

Title (en)

APPARATUS AND METHOD FOR DETERMINING A DOSE OF IONIZING RADIATION

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BESTIMMUNG EINER IONISIERUNGSSTRAHLUNGSDOSIS

Title (fr)

APPAREIL ET PROCÉDÉ DE DÉTERMINATION D'UNE DOSE DE RAYONNEMENT IONISANT

Publication

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Application

EP 14714627 A 20140324

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Abstract (en)

[origin: WO2014161732A1] An apparatus for determining a dose of ionizing radiation absorbed by a dosimeter (105) comprises a holder (110) for holding said dosimeter (105); a first light source (120), a second light source (130) and a measurement unit (140a, 140b). The first light source (120) irradiates a first light (121) on said dosimeter (105) when held by said holder (110). The second light source (130) irradiates a second light (131) on said dosimeter (105) when held by said holder (110) to excite radio photo luminescence centers in said dosimeter (105). The measurement unit (140a, 140b) is configured to measure a photo luminescence light (141) from said excited radio photoluminescence centers and to measure a transmission light (142) related to said first light (121) after passing said dosimeter (105), wherein said measurement unit (140) is further configured to determine said dose based on said measured photoluminescence light (141) and on said measured transmission light (142).

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