

The invention relates to the field of information technologies and can be used for the formation of identification tags by electrochemical metal working and creation of databases of solid material resources, particularly, of electrically conducting material.

The method for identification of the current-conducting object includes application on the object of an identification tag, consisting of an identification number, a coordinate-information grid and an individual image, obtained by electric current application to the object and to an electrode, installed with gap above it and formed of sections, connected to a low-voltage power supply through a random number generator. At the same time, in the gap between them it is advanced a liquid electrolyte. The obtained tag is recorded in the memory of the computer, and identification of object is carried out by comparing the tag from the identified object with the recorded one.

The plant for application of an individual image on the current-conducting object includes an electrode (2) formed of sections (5) and installed with gap (1) above the object (3). Each section (5) is connected to a displacement device (8) and to a low-voltage electric current source (6) through a random number generator (7). The plant also includes a system for pumping (9) the liquid electrolyte (4) into the gap (1) between the electrode (2) and the object (3), which is provided with an electrolyte advancement regulator devise (10), connected to an electrolyte consumption control unit (11) through the random number generator (7).

Claims: 7

Fig.: 4

