

a 2019 0002

The invention relates to electroplating, namely to a process for deposition of coatings from a nickel-based electrolyte on the surface of metal products.

The process, according to the invention, comprises deposition of a nickel coating from an electrolyte, containing, g/L:  $\text{NiSO}_4 \cdot 7\text{H}_2\text{O}$  – 320,  $\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$  – 60,  $\text{H}_3\text{BO}_3$  – 40,  $\text{Cr}_2(\text{SO}_4)_3 \cdot 6\text{H}_2\text{O}$  – 0.5...2.5,  $\text{Na}_2\text{C}_2\text{O}_4$  – 0.5, at an electrolyte temperature of 30...50°C and a cathodic current density of 0.2...0.8 kA/m<sup>2</sup>, using a three-phase current source and an inductive-capacitive device, connected in series into the feed circuit of the galvanic bath, at the same time the device is formed of two units – capacitive and inductive, connected in parallel to each other, the inductive unit has an inductance within the limits 0.1...10.0 H, and the capacitive unit has a total capacity within the limits 0.001...0.11 F.

Claims: 1

Fig.: 5