

Method and device for regenerating an electroless metal deposition bath by electrodialysis

Abstract:

A method and a device for regenerating by
5 electrodialysis an electroless metal deposition bath
containing hypophosphite ions, preferably a nickel
deposition bath, is described. As compared with known
methods and devices, in which the bath solution is led
through diluate compartments Di1a in a first
10 electrodialysis unit E1 having cathodes Ka and anodes
An, which compartments are separated from concentrate
compartments Ko1a, Ko1b in the electrodialysis unit on
the cathode side by monoselective cation-exchange
membranes KS and on the anode side by anion-exchange
15 membranes A, the diluate compartments Di1a and the
concentrate compartments Ko1a, Ko1b being disposed
alternately to one another, the method according to the
invention and the device differ in that the bath
solution is led simultaneously through diluate
20 compartments Di2a, Di2b in a second electrodialysis unit
E2 having cathodes Ka and anodes An, which
compartments are separated from concentrate
compartments Ko2a in the second electrodialysis unit E2
on the cathode side by monoselective anion-exchange
25 membranes AS and on the anode side by anion-exchange
membranes A, the diluate compartments Di2a, Di2b and the
concentrate compartments Ko2a in the second
electrodialysis unit E2 being disposed alternately to
one another.

30 (Fig. 1)