

Title (en)

PROCESS FOR PRODUCING COMPOSITE-PLATED MATERIAL

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES VERBUNDPLATTIERTEN MATERIALS

Title (fr)

PROCÉDÉ SERVANT À PRODUIRE UNE MATIÈRE RECOUVERTE D'UN COMPOSITE PAR ÉLECTRODÉPOSITION

Publication

**EP 1939331 A1 20080702 (EN)**

Application

**EP 06798083 A 20060912**

Priority

- JP 2006318472 W 20060912
- JP 2005284303 A 20050929

Abstract (en)

There is provided a method for producing a composite plated product wherein a coating of a composite material containing carbon particles in a silver layer is formed on a substrate by using a composite plating solution wherein carbon particles treated by an oxidation treatment and a silver matrix orientation adjusting agent are added to a silver plating solution, the method being capable of preventing the wear resistance of the composite plated product from being deteriorated even if the current density in a plating process is increased. The molar ratio of silver to free cyanogen in the composite plating solution is adjusted so as not to be less than 0.7, preferably so as to be in the range of from 0.7 to 1.3. The silver matrix orientation adjusting agent contains selenium ions, and is preferably potassium selenocyanate. The concentration of the silver matrix orientation adjusting agent in the composite plating solution is adjusted so as to be in the range of from 5 mg/l to 20 mg/l.

IPC 8 full level

**C25D 15/02** (2006.01); **C25D 3/46** (2006.01)

CPC (source: EP US)

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Cited by

EP3636804A1; EP2902533A4; EP2749673A4; US9646739B2; US11542616B2; WO2020074552A1; US9534307B2

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