

Title (en)

OPTICAL ANTI-COUNTERFEITING ELEMENT, DESIGN METHOD THEREFOR, AND ANTI-COUNTERFEITING PRODUCT

Title (de)

FÄLSCHUNGSSICHERES OPTISCHES ELEMENT, ENTWURFSVERFAHREN DAFÜR UND FÄLSCHUNGSSICHERES PRODUKT

Title (fr)

ÉLÉMENT ANTI-CONTREFAÇON OPTIQUE, SON PROCÉDÉ DE CONCEPTION ET PRODUIT ANTI-CONTREFAÇON

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Application

EP 22794222 A 20220125

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Abstract (en)

The present invention provides an optical anti-counterfeiting element and a design method therefor, and an anti-counterfeiting product. The optical anti-counterfeiting element has a roughly smooth diffuse reflective curved surface. Incident light is reflected by the diffuse reflective curved surface and then may form a roughly uniform brightness distribution in a range no less than a preset observation angle set Ω_v . the diffuse reflective curved surface comprises modified curved surface regions and unmodified curved surface regions, the modified curved surface regions and the unmodified curved surface regions have different reflective properties, and the modified curved surface regions correspond to the pattern regions of animation frames. When the diffuse reflective curved surface is irradiated by the incident light, the modified curved surface regions collectively appear as a pattern of a dynamic feature, and the unmodified curved surface regions collectively appear as a background of the dynamic features. The fabrication process therefor is simple, and dynamic features such as color and/or bright and dark contrast may be flexibly achieved.

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