

Title (en)  
PLATING DEVICE FOR MINUTE PORTIONS OF CONNECTOR TERMINALS

Publication  
**EP 0222232 B1 19920122 (EN)**

Application  
**EP 86114812 A 19861024**

Priority  
• JP 25094985 A 19851111  
• JP 28121785 A 19851216

Abstract (en)  
[origin: EP022232A1] This invention relates to an electro-plating device which is suitable for plating minute portions on protruding tip ends of a connector terminal (10). This invention device uses either a plating solution supplying member in the form of a thin box which is erected upon a plating solution supplying box and which has a thickness small enough to be inserted between opposing plating areas. The plating areas are a pair of protruding tip ends of the connector terminal which move in contact with or near the supplying member or a plating solution (18) supplying member (13) in the form of a substantial arrowhead shape which has sloped guide planes on both sides and which a top portion can be inserted between opposing plating areas. In the former: the plating solution supplying member comprises a combination of a supporting member made of an insulating sheet having a vertical section substantially shaped like an inverted letter U and a plating solution retaining member of a net or porous sheet which is supported by the supporting member to drape over the outer surfaces thereof. The supporting member is bored with plural holes for supplying plating solution which are arranged discretely in the longitudinal direction at the positions corresponding to the plating areas or close thereto. The plating solution is constantly supplied to the plating solution retaining member via the plural holes to seep thereon. The plating areas are electro-plated at minute portions thereof by contacting with the plating solution which is seeped out of the retaining member. In the latter: a plating solution supply member comprises a support member, anode (19), net member (16) and winding means (32). The support member has a top portion substantially forming an arrowhead with slanted guide planes on both sides. An opening is provided at or near the tip of this top portion to allow seepage of the plating solution. The net member covers the top portion of the support at its tip as well as the surface in its vicinity, the net member being freely wound up in the direction intersecting the passage line by the winding means and forming a supply section for the plating solution at a location corresponding to said passage line. With this construction, minute target portions are contacted with the plating solution which seeps on the net member while preventing the net member from being worn at given locations.

IPC 1-7  
**C25D 5/02**

IPC 8 full level  
**C25D 5/02** (2006.01)

CPC (source: EP)  
**C25D 5/02** (2013.01)

Cited by  
DE4405919A1; EP0370239A1; DE3839223C1; FR2657199A1; BE1005582A5; US6149791A; EP0859071A3; EP0698677A3; CN104313668A; CN104498988A

Designated contracting state (EPC)  
CH DE GB LI NL

DOCDB simple family (publication)  
**EP 0222232 A1 19870520; EP 0222232 B1 19920122;** DE 3683595 D1 19920305

DOCDB simple family (application)  
**EP 86114812 A 19861024;** DE 3683595 T 19861024