

Title (en)

PERSONALISED IMAGE FORMED FROM A METAL LAYER AND A LENTICULAR ARRAY

Title (de)

PERSONALISIERTES BILD AUS EINER METALLSCHICHT UND EINEM LINSENRASTER

Title (fr)

IMAGE PERSONNALISEE FORMEE A PARTIR D'UNE COUCHE METALLIQUE ET D'UN RESEAU LENTICULAIRE

Publication

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Application

EP 21823980 A 20211123

Priority

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Abstract (en)

[origin: WO2022112708A1] The invention relates, in particular, to a security document (10) comprising: a metal layer (14) comprising an arrangement of diffractive nanostructures arranged periodically in the metal layer so as to form a diffractive holographic structure forming an arrangement of pixels each comprising a plurality of sub-pixels of distinct colours; a lenticular array (12) comprising convergent lenses (13) positioned facing the metal layer; and a support layer (16) on which the metal layer is disposed so that the metal layer (14) is sandwiched between the lenticular array (12) and the support layer (16). The metal layer comprises perforations (20) formed by focusing laser radiation (RY) through the lenticular array on the metal layer (14), the perforations comprising at least one group of perforations (RY) produced by focusing the laser radiation (RY) at a respective angle of incidence (Θ) so as to reveal a corresponding personalised image (IG) when the security document is observed at this angle of incidence.

IPC 8 full level

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