

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

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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 λ 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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