

Title (en)

ULTRAVIOLET FLUORESCENT COLOR DETECTION DEVICE AND ULTRAVIOLET FLUORESCENT COLOR DETECTION METHOD

Title (de)

ULTRAVIOLETT-DETEKTOR FÜR FLUORESZENZFARBE ULTRAVIOLETT-DETEKTIONSVERFAHREN FÜR FLUORESZENZFARBE

Title (fr)

DISPOSITIF DE DÉTECTION DE COULEUR FLUORESCENTE ULTRAVIOLETTE ET PROCÉDÉ DE DÉTECTION DE COULEUR FLUORESCENTE ULTRAVIOLETTE

Publication

EP 3474242 B1 20201104 (EN)

Application

EP 17754594 A 20170323

Priority

JP 2017011802 W 20170323

Abstract (en)

[origin: EP3474242A1] There are provided a UV ray fluorescence color detection device capable of simply and accurately detecting a visible fluorescence color emitted from a medium during UV light irradiation, and a method for detecting a UV ray fluorescence color. A UV ray is emitted from a UV light source (first light source portion 4) to the medium. A white light is emitted from a white LED light source (light source in a second light source portion 3) by emitting a fluorescence from a phosphor. A light enters into a plurality of light receiving elements provided in a light receiving portion through at least one visible light color filter. An output signal is obtained from the light receiving elements when the UV light is emitted from the UV light source to the medium, and a fluorescence is emitted from the medium to the plurality of light receiving elements through the visible light color filter, and the output signal is corrected based on an output signal obtained from the light receiving elements when the white light is emitted from the white LED light source to a white reference object 200 and a light is emitted from the white reference object 200 to the plurality of light receiving elements through the visible light color filter.

IPC 8 full level

G07D 7/121 (2016.01); **G06T 1/00** (2006.01); **G07D 7/12** (2016.01)

CPC (source: EP KR)

G07D 7/12 (2013.01 - EP KR)

Cited by

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DOCDB simple family (publication)

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