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The invention relates to the heat power engineering, in particular, to the fuel and natural gas burning devices, for example, in the kettles and furnaces.

The device for hydrocarbon fuel burning comprises a body, representing a cylindrical casing 9 on the lateral surface of which diametrically opposite there are executed openings 8, 16. The body is provided with frontal covers 1, 10 into one of which there are designed fuel and water feeding channels and into the other - channels for gas - escape to the burner 14. The hydrogenation chamber is made in the form of pipes 7 with a granulated catalyst, placed into the casing 9. The pipes ends 7, provided with perforated discs 5 are fixed into the frontal covers 1, 10 in the fuel and water feeding places on one hand and in the gas-escape places - on the other hand, and onto the pipes 7 there are fitted recuperative plates 15.

The technical result consists in increasing the heat exchange surface and recuperation of the combustion gases heat.

Claims: 1

Fig.: 2