

Title (en)

Gelled noble metal electrolyte

Title (de)

Gelförmiger Edelmetallelektrolyt

Title (fr)

Electrolyte sous forme de gel comportant un métal noble

Publication

EP 0867528 A1 19980930 (DE)

Application

EP 97105203 A 19970327

Priority

EP 97105203 A 19970327

Abstract (en)

Gelatinous noble metal electrolyte for electroplating metal substrates with noble metal layers contains a noble metal salt (I) and a gelling agent (II) in aqueous solution. (I) is free from cyanide and (II) is a hydrophilic organic polymer selected from polysaccharides, polyacrylic acid derivatives or polyethylene glycols. Also claimed is a method of producing the electrolyte by adding (II) to a (I) solution and homogenising until a viscous, gelatinous consistency is obtained.

Abstract (de)

Die Erfindung betrifft gelförmige Edelmetallelektrolyte zur galvanischen Abscheid von Edelmetallschichten auf metallischen Werkstücken. Diese enthalten in wässriger Lösung ein cyanidfreies Edelmetallsalz und als Gelbildner ein hydrophiles organisches Polymer aus den Klassen der Polysaccharide, der Polyacrylsäurederivate oder der Polyethylenglycole.

IPC 1-7

C25D 3/46; **C25D 3/48**; **C25D 3/52**; **C25D 3/00**; **C25D 5/06**; **C25D 5/18**

IPC 8 full level

C25D 3/00 (2006.01); **C25D 3/46** (2006.01); **C25D 3/48** (2006.01); **C25D 3/52** (2006.01)

CPC (source: EP)

C25D 3/00 (2013.01); **C25D 3/46** (2013.01); **C25D 3/48** (2013.01); **C25D 3/52** (2013.01)

Citation (search report)

- [X] WO 9105085 A1 19910418 - COURTAULDS COATINGS HOLDINGS [GB]
- [A] FR 1585169 A 19700109
- [A] GB 406767 A 19340308 - GRACE ELLEN ADEY
- [A] US 4997529 A 19910305 - TOTSUKA NOBUO [JP], et al
- [A] US 4465564 A 19840814 - FLETCHER AUGUSTUS [US], et al
- [A] DATABASE WPI Section Ch Week 8732, Derwent World Patents Index; Class L03, AN 87-226038, XP002039750
- [A] CHEH: "Gold plating on copper substrates from gel electrolytes", J. ELECTROCHEM. SOC, vol. 118, no. 4, 1971, pages 681-683, XP002039749

Cited by

EP1956117A1; EP2923055A4; CN105297112A; WO2016093782A1; WO2014081723A1; US9726271B2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0867528 A1 19980930; DE 19811006 A1 19981126

DOCDB simple family (application)

EP 97105203 A 19970327; DE 19811006 A 19980313