

**97-0142**

The invention relates to the electrophysical methods for material machining of electroconducting pieces surface for changing the mechanical and physical properties of the surface.

The summary of the process for electrospark alloying consists in the fact that the electric current impulses are conducted between the working electrode and the piece. The main current impulses are alternated to the additional ones so that after each main impulse run from 1 to 3 additional impulses having a power of 30% to 70% from the main current impulse power and the interval before each additional impulse is from 2 to 5 durations of the previous current impulse.

The technical result consists in the electrospark burnishing of the worked surface roughness by the additional current impulses action.

Claims: 1

Fig.: 1