

Title (en)

OPTICALLY VARIABLE SECURITY ELEMENT HAVING REFLECTIVE SURFACE AREA

Title (de)

OPTISCH VARIABLES SICHERHEITSELEMENT MIT REFLEKTIVEM FLÄCHENBEREICH

Title (fr)

ÉLÉMENT DE SÉCURITÉ OPTIQUE VARIABLE AYANT UNE ZONE DE SURFACE RÉFLÉCHISSANTE

Publication

**EP 3000613 B1 20171115 (DE)**

Application

**EP 15002683 A 20150916**

Priority

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Abstract (en)

[origin: CN105437822A] The invention relates to an optically variable security element (12) for securing valuable articles, comprising a support with a reflective surface area (20), the extent of an x-y plane and defines a perpendicular thereto z-axis. According to the invention it is provided that - the reflective surface area (20) includes a plurality of reflective pixels (30) each having one or more, same oriented reflective facets (32), wherein an inclination of each facet (32) against the xy level is determined by the indication of their normalized normal vector - the reflective surface area (20) having a direction indicated by the x-axis preferred orientation, so that more than 80% of the facets (32) of the surface region (20) lying one in the yz plane have normal vector, and - at least a part of the facets (32), and is provided with a diffractive grating pattern (34) from a plurality of grid lines (36) whose grating vector is parallel to the x-axis.

IPC 8 full level

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CPC (source: EP)

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Cited by

EP4389443A1; CN106443880A; CN107848320A; EP4039493A4; GB2574294A; GB2574294B; CN115284770A; EP3507629A4; US10081213B2; US11110735B2; CN115230364A; WO2016177470A1; US11186110B2; US11077699B2; US11774650B2; US11193002B2; JPWO2019004463A1; EP3647834A4; EP4086084A1; DE102021002333A1; EP3793840B1

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