

The invention relates to the field of information technologies and is meant for identification of material resources, in particular for identification of metal articles.

The process for applying an identification tag on a current-conducting object consists in the imprinting on the object of an identification number, on which it is mechanically applied a coordinate grid with the subsequent application thereon of an individual image, made by electric discharges between the object and an electrode with a channel, to which is applied high voltage. At the same time into the interstice between them through the electrode channel it is advanced a mixture of current-conducting dispersed powders, obtained by mixing different in dimension and content types of powder fractions.

The plant for applying an individual image on the current-conducting object by electric discharges includes an electrode (1), placed vertically and connected to a high-voltage source (2). Into the electrode (1) it is made a channel. The electrode (1) is provided with a vibrator (3) and with a system for introduction of the mixture of current-conducting dispersed powders into the channel of electrode (1). The system consists of reservoirs (4) for current-conducting disperse powders of different in dimension and content types of fractions, equipped with powder batchers (6) connected to a central control unit (7) by means of a random number generator (8). The branches of the reservoirs (4) are joined with a mixing device (5), placed above the channel of electrode (1).

Claims: 4

Fig.: 2

