

Title (en)
DIFFRACTIVE SECURITY ELEMENT COMPRISING A HALF-TONE PICTURE

Title (de)
DIFFRAKTIVES SICHERHEITSELEMENT MIT EINEM HALBTONBILD

Title (fr)
ELEMENT DE SECURITE DIFFRACTANT COMPORTANT UNE IMAGE EN DEMI-TEINTE

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Application
EP 04797524 A 20041102

Priority
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Abstract (en)
[origin: WO2005042268A1] The invention concerns a diffractive security element (1) comprising a half-tone picture (2), consisting of diffracting structures which are located in a reflective layer (13) incorporated in a plurality of layers (10), between a transparent embossing layer (11) and a protective coating layer (12). The half-tone picture (2) is divided into picture elements (4) having at least a dimension less than 1 mm. The surface of each picture element (4) comprises a background zone (5) and a pattern picture element (6). The surface occupied by the picture element pattern (6) with respect to the total surface of the picture element (4) determines the brightness of the half-tone picture (2) in one point (P) of the picture element (4). The background zone (5) comprises a first diffracting structure which does not modify the light in the same way as the picture element pattern (6). Pattern strips (36), having a width up to 0.3 mm, can further extend over the surface of the half-tone picture (2). Said pattern strips (36) occupy a small portion of the surface of the background zone (5) and/or of the picture element patterns (6) and form coloured strips (43) on the half-tone picture (2).

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