

Title (en)

A SECURITY ELEMENT AGAINST COUNTERFEITING SECURITY PRINTING, ESPECIALLY BANKNOTES

Title (de)

SICHERHEITSELEMENT GEGEN NACHAHMUNG VON SICHERHEITSDRUCK, INSbesondere VON BANKNOTEN

Title (fr)

ÉLÉMENT DE SÉCURITÉ CONTRE LA CONTREFAÇON D'UNE IMPRESSION DE SÉCURITÉ, EN PARTICULIER DES BILLETS DE BANQUE

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Application

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Abstract (en)

[origin: EP3150399A1] The present invention is a security feature (1) against counterfeiting security printing (3), in particular banknotes, comprising at least one graphene quantum dot (GQD) that is graphene nanoparticle diametre of from 0.5 nm to 60 nm, preferably 1 nm 11 nm, containing from 1 to 90, preferably from 1 to 20 layers of graphene disposed in the flexible layer of graphene nanocomposite material (2), wherein the elastic layer of graphene nanocomposite material (2) comprises at least one layer of graphene (G) arranged on the adhesive layer (P), preferably a polymer. The invention also includes the use of the security feature according to the invention, and method and system for verifying the authenticity of security printing (3).

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