

Title (en)

METHOD AND APPARATUS TO PRODUCE THREE-DIMENSIONAL X-RAY IMAGES

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HESRTELLEN VON DREIDIMENSIONALEN RÖNTGENBILDERN

Title (fr)

PROCEDE ET APPAREIL PERMETTANT D'OBTENIR DES IMAGES RADIOGRAPHIQUES TRIDIMENSIONNELLES

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Application

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Abstract (en)

[origin: WO9714359A1] The present invention provides a method for generating a perceived three-dimensional image of the internal structure of a subject from a series of two-dimensional images, which method comprises directing a beam of X-rays or other penetrating radiation at the subject and capturing the image of the resultant radiation passing through, absorbed, emitted, reflected, scattered and/or diffracted by the internal structure of the subject and viewing a plurality of such images, characterised in that: a) the images are generated by directing penetrating radiation at the subject from a number of points displaced angularly from one another along a path relative to the subject; b) the images are captured for some or all of the said points; c) the images are stored as a sequence of discrete images in a machine readable storage medium having sufficient capacity to store more than two of the images concurrently; d) the images from the storage medium are presented, without significant reconstruction of the individual images, as a series of individual images or pairs of images to an observer, preferably in pairs as if they were stereoscopic pairs of images; and e) the observer selects the speed of presentation of the images and/or the relative direction within the stored sequence of the images at which the images are presented to the observer so as to optimise the three-dimensional depth perceived by the observer. The invention also provides apparatus for use in the method of the invention.

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