

Title (en)
OPTICALLY VARIABLE SECURITY ELEMENT

Title (de)
OPTISCH VARIABLES SICHERHEITSELEMENT

Title (fr)
ÉLÉMENT DE SÉCURITÉ OPTIQUEMENT VARIABLE

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Abstract (en)
[origin: WO2013064268A1] The invention relates to an optically variable security element (12) for security papers, value documents and other data carriers, with a substantially transparent carrier (20) having opposing first and second main surfaces (22, 24), an arrangement of micro-lenses (26) on the first main surface (22) of the carrier (20), and a laser-sensitive recording layer (32) arranged on the second main surface of the carrier (20). According to the invention, the micro-lens arrangement (26) is furnished with a laser-sensitive cover layer (28) having at least one cut-out (30) produced by the effect of laser radiation and extending over several micro-lenses (26), the laser-sensitive recording layer (32) comprises a plurality (34) of micro-markings (36) produced by the effect of laser radiation, wherein each micro-marking (36) is associated with one micro-lens (26) and is visible through the associated micro-lens (26) during inspection of the security element (12), and the plurality (34) of micro-markings (36) on the carrier (20) is arranged precisely aligned directly opposite the at least one cut-out (30).

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