

The invention relates to the field of special electrometallurgy, and particularly – to a method for electron beam remelting of steels and alloys, and can be used for producing flat ingots in electron beam plants. The method involves a dosed supply of liquid metal to the crystallizer, displacement of liquid metal in the crystallizer, at that temperature of surface of previous poured layer before the front of displaceable liquid metal is maintained by heating with electron beams up to removing the surface tension. Liquid metal in the crystallizer is displaced by putting the crystallizer at an angle of 2-7° relative to the horizon before pouring each next portion and transfer of crystallizer in the horizontal position just after pouring. Use of invention allows to increase the ingot quality due to improving of melting together portions of metal.