

The invention relates to electrochemical machining of metals and to the field of information technology and can be used in the creation of information systems for the identification of material resources, made of current-conducting materials. The device for applying the individual image on a current-conducting object comprises a vacuum chamber made of a dielectric material with a working part of a metal foil, fixed onto an inner substrate. In the upper part of the vacuum chamber is placed a number of pointed electrodes which, together with the metal foil, are connected to a high-voltage source through a random number generator, at the same time the metal foil and the current-conducting object are connected to a low-voltage source. The inner substrate is provided with hermetic hollow tubes, the inner surface of which is covered with a porous capillary structure. The upper ends of the tubes are immersed at the same depth into a collector in the form of a flow-through heat exchanger, at the same time each tube is filled with a volatile liquid in a volume that is one third larger than the total volume of the capillary structure pores and is installed in the space between the pointed electrodes.

Claims: 1

Fig.: 2