

ABSTRACT

Electroplating in instrumentation. Development of technology of shiny nickel plating on brass parts.

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Diploma project. Number of pages –93, tables –32, pictures –3, sources – 12, applications - 2, 2015.

In the project, developed technology of applying decorative and protective coating from nickel sulphate electrolyte on brass parts.. Based on the comparison of the characteristics of electrolytes for nickel proposed optimal electrolyte composition containing additives butyndiol andbenzene sulfamid. It was chosen the mode of electrolysis - temperature of 50 °C, a cathodic current density 5A/dm²and tension of 3,4 B. In the project it is carried out design and technological calculations, the scheme of automatic control of process of a nickel plating is developed. Calculations of energy economy and salary executed. In the project the scheme of a sewage disposal is used by a electrocoagulationmethod, harmful and dangerous production factors are analyzed and actions for the accident prevention and labor protection are offered.

Keywords: nickel-plating, sulphatic electrolyte, stationary bathtub, balance of tension, electrocoagulation method of a sewage disposal.

					ДП ХК0124.1450.00.000 ПЗ	Арк.
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Змн.	Арк.	№ докум.	Підпис	Дата		