Title (en)

SECURITY ELEMENT

Title (de)

SICHERHEITSELEMENT

Title (fr)

ELEMENT DE SECURITE

Publication

**EP 1434695 A1 20040707 (DE)**

Application

**EP 02776977 A 20020904**

Priority

- DE 10150293 A 20011012
- EP 0209861 W 20020904

Abstract (en)

[origin: WO03033274A1] A security element (2) in the form of a layer composite may be used for the certification of a document (1). The layer composite comprises at least one transparent protective layer, a transparent paint layer and an adhesive layer, whereby the paint layer is arranged between the protective layer and the adhesive layer. A boundary surface embodied as a reflection layer separates the adhesive layer and the paint layer. The boundary surface is divided into regions of a pattern (25) with planar partial surfaces and relief structures moulded into the paint layer. The planar partial surfaces form background surfaces (3) and are mirror surfaces for light incident in the layer composite, whilst the regions with relief structures form pattern elements (4) with a given optically effective structural depth. The relief structures of the pattern elements (4) absorb the incident light. The dark pattern elements (4) form a strong contrast in the reflected light from the mirror background surfaces (3) and the pattern is clearly visible. The contrast between the background surfaces (3) and the pattern elements (4) disappears in directions other than that of the reflected light, such that a copier device reproduces the background surfaces (3) and the pattern elements (4) as black surfaces.

IPC 1-7

**B42D 15/00**; B42D 15/10

IPC 8 full level

**B42D 25/328** (2014.01); **B42D 15/00** (2006.01); **B42D 15/10** (2006.01); **B42D 25/45** (2014.01); **G02B 5/18** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

See references of WO 03033274A1

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