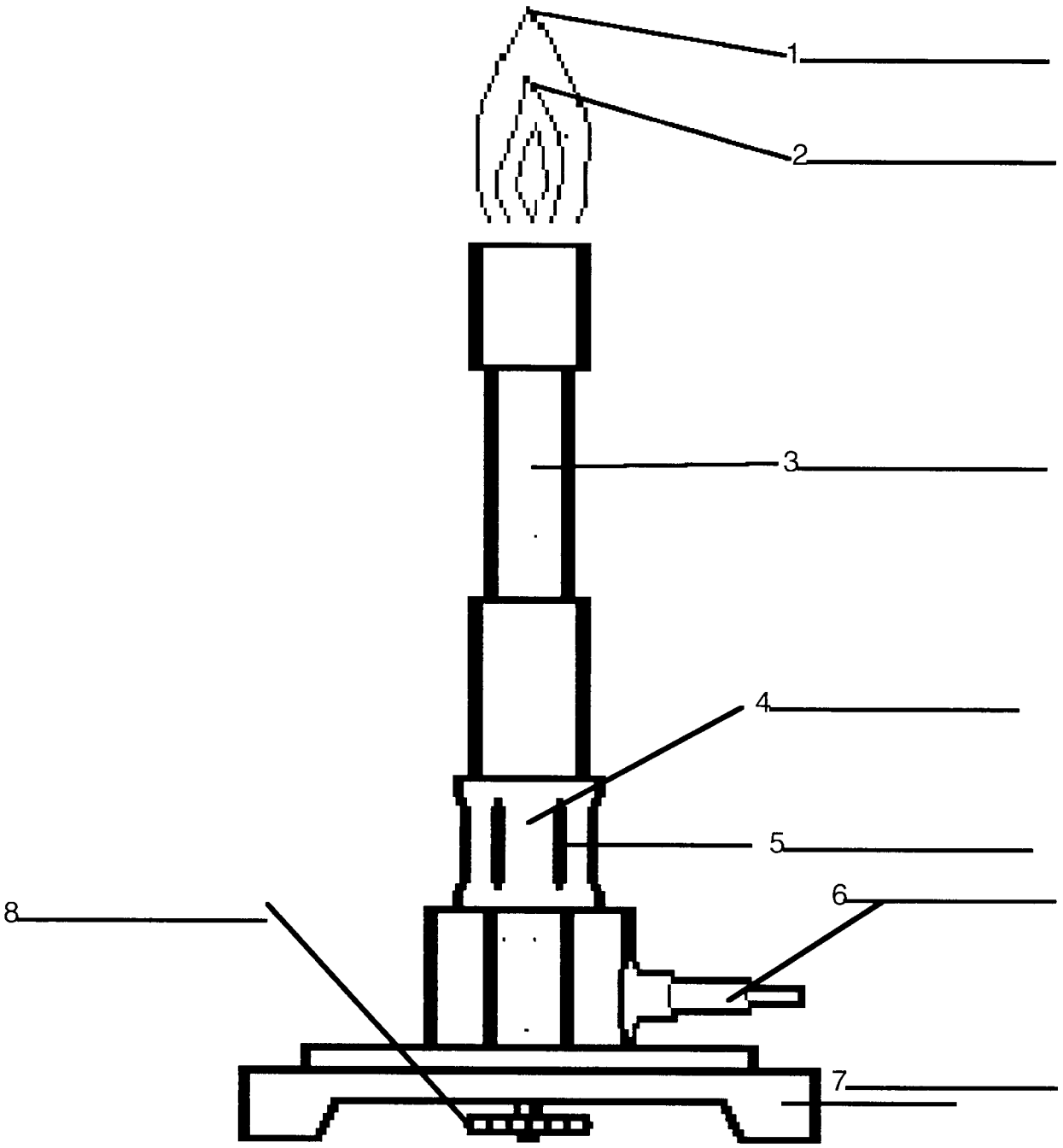
THE BUNSEN BURNER



The bunsen burner is commonly used to heat things during experiments. While bunsen burners vary somewhat in appearance, each has a **base** to support the burner. A **gas inlet,** which allows gas to enter the burner, is located in the base. An adjustable **needle valve** regulates how much gas will enter the burner. A vertical tube, or **barrel**, is where the gas is mixed with the air. Openings in the base of the barrel, or **ports**, introduce air into the gas stream. The **collar** regulates the amount of air entering the barrel by opening and closing the ports. By changing the amount of air mixing with the gas, the burner can form a **"cool" or "hot" flame**. The "hot" flame is recognized by the presence of an inner cone in the flame. The hottest part of the flame is at the tip of this inner cone.