

Title (en)  
Multiple bath electrodeposition

Title (de)  
Mehrfachbad Elektroplattierung

Title (fr)  
Electrodeposition par bains multiples

Publication  
**EP 1256639 A1 20021113 (EN)**

Application  
**EP 01111055 A 20010508**

Priority  
EP 01111055 A 20010508

Abstract (en)  
A method and apparatus for fabrication of thin multilayers, multilayered nanowires, and nanocomposites, with the purpose to complete the actually developing nanotechnologies, are described. A closed electrochemical system with multiple baths, protected by inert gas, where the chemical solutions are transferred there and back between different chemical tanks and an electrochemical cell, are used to produce thin, in nanometer-range, multiple layer depositions on a substrate which stays on a fix position for all the deposition cycles inside the electrochemical cell. A special transfer method protect the system from the cross contamination between different chemical solutions, and a particular way of cleaning, protect the deposited layers from the undesirable surface reactions. <IMAGE>

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**C25D 5/10**; **C25D 17/00**

IPC 8 full level  
**C25D 5/10** (2006.01); **C25D 17/00** (2006.01)

CPC (source: EP US)  
**C25D 5/10** (2013.01 - EP US); **C25D 17/00** (2013.01 - EP US)

Citation (search report)

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**EP 01111055 A 20010508**; EP 0204888 W 20020503; EP 02750883 A 20020503; US 47734502 A 20020503