

Title (en)  
SECURITY ELEMENT AND METHOD FOR ITS PRODUCTION

Title (de)  
SICHERHEITSELEMENT UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
ÉLÉMENT DE SÉCURITÉ ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2004420 B1 20140813 (DE)**

Application  
**EP 07723373 A 20070319**

Priority

- EP 2007002406 W 20070319
- DE 102006015023 A 20060331

Abstract (en)  
[origin: DE102006015023A1] The security element (20) has a diffraction pattern, which exhibits a coined relief structure and a top layer increasing the visibility of the diffraction effect of the coined relief structure. The relief structure is formed on basis of a cholesteric, liquid crystalline polymer material and top layer contains a reflecting or a high-refracting layer. The liquid crystalline material of the relief structure is present in the form of pigments embedded in a binder matrix. Independent claims are also included for the following: (1) a value document e.g. bank note, cheque, certificate, identification card, which is provided with security element (2) a method for the manufacturing of a security element.

IPC 8 full level  
**B42D 15/00** (2006.01); **B42D 25/00** (2014.01); **G07D 7/12** (2006.01)

CPC (source: EP US)  
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