

The invention relates to the power engineering, in particular to an installation for gas fuel burning.

The installation for gas fuel burning comprises an air blower (1) with an air inlet branch pipe (2), joined by means of an air duct (3) with a cylindrical chamber for air enrichment with oxygen (4), wherein there are mounted guides (6) and an axle (7) of diamagnetic material, onto which there are fixed permanent magnets (8) and intermediate metal elements (9), a chamber for reception of vitiated air (12), embracing the cylindrical chamber (4) coaxially placed thereto, a vitiated air outlet branch pipe (13) with gate valve (14). The chamber for air enrichment with oxygen (4) by means of an air duct (15) tangentially communicates with a cyclone (16), consisting of a body (18), wherein there is mounted an exhaust tube (19) with a lead bar (20). At the same time, the tube casing is made with narrowing in the shape of cone towards the end faces, one (25) of which goes beyond the limits of the cyclone (16) casing and together with the conic outlet (26) of the gas supply chamber (27), equipped with a gas supply branch pipe (28), forms a burner (29) with mixing chamber (30), joined with the embrasure (31) of a burning furnace (32), having channels (33) for burnt gas withdrawal into the gas reception chamber (34) and a branch pipe (35) for withdrawal thereof, and from the end of the other end face of the tube (21), between the inner surface of the cyclone and the outer surface of the exhaust tube there are installed pipes (22) of quartz glass embraced by nets (24) with a layer of titanium dioxide, and with ultra-violet lamps (23) enclosed therein.

Claims: 2

Fig.: 1

