

The invention relates to special electrical metallurgy, namely to a method for electron-beam pitting of surface of cylindrical ingot of large diameter. The method for electron-beam pitting of surface of cylindrical ingot of large diameter comprises the heating by electron beams of ingot surface, formation of bath of liquid metal along its generating line and rotation of ingot around of its horizontal axis. Preliminary surface of ingot is heated by defocused electron beams to temperature 600-800 °C at its rotation. The invention provides preliminary degasification of surface layer of ingot for qualitative formation of bath of liquid metal along its generating line ingot.