

The invention relates to the field of identification of material resources and can be used for identification of current-conducting parts in mechanical engineering, aircraft building, defense branch etc.

The method for identification of the current-conducting object consists in that it is imprinted thereon an identification number, on which it is applied an information coordinate grid, on which, in its turn, it is applied an irreproducible image by point electric discharge between the object and an electrode, made of nanocomposites of superdispersed metal powders, installed with interstice above the information grid. Afterwards the grid with the obtained irreproducible image is entered in an electronic database, at the same time according to the law of random numbers on the irreproducible image is selected at least a spot, the coordinates of which on the information grid and its spectral characteristics are entered in an independent electronic database. The identification of the object is carried out, in the first stage, by comparing the identification number and the obtained image with those entered in the electronic database and in the second stage by comparing the identification number and the spectral characteristics of the randomly selected spot with those entered in the independent electronic database.

Claims: 1

Fig.: 1