

The invention relates to the power industry, in particular to installations for hydrocarbon fuel burning and may be used in the heat-power engineering.

The installation includes two coaxially placed cylinders (4, 21), forming at one end an injector (24), the central cylinder (4) is provided for air supply from an air blower (1) and the outer (21) one for hydrocarbon fuel delivery, being joined with the embrasure (25) of a burning furnace (26); the central cylinder in the air movement direction consists of an oxygen enrichment chamber and an ozonation chamber (14); between the cylinders (4, 21) in the region of the enrichment chamber there is coaxially installed a vitiated air reception chamber (11), the bottom of which communicates with the enrichment chamber by means of a separator (9), the reception chamber (11) is provided with a branch pipe (12) with gate valve (13) for outlet of the vitiated air; around the gas fuel delivery cylinder (21), in the region of the ozonation chamber (14), there is installed a heating jacket, communicating with the furnace (26) and containing a branch pipe for gas removal after burning (29); at the same time the air enrichment chamber is equipped with guides (5), wherein it is installed an axle of diamagnetic material (6) with permanent magnets (7) and intermediate metallic elements (8); the ozonation chamber (14) is made with ceramic walls (17) with an outer metal layer (18), connected to a highfrequency power supply (20), inside the chamber there is installed an electrode (15) with discharge protrusions (16).

Claims: 1

Fig.: 1

