ABSTRACT

A burner includes a sleeve-type top lid (10). An annular gas-separating box (30) is connected to the bottom of the top lid (10), consequently a space is formed between the top lid (10) and the gas-separating box (30), in which a cylindrical gas-mixing box (20) for mixing air and fuel gas is disposed. The gas-separating box (30) is provided with separate centric hole (31) through which air enters and fuel gas inlet hole (32) through which fuel gas enters. The cylindrical surface of the gas-mixing box (20) is arranged with several grooves (21) disposed at a distance from each other and inclined upwards, the surface of the grooves (21) is disposed with communicating holes (210) through which air exits. In this way, dispersed fuel gas and air are mixed sufficiently in the grooves inclined upwards and then whirls upwards, and flows to an inverted frustoconic flame hole (11). As the fuel gas and air are mixed sufficiently and the mixed gas whirls upwards, the combust flame is full and not extinguished easily.