

Title (en)

PRODUCTION OF TRANSPARENT ELECTRODES MADE FROM METALLIZED CARBON NANOTUBES

Title (de)

HERSTELLUNG VON TRANSPARENTEN ELEKTRODEN AUS METALLISIERTEN KOHLENSTOFFNANORÖHREN

Title (fr)

ELABORATION D'ELECTRODES TRANSPARENTES EN NANOTUBES DE CARBONE METALLISES

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Application

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Abstract (en)

[origin: WO2012131578A1] The invention relates to a method for forming a film on the surface of a substrate, said film being electrically conductive and transparent in the visible-wavelength range. The substrate is made from an electrically non-conductive material, and the method includes the following steps consisting in: a) depositing carbon nanotubes, preferably single-walled and metal, on the surface at a density of between 0.1 and 40, inclusive, carbon nanotubes per μm^2 of surface area, and preferably between 1 and 10, inclusive, carbon nanotubes per μm^2 of surface area; and b) electroforming a layer of metal having a thickness of between 0.1 to 10 nm inclusive on the outer surface of the carbon nanotubes deposited in step (a). The invention is particularly suitable for use in the field of electrode manufacturing.

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