

The invention refers to the electromeasuring devices and radio electronics and may be used in the production of electric wires, for example, of cast microwires obtained by means of their casting from the metal or alloy liquid phase, as well as for their coating with glass jacket and insulation in the casting process.

The process permits to obtain high-precision current-carrying wires of predetermined section and homogeneity which assures obtaining of high-quality wires.

The process consists in that during the entire process of their casting it is continuously measured the section of the cast wire's conductor by comparing it with the section of the standard wire, there are corrected the possible deviations of the real section of the obtained wire from that of the standard one, by modifying the wire casting regime, consecutively conducting, through the wire cast in equal time intervals, currents of values $i(t)$ and $i(t)/2$, correspondingly, at the same time the current of value $i(t)$ is conducted through a portion of cast wire of a defined length, and the current of value $i(t)/2$ is conducted through the series circuit composed of the portion of the cast wire and the standard wire of predetermined section and length; afterwards there are compared the voltage drops on said portions of the wire, then with the voltage, equal to their difference, it is acted on the wire casting device, modifying its regime as long as the section of the cast wire becomes equal to the section of the standard wire.

Claims: 1

Fig.: 2