Title (en)

SECURITY ELEMENT HAVING A UV-EXCITABLE FIELD DEPENDENT EFFECT, METHOD FOR VERIFICATION OF SUCH SECURITY ELEMENT AND STRUCTURAL COLOUR COMPOSITION

Title (de)

SICHERHEITSELEMENT MIT UV-ANREGBAREM FELDABHÄNGIGEN EFFEKT, VERFAHREN ZUM VERIFIZIEREN EINES SOLCHEN SICHERHEITSELEMENTS UND STRUKTURFARBE

Title (fr)

ÉLÉMENT DE SÉCURITÉ À EFFET DÉPENDANT D'UN CHAMP ET EXCITABLE PAR UV, PROCÉDÉ DE VÉRIFICATION D'UN ÉLÉMENT DE SÉCURITÉ ET COMPOSITION COULEUR STRUCTURAL

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Application

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Abstract (en)

[origin: WO2015086713A2] The invention relates to a security element (110), to a method for verification of a security element (110), which comprises microcapsules (10) containing colloidal particles (13), which can be arranged and/or rearranged relative to each other in a crystalline structure (15) by means of a structural excitation, which comprises a forming of an electrical and/or magnetic field, wherein the crystalline structure (15) has reflective and/or transmissive properties for light which can be influenced and/or adjusted via the structural excitation, wherein there are additional luminescence pigments which display a luminescence in the case of a luminescence excitation which occurs via an irradiation of UV light, and the luminescence pigments are arranged such that an observable luminescence is dependent on the structural excitation by means of the electrical and/or magnetic field; that is, an observable luminescence at constant UV-excitation can be influenced via the excitation with the electrical and/or magnetic field, and thus varied by the structural excitation.

IPC 8 full level

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