

FORMATION OF ORGANIC ELECTRO-GRAFTED FILMS ON THE SURFACE OF ELECTRICALLY CONDUCTIVE OR SEMI-CONDUCTIVE SURFACES

5 Abstract

The invention relates to a method for grafting an organic film onto an electrically
conductive or semiconductive surface by electro-reduction of a solution, wherein the
solution comprises one diazonium salt and one monomer bearing at least one chain
10 polymerizable functional group. During the electrolyzing process, at least one protocol
consisting of an electrical polarization of the surface by applying a variable potential over
at least a range of values which are more cathodic than the reduction or peak potential of
all diazonium salts in said solution is applied. The invention also relates to an electrically
conducting or semiconducting surface obtained by implementing this method. The
15 invention further relates to electrolytic compositions.

Fig. 2