

Title (en)  
SAFETY AND/OR VALUABLE DOCUMENT HAVING A PHOTONIC CRYSTAL

Title (de)  
SICHERHEITS- UND/ODER WERTDOKUMENT MIT PHOTONISCHEM KRISTALL

Title (fr)  
DOCUMENT DE SÉCURITÉ ET/OU DE VALEUR À CRISTAL PHOTONIQUE

Publication  
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Application  
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Abstract (en)  
[origin: CA2677418A1] The invention relates to a safety and/or valuable document having a safety element, wherein the safety element has a photonic crystal arranged on a substrate in relation to an orientation defined on a surface of the substrate, and a luminescent substance. It is characterized in that an emission wavelength  $\lambda$  of the luminescent substance, and a grid constant of the photonic crystal are aligned with each other and specified according to the formula  $\lambda = m \cdot 2 \cdot d$ , wherein  $d$  is a distance between two lattice planes of the photonic crystal, and  $m$  is a positive integer.

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