

Title (en)
SECURITY ELEMENT COMPRISING MAGNETICALLY ALIGNABLE MAGNETIC PIGMENTS AND A SECOND MOTIF, AND METHOD FOR PRODUCING SAME

Title (de)
SICHERHEITSELEMENT MIT MAGNETISCH AUSRICHTBAREN MAGNETPIGMENTEN UND EINEM ZWEITEN MOTIV SOWIE VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
ÉLÉMENT DE SÉCURITÉ DOTÉ DE PIGMENTS MAGNÉTIQUES ORIENTABLES ET D'UN DEUXIÈME MOTIF ET PROCÉDÉ DE FABRICATION CORRESPONDANT

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Abstract (en)
[origin: WO2015078572A1] The invention relates to a valuable and security document consisting of a substrate having a front side and a rear side, wherein a color layer comprising magnetically aligned magnetic pigments is applied to at least one side of the substrate. The color layer forms a first motif in the form of a pattern, a character or a coding, wherein the first motif exhibits a first dynamic movement effect when the valuable and security document is tilted. The first motif is combined with a second motif in the form of a pattern, a character or a coding, wherein the second motif is applied to at least one side of the substrate. The invention furthermore relates to a method for producing a corresponding valuable and security document. According to the invention, the second motif is embodied in the form of an embossed structure having elevated embossed elements having areas of different orientations. In this case, the embossed structure consists of a reflective microstructure in the form of a mosaic composed of a multiplicity of reflective mosaic elements characterized by the parameters: size, contour shape, relief shape, reflectivity and spatial alignment. The mosaic elements form the second motif having a second dynamic movement effect by virtue of the fact that different groups of mosaic elements having different characteristic parameters reflect incident light into different spatial regions. Furthermore, the mosaic elements have a lateral dimensioning of less than 30 µm and below the resolution limit of the eye. In addition, the pattern, the character or the coding of the first motif is at least partly adapted to the pattern, the character or the coding of the second motif.

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