

The invention relates to the power engineering, in particular to a gas burner and may be used in the heat-power engineering.

The gas burner includes a combustion chamber (29), a gas distribution chamber (14), two annular air chambers (4, 7), a central air chamber (28) placed coaxially and communicating between them by means of holes (5, 6, 9, 10, 15) made into their walls, gas (13) and air (1) supply branch pipes, an ignition system (17) and a nozzle (30). The burner is additionally equipped with an air ionization block, comprising an air ionization chamber (22) and an air feeding branch pipe (18), joined by means of electric insulating gaskets (19) with a cylindrical mantle (21), placed coaxially with the gas supply branch pipe (13) and made with the possibility of tangential inlet of the air inside the ionization chamber (22), limited by the outer surface of the gas supply branch pipe (13) and the inner surface of the mantle (21). Inside the ionization chamber (22) coaxially to the burner chambers there are installed an annular anode (24) and a cathode. The interelectrode space, limited by nets (25), is filled with cylindrical bodies of soft magnetic steel (26). The ionization chamber (22) communicates with the central air chamber (28) by means of a transversal pipe (27). On the outside of the mantle there is installed a generator (23) of rotary electromagnetic field, connected to an alternating-current source.

Claims: 2

Fig.: 1

