

The invention relates to electrodeposition in particular to processes and devices for deposition of composite electroplating onto the cylindrical surface.

Summary of the process consists in, that deposition of the composition is carried out by several flows of the electrolyte suspension, different in velocity and direction.

The device for realization of the process contains a cylindrical bath (1) with assembly wherein there is placed a cathode (9) with holes (5) in the upper part, and an anode (10) installed with the possibility of rotation. Onto the lower part of the node there is fit a confuser (6), wherein there is installed an axial impeller (8). One end of the pipe (7) begins from the cathode (9) and the other one does not reach the bottom of the bath (2). Between the cathode (9) and the holes of the assembly (5) there is installed an annular diffuser (12), and onto the upper end of the anode (10) – an insulating cover (11). The bottom of the bath (2) in the centre is made in the form of funnel.

The cell, according to the invention, contains a bearing nozzle with cathode, placed coaxially with the hollow cylindrical anode with outlet nozzle and holes, made at an angle of  $30...40^\circ$  in radial direction and of  $50...60^\circ$  with the axis of anode and placed in the lower and upper parts thereof, and/or in the outlet nozzle. The bearing nozzle is made with confuser, and the lower lateral hole of the cathode is covered with a plug with conic head. The soluble anode and the insoluble annular segments are put onto an insoluble tube.

Also the anode in the cell may contain holes, made at an angle of  $120...130^\circ$  with the axis of anode, placed in the middle and upper parts thereof, and/or in the outlet nozzle. The lower parts of the bearing nozzle and of the anode are elongated by a confuser and a funnel, and the inner anode space is divided in the middle and between the holes by a plug.

Claims: 4

Fig.: 7

