

Title (en)
METHOD OF PRODUCING X-RAY EXPOSURES

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Application
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Priority
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Abstract (en)
[origin: EP0063644A1] 1. Method of producing X-ray exposures, comprising an X-ray diagnosis apparatus wherein between an object to be exposed (11) or, respectively, a scattered-ray grid (12) and an X-ray exposure image recording system (4) such as a film cartridge there are provided an X-ray shadow-free radiation detector (13), such as an ionisation chamber including measuring fields, of a dosimeter means (5) and a microprocessor system (7) having control functions, characterized in that after preselection of the relative hardness number H and optionally of the exposure field size A, of the measuring field M or, respectively, a measuring field combination, and of the film speed F by means of setting elements provided for this purpose on the X-ray generating means or corresponding control portions (6), upon triggering of the X-ray exposure for determining the object transparency, the X-ray exposure is initially switched with a preprogrammed constant first tube voltage UT1 and with a preprogrammed constant first tube current IT1 until a preprogrammed test dose DT1 has been reached, and a variable which is proportional to the measured time t elapsed until this test dose DT1 has been reached is supplied to the microprocessor system (7), in which stored optimum values for the tube voltage U, the mAs-product Q and the optical density S associated with said value t are activated in dependency on the set values (H; A; M; F) preselected prior to triggering of the exposure and on the target plate distance (FFA), and that subsequently the X-ray exposure is continued to completion by actuation of corresponding setting elements with the activated optimum values for the tube voltage (U) and the mAs-product Q which is corrected relative to the optimum optical density.

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Cited by
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