

Title (en)

METHOD FOR PRODUCING A SECURITY ELEMENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SICHERHEITSELEMENTS

Title (fr)

PROCÉDÉ POUR LA PRODUCTION D'UN ÉLÉMENT DE SÉCURITÉ

Publication

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Application

**EP 16787740 A 20161003**

Priority

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Abstract (en)

[origin: WO2017055634A1] The invention relates to a method (100) for producing a security element (1) with a metallized optical diffraction structure (8) in an imprinted coating layer (3). A coating layer (3) is applied onto a support (2), and the layer is imprinted and cured. By means of the imprinting process of the coating layer (3), structural depressions (6), structural elevations (7), and an optical diffraction structure (8) are produced. A reflective layer (9, 9') is subsequently provided on the structural depressions (6) and the structural elevations (7) of the imprinted coating layer (3) by means of a metallization process, and the reflective layer (9, 9') is then selectively demetallized. The aim of the invention is to provide a simple and reliable method for producing a security element. According to the invention, this is achieved in that the optical diffraction structure (8) is imprinted on at least one structural elevation (7), and the selective demetallization process includes a step of connecting at least the metallized structural elevation (7) which has the optical diffraction structure (8) to a transfer support (11) and a subsequent step of separating the structural elevation (7) connected to a transfer support (11) both from the support (2) as well as from at least one metallized structural depression (6) adjoining the structural elevation (7) by removing the transfer support (11) from the support (2).

IPC 8 full level

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