Title (en)
SUPERPOSED SECURITY ELEMENT AND VERIFICATION METHOD

Title (de)
ÜBERLAGERUNGSSICHERHEITSELEMENT UND VERIFIKATIONSVERFAHREN

Title (fr)
ÉLÉMENT DE SÉCURITÉ À SUPERPOSITION ET PROCÉDÉ DE VÉRIFICATION

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Application
EP 14816184 A 20141210

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Abstract (en)
[origin: WO2015086710A1] The invention relates to a superposed security element comprising: at least one substrate layer (32; 33; 35) and a first security structure (81) which is printed using a structure ink, wherein the structure ink comprises microcapsules (10) in which colloidal particles are dispersed in a medium and can be oriented relative to one another by means of an electric field and/or a magnetic field in order to create and/ or change a crystal structure, wherein distances between the particles are critical to the colour impression of the structure ink, and an excitation structure (61) which generates an electric or magnetic field, wherein the excitation structure (61) is formed spatially separate from the security structure (81) on the at least one substrate layer (31) or a further substrate layer (32; 33; 35) connected to the at least one substrate layer (31), wherein the arrangement of the security structure (81) and of the excitation structure (61) on the at least one substrate layer (31) or on the at least one substrate layer (31) and the further substrate layer (32; 33; 35) is such that a superposed state can be brought about, in which the security structure (81) and the excitation structure (61) superpose one another in a flat manner, and a non-superposed state can be brought about, in which the excitation structure (61) and the security structure (81) are not superposed in a flat manner, and wherein the excitation structure (61) is designed in such a way that it brings about in the superposed state a change in the optically perceptible colour impression of the security structure (81) compared to the non-superposed state, as well as a method for verifying a superposed feature.

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