

Title (en)  
SECURITY ELEMENT COMPRISING MACROSTRUCTURES

Title (de)  
SICHERHEITSELEMENT MIT MAKROSTRUKTUREN

Title (fr)  
ELEMENT DE SECURITE COMPORTANT DES MACROSTRUCTURES

Publication  
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Application  
**EP 03720418 A 20030403**

Priority

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Abstract (en)  
[origin: WO03084766A2] The invention relates to a security element (2) to be glued onto a document (3), which comprises a plastic composite structure (1) and embedded, optically effective structures of a pattern (4). The optically effective structures in subareas (13) of the pattern (4) lie in a reference plane of the composite structure (1) defined by a coordinate axis (x; y) and are molded into a reflective boundary layer. Said boundary layer is embedded between a transparent molding layer and a protective layer of the composite structure (1). At least one subarea (13) has a dimension of larger 0.4 mm and has at least one molded macrostructure (M) in the boundary layer, which macrostructure is an at least partially continuous and differentiated function of the coordinates (x; y). The macrostructure (M) is curved in at least subareas and is no periodic delta function or boxcar function. In the subarea (13), neighboring extreme values of the macrostructure (M) are at least 0.1 mm apart from one another. When the pattern is radiated with light, an optically variable pattern of light reflections is visible on the security element (2) when changing the visual angle.

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