

Title (en)

DEVICE AND SYSTEM FOR INSPECTING AT LEAST ONE DIFFRACTIVE OPTICAL ELEMENT OF A DOCUMENT

Title (de)

VORRICHTUNG UND SYSTEM ZUR INSPEKTION ZUMINDEST EINES DIFFRAKTIVEN OPTISCHEN ELEMENTS EINES DOKUMENTS

Title (fr)

DISPOSITIF ET SYSTÈME D'INSPECTION D'AU MOINS UN ÉLÉMENT OPTIQUE DIFFRACTIF D'UN DOCUMENT

Publication

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Application

EP 21723687 A 20210429

Priority

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Abstract (en)

[origin: CA3186158A1] The invention relates to a device for inspecting at least one diffractive optical element DOE of a document, said device having: a document support means for supporting a document to be inspected; a radiation source for coherent electromagnetic radiation; a deflection unit, which is arranged on a first side of the document support means, for deflecting radiation emitted by the radiation source onto the document supported by the document support means; a screen, which is arranged on a side of the document support means opposite the first side, for displaying an image projected onto the screen by transmissive diffractive interaction of the deflected radiation with a DOE provided on or in the document; an image sensor for sensing the image projected on the screen and for providing image data representing the sensed image; and an evaluation means for evaluating the image data in respect of at least one inspection criterion. The deflection unit is configured to be movable in an adjustable manner relative to the document support means such that, during operation of the device, it deflects the radiation emitted by the radiation source onto a corresponding point on the document to be inspected, supported by the document support means, variably depending on the currently set position of the deflection unit.

IPC 8 full level

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CPC (source: EP)

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