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The invention relates to the metal surface impregnation and may be used in diverse fields of industry for hardening and loss of strength of pieces, electroplating and removal of metal portions from them.

The process for metal surface impregnation includes the submersion of the workpiece into the process liquid, conduction of the electric current between the workpiece and the process liquid and cooling of the workpiece. The process liquid consists of two immiscible components: dielectric and electrolyte, the dielectric density exceeding the electrolyte density into the electrolyte layer with the subsequent cooling into the dielectric layer.

The technical result of the invention consists in the piece surface impregnation possibility by parts.

Claims: 2

Fig.: 1