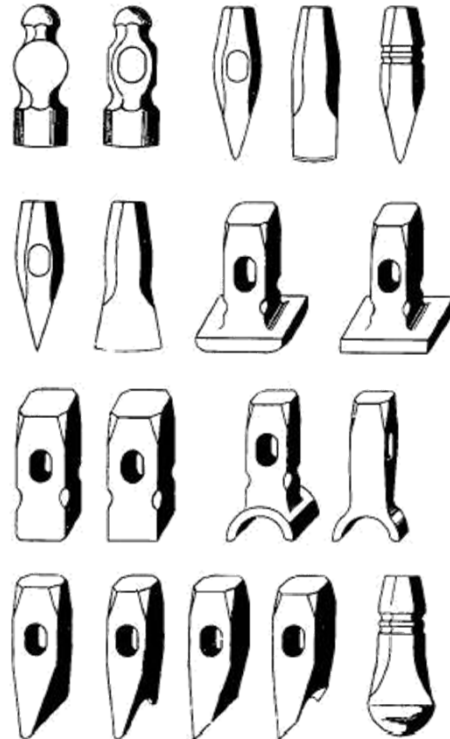
## Flatter or Sett Hammer



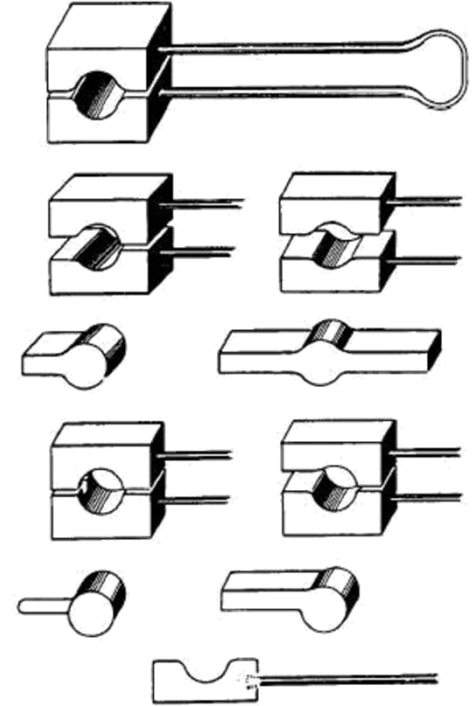
## Fullers



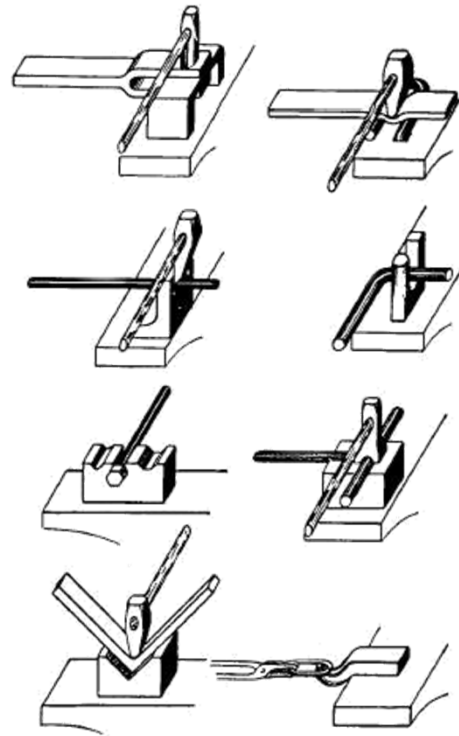
## Hammer Heads



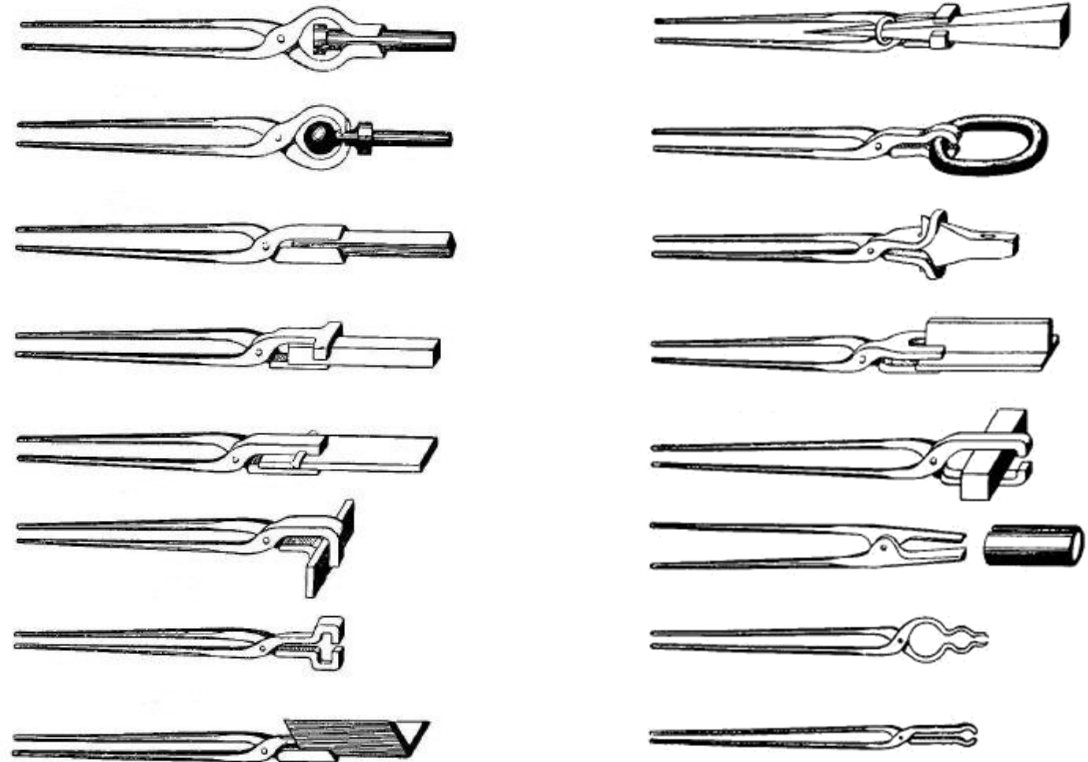
## Sprung Swages



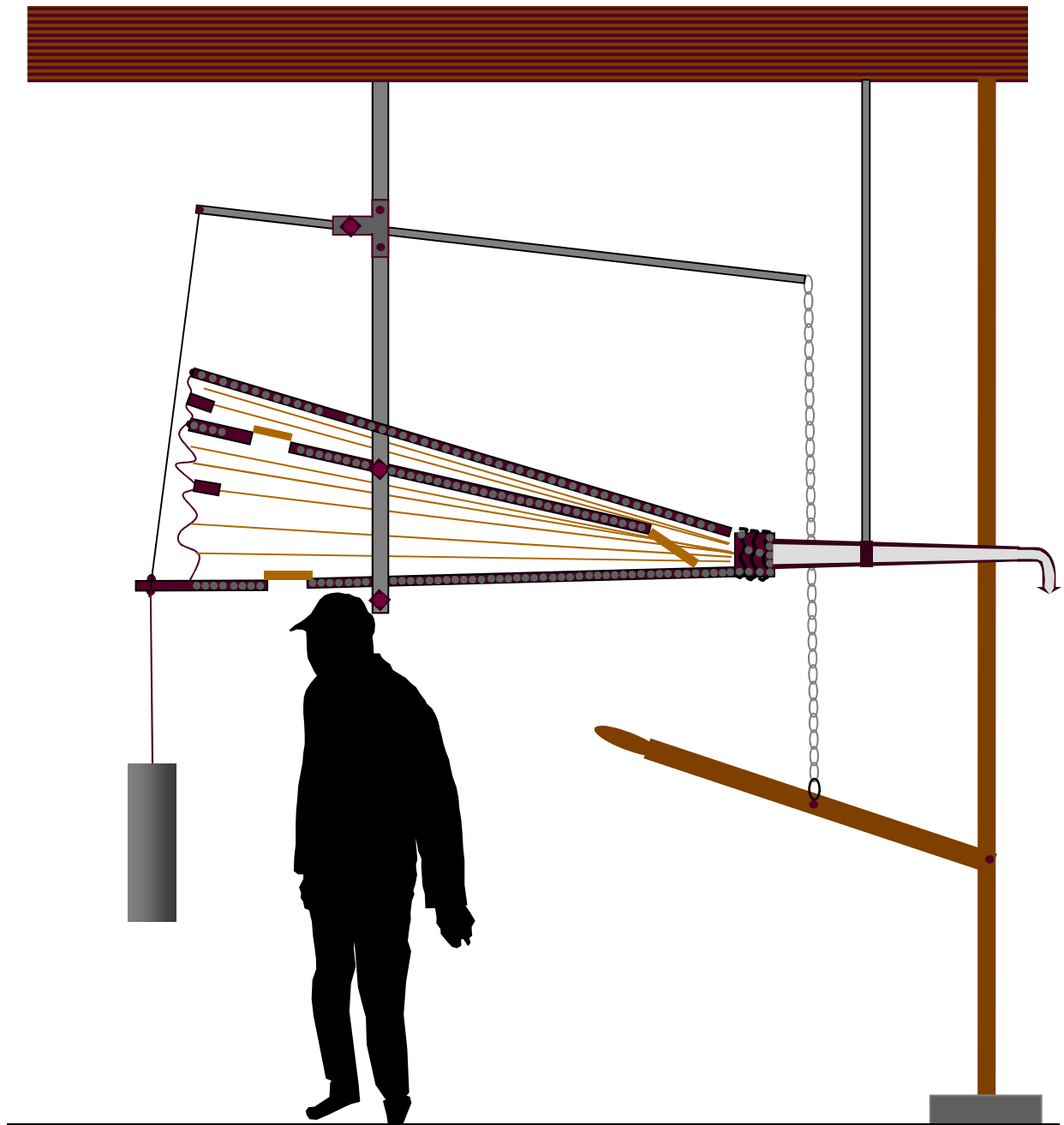
## Fullers



## Tongs for various duties

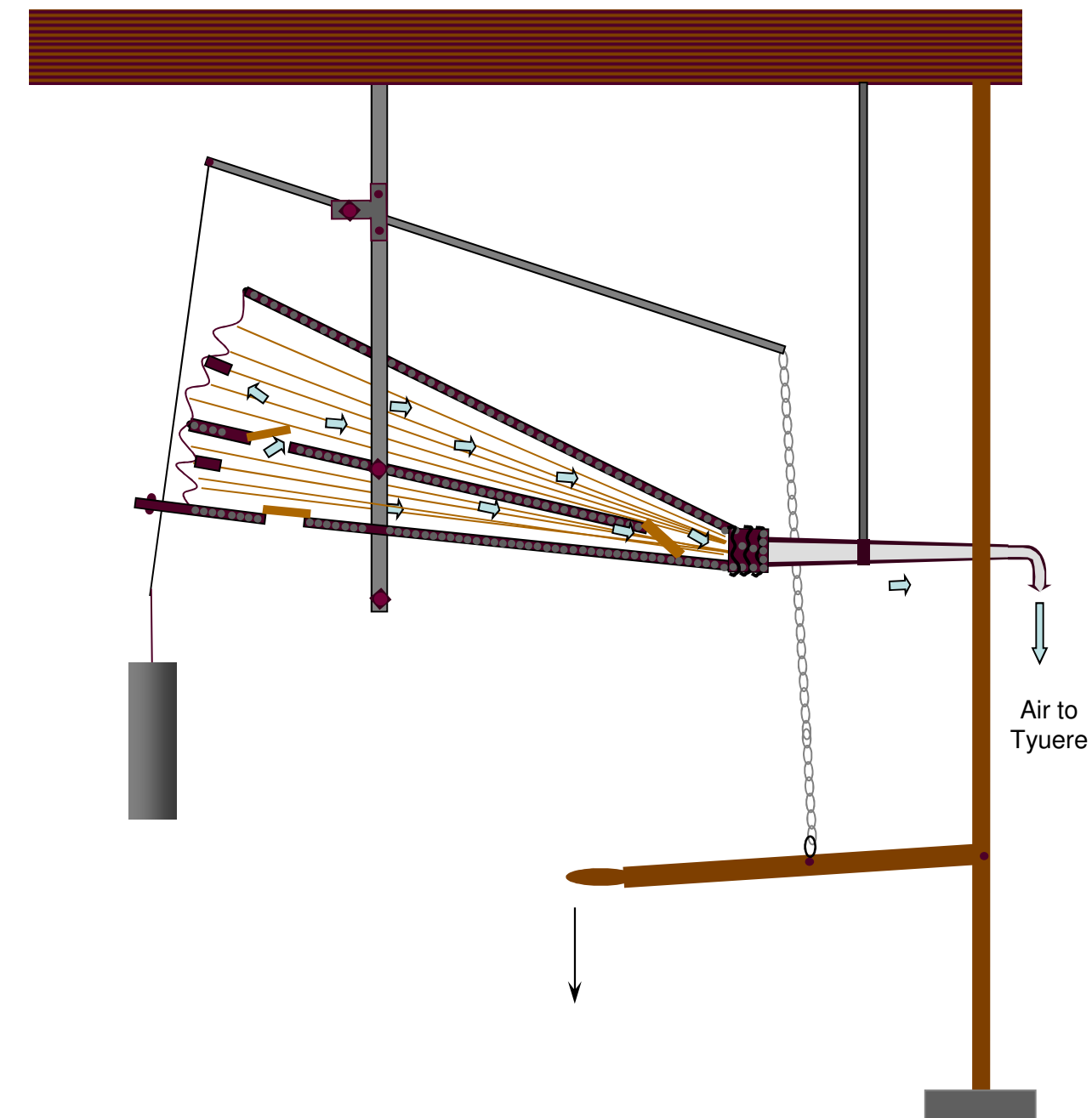


*How the Forge Bellows Works*



**Rest position** - top chamber collapsed - lower chamber fully expanded

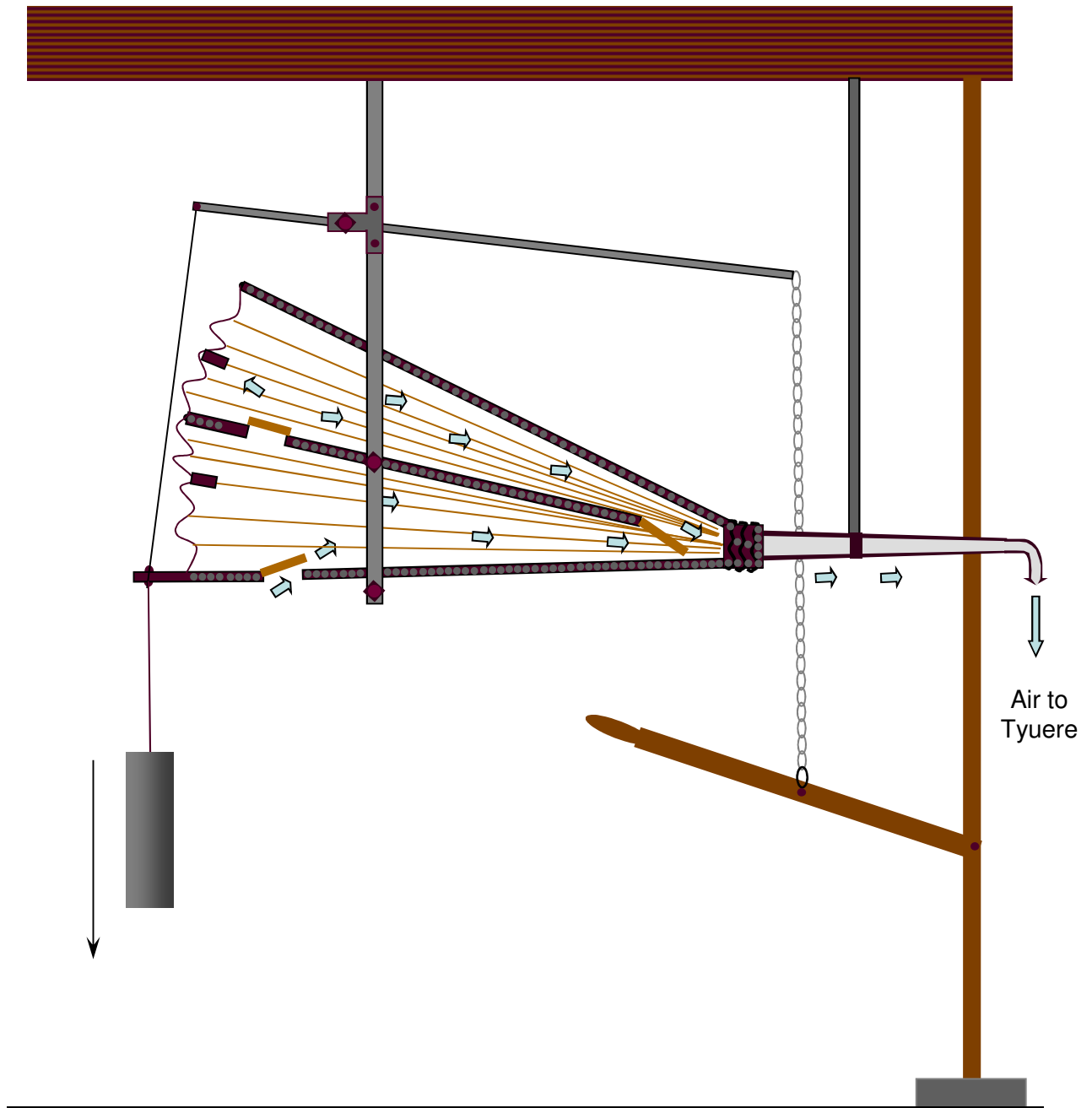
## How the Forge Bellows Works



**First step** - Lever pulled down: top chamber expands - lower chamber contracts. Air exhausted from lower chamber and top chamber filled with air.

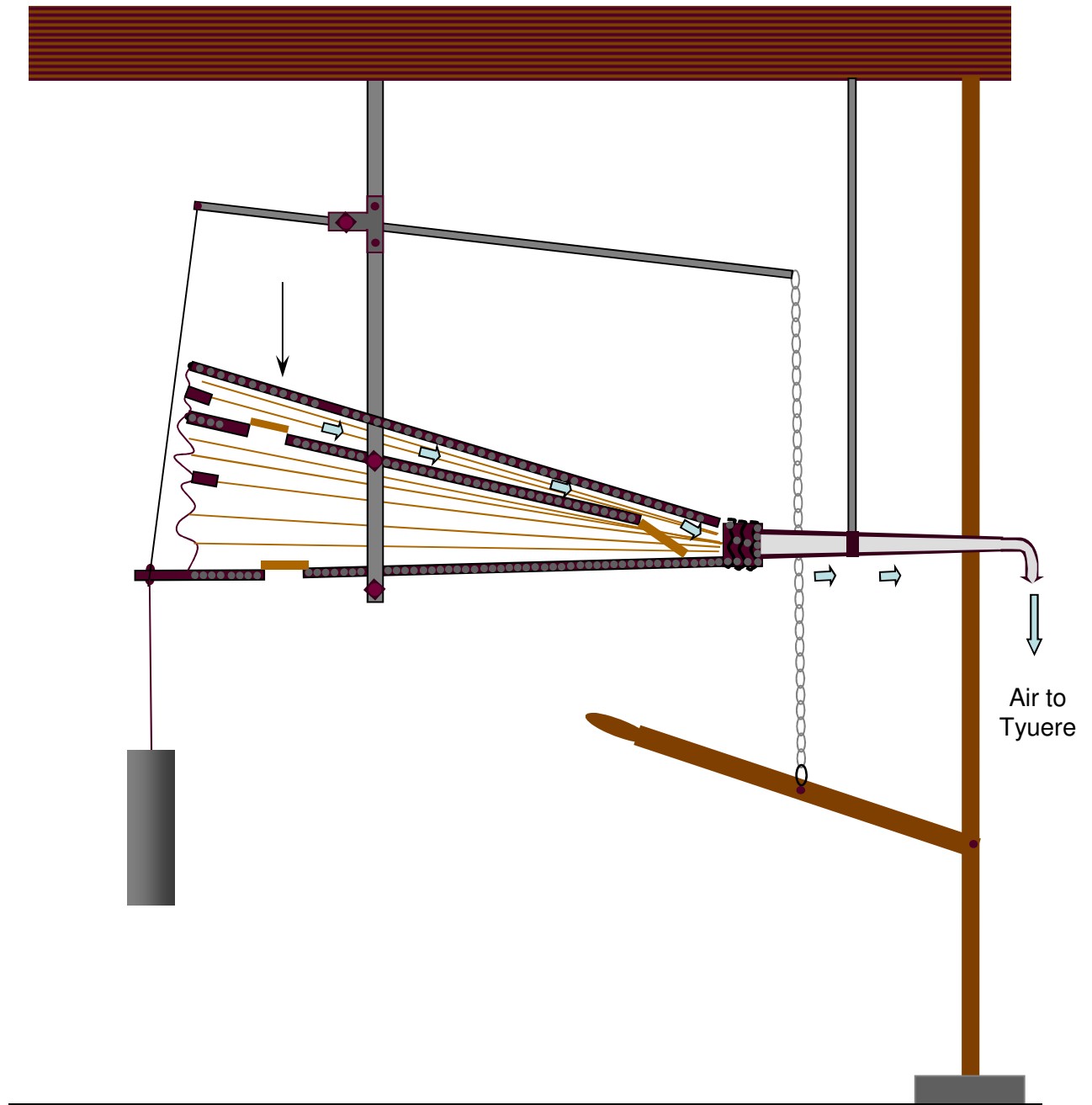


How the Forge Bellows Works



**Second step** - Lever released: top chamber starts to collapse under its own weight. Air is exhausted from top chamber and the lower chamber extends, drawing in air, as it is pulled open by the hanging weight.

*How the Forge Bellows Works*



**Third step:** - top chamber collapses under own weight.  
Air continues to be exhausted from top chamber as it collapses.