

Title (en)
X-RAY ARRANGEMENT FOR THE IMAGE REPRESENTATION OF AN EXAMINATION OBJECT AND USE OF THE X-RAY ARRANGEMENT

Title (de)
RÖNTGENANORDNUNG ZUR BILDDARSTELLUNG EINES UNTERSUCHUNGSOBJEKTES UND VERWENDUNG DER
RÖNTGENANORDNUNG

Title (fr)
DISPOSITIF DE RADIOGRAPHIE POUR VISUALISER UN OBJET D'EXAMEN ET UTILISATION DE CE DISPOSITIF DE RADIOGRAPHIE

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Application
EP 06724603 A 20060420

Priority
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Abstract (en)
[origin: WO2006131175A1] For the high-contrast representation of small lesions or other target areas in tissue in the human body containing at least one contrasting chemical element, an X-ray arrangement is described, comprising at least one X-ray radiation source which emits essentially polychromatic X-ray radiation, a first detector or a plurality of first detectors, which can be used to determine values of a first intensity of X-ray radiation transmitted through the examination object, a second detector or a plurality of second detectors, which can be used to determine values of a second intensity of X-ray radiation emitted by the examination object, at least one correlation unit, which can be used to correlate the first intensity values of the transmitted X-ray radiation with the second intensity values of the emitted X-ray radiation pixel by pixel, and at least one output unit for the representation of the examination object from pixel signals obtainable by correlation of the first intensity values with the second intensity values. The transmission and emission images are preferably recorded simultaneously. The method can also be combined with other radiological images, e.g. positron emission tomography (PET) or single photon emission computer tomography (SPECT).

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CPC (source: EP KR)
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