

Continuous scan rad tomosynthesis system and method

Technology

An imaging system for performing tomosynthesis on a region of an object comprises an x-ray source, motion controller, an x-ray detector and a processing unit. The x-ray source is positioned at a predetermined distance from the object and continuously moves along a linear path relative to the object. The x-ray source transmits x-ray radiation through the region of the object at a plurality of predetermined locations. The motion controller is coupled to the x-ray source and continuously moves the x-ray source along the path relative to the object. The x-ray source minimizes vibration in the imaging system due to continuous movement. The x-ray detector is positioned at a predetermined distance from the x-ray source and detects the x-ray radiation transmitted through the region of the object, thus acquiring x-ray image data representative of the region of the object. The processing unit is coupled to the x-ray detector for processing the x-ray image data into at least one tomosynthesis image of the region of the object.

Patents

Patent Number: 6,970,531

Title: Continuous Scan RAD Tomosynthesis System and Method

Country: United States of America

Duke

LICENSING & VENTURES



Duke File (IDF)

T-002169



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