

Air heater has closed cover with branch pipes for inlet and outlet of air, heat exchanger, fan. Heat exchanger together with connected to it unit for forming hot air resting on the bottom of the housing has outlet outside the housing, installed with a gap in circular form towards the surface of the housing; and the heat exchanger itself is made of a set of cut hollow cones, connected at one axis between each other branch pipes, with washers of changing the direction of the air flow, installed with a gap under the base of the cut hollow cones, with separators of the hot gas flow at the beam in each cut hollow cone and unit for forming hot gases, this is made without lining at the side of the branch pipe of the air outlet from the air heater; with the fan outside the case, this is connected to the branch pipe of air outlet. As the result of implementation of the heat exchange surface proposed pulsing turbulent-linear motion of hot gases is achieved, and motion of air being heated in counter-flow to hot air and in broken line round the heat exchange surface. At that, the contact of the hot gases and air with the surface being heated becomes more close, increase of the coefficient of heat transfer is achieved, and efficiency of work is increased, with increase of the area of application due to use of different types of fuel.