

Title (en)  
ANTI-STATIC MULTI-FUNCTIONAL LAYER AND METHOD FOR USE OF THE SAME

Title (de)  
ANTISTATISCHE MULTIFUNKTIONSSCHICHT UND VERFAHREN ZUR VERWENDUNG DERSELBEN

Title (fr)  
COUCHE MULTIFONCTION ANTISTATIQUE ET PROCÉDÉ D'UTILISATION DE LADITE COUCHE

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Application  
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Abstract (en)  
[origin: WO2008101363A2] The invention relates to an anti-static multi-functional layer for finishing and coating substrates and for introducing the polymer/particle composites contained in the multi-functional layer into substrates. Said layer has a polymer matrix containing at least one polymer compound and at least one non-metallic particle type and/or a metallicity conductive particle type in combination with a metallic electrolyte. The particle combination is encapsulated by a coating matrix, thus forming a multi-functional layer. A virtually continual discharge of the static charge that occurs is guaranteed by the electrochemical reaction taking place in said layer and produces a charge neutralisation. The invention describes several methods, in which the anti-static multi-functional layer is used, for example to finish textiles, to coat plastic film and coverings and to introduce the polymer/particle composites contained in the multi-functional layer into a plastic.

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