

Title (en)

SECURITY ELEMENT WITH COLOUR-FILTERING GRATING

Title (de)

SICHERHEITSELEMENT MIT FARBFILTERNDEM GITTER

Title (fr)

ÉLÉMENT DE SÉCURITÉ COMPORTANT UNE GRILLE FILTRANT LES COULEURS

Publication

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Application

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Abstract (en)

[origin: WO2017005346A1] The invention relates to a security element for a valuable document, wherein the security element (1) comprises a two-dimensionally regular pattern (6) of individual cylindrical surface elements (3) composed of high refractive index, more particularly metallic, material, which lie in a grating plane (7), are spaced apart from one another by gaps (4) and are embedded into a dielectric (2, 5) on all sides, wherein the regular pattern (6) has a periodicity (d) of 100 nm to 800 nm, preferably of 200 nm to 500 nm, in at least two directions running parallel to the grating plane, wherein the gaps (4) between the surface elements (3) likewise comprise only dielectric (2, 5) in a region of at least 1 µm perpendicular to the grating plane (7).

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