

A method of operating a boiler or power generating unit includes the feeding of the material into the boiler furnace for generation of the thermal energy as traditional material, such as natural gas and air, and alternative materials as water, steam or other products of combustion of the flammable and oxidizing substances. During the operation of the boiler, in the boiler furnace, by the combustion of traditional fuels are heated the combustion products. Then, after reaching a certain pressure, the combustion products are supplied by heat generator or the Blahuta's paraplasm burner to the combustion area of the traditional fuel and air in the form of torch. So, the jets of the combustion products are distributed along the length of the torch and directed perpendicularly or at the angle, or against to the torch, or perpendicularly and at the angle to the torch, or perpendicularly, at the angle and against on the torch, or at the angle and against the torch, or perpendicularly and against on the torch.