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(71) Applicant(s):

SICPA HOLDING SA [CH/CH]; Avenue de Florissant 41 1008 Prilly (CH) *(for all designated states)*

(72) Inventor(s):

CALLEGARI, Andrea; Chemin des Berges 4 1022 Chavannes-près-Renens (CH)

DEGOTT, Pierre; Chemin des Falaises 15 1023 Crissier (CH)

DINOEV, Todor; Route de la Maladière 4 1022 Chavannes-près-Renens (CH)

GARNIER, Christophe; Clos les Lauriens 133 74930 Reignier (FR)

MAYER, Alain; Chemin de la Raicettaz 5 1188 Saint-George (CH)

SCHWARTZBURG, Yuliy; Rue de Genève 66b 1004 Lausanne (CH)

TESTUZ, Romain; Rue Beau-Séjour 9b 1003 Lausanne (CH)

PAULY, Mark; Boulevard de Grancy 7 1006 Lausanne (CH)

(74) Agent(s):

HOFFMANN EITL PATENT- UND RECHTSANWÄLTE PARTMBB, ASSOCIATION NO. 151; Arabellastraße 30 81925 Munich (DE)

(54) Title (EN): THIN OPTICAL SECURITY ELEMENT AND METHOD OF DESIGNING IT

(54) Title (FR): ÉLÉMENT MINCE DE SÉCURITÉ OPTIQUE ET SON PROCÉDÉ DE CONCEPTION

(57) Abstract:

(EN): The invention relates to a thin optical security element comprising a reflective or refractive light-redirecting surface having a relief pattern operable to redirect incident light from a light source and form a projected image on a projection surface, the projected image comprising a caustic pattern reproducing a reference pattern that is easily visually recognizable by a person. The invention also relates to a method for designing a relief pattern of a light-redirecting surface of a thin optical security element.

(FR): L'invention concerne un élément mince de sécurité optique comprenant une surface de réorientation de lumière réfléchie ou réfractée présentant un motif en relief utilisable pour réorienter la lumière incidente en provenance d'une source de lumière et former une image projetée sur une surface de projection, l'image projetée comprenant un motif caustique reproduisant un motif de référence qui est facilement reconnaissable visuellement par une personne. L'invention concerne également un procédé de conception d'un motif en relief d'une surface de réorientation de lumière d'un élément mince de sécurité optique.

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