

Method for thermal processing food products includes feeding the product into capacity, product processing with IR-irradiation with simultaneous mixing of processed product at the capacity rotation, and its discharge from the capacity. The product is placed on the inner lateral surface of rotating capacity by circular layer around the axle of rotation of the capacity. At that the product is placed at the inter turn space of the screw working element, placed in the capacity in a manner that its screw surface is plunged into the product. The capacity and screw working element are rotated in the same direction with a rate providing formation and circular movement around the axle of the capacity rotation. The product irradiation with the IR-irradiation is made from the internal cavity of the product circular layer. The product movement alongside the capacity at the account of difference of the rates of rotation of capacity and screw working element.