

Title (en)
METHOD AND APPARATUS FOR CONTROLLING AN ELECTRON BEAM WELDING GENERATOR

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Application
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Abstract (en)
[origin: US4236058A] A method of and apparatus for regulating an electron-beam welding generator of the kind having three electrodes viz: a cathode, a Wehnelt electrode and an anode. The method is characterized by a suitable combination of two methods of regulating an electron beam welding gun. One of these methods includes varying and regulating the very high voltage while maintaining the voltage applied to the Wehnelt electrode at the potential of the cathode (operation of the "diode" kind). The other method includes holding the very high voltage constant while regulating or programming the welding current by means of the voltage to the Wehnelt electrode (operation of the "triode" kind). The variations in and regulation of the very high voltage are controlled by an induction regulator associated with a thyristorized regulator.

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