

## Title (en)

PROCESS FOR DEPOSITING STRONG ADHEREND POLYMER COATING ONTO AN ELECTRICALLY CONDUCTIVE SURFACE

## Title (de)

VERFAHREN ZUR ABSCHIEDUNG EINER STARK ADHÄRENTEN POLYMERBESCHICHTUNG AUF EINE ELEKTRISCH LEITFÄHIGE OBERFLÄCHE

## Title (fr)

PROCEDE POUR DEPOSER UN REVETEMENT POLYMERE A FORTE ADHERENCE SUR UNE SURFACE ELECTRO-CONDUCTRICE

## Publication

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## Application

**EP 02747375 A 20020603**

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## Abstract (en)

[origin: WO02098926A2] Process for depositing by electrografting a strong adherent polymer coating onto an electrically conductive surface comprising an electrochemical grafting at the surface of an active monomer for forming a primer coating P onto said surface and having as general formula: X0 (meth)acrylate wherein X is either part of a preformed polymer or is an intermediate agent for polyaddition reaction or is an anchoring group for attachment of a molecule having at least one complementary reactive group. Such process allows formation of new primer by one-step electro-grafting of a reactive polymer called macromonomer. Such process also allows further modification of an initial electrografted polymer (called primer coating) to increase the coating thickness by the so-called grafting-from technique i.e. polymerization of a second monomer or to introduce other types of polymers(also called top coating) via covalent attachment between the primer and the top coating through the X ester group by the so called grafting onto technique. Such process also allows to graft onto the primer coating compounds like functional polymer, peptide, protein, oligonucleotide, dyes, drugs, anti-bacterian compounds.

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