

Title (en)
A SYSTEM FOR QUANTITATIVE RADIOGRAPHIC IMAGING

Title (de)
ANORDNUNG ZUR QUANTITATIVEN RÖNTGENBILDERZEUGUNG

Title (fr)
SYSTEME D'IMAGERIE RADIOGRAPHIQUE QUANTITATIVE

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EP 0914060 A1 19990512 (EN)

Application
EP 97925548 A 19970513

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Abstract (en)
[origin: WO9742877A1] A system for spectroscopic imaging of bodily tissue in which an optical storage element (1500) and a charged coupled device (CCD) are used to accurately image selected tissue. An x-ray source generates x-rays which pass through a region of a subject's body, forming an x-ray image which reaches the optical storage element (1500). The optical storage element (1500) reradiates a spatial intensity pattern corresponding to the image, the pattern being detected by a CCD sensor. The image is digitized by the sensor and processed by a controller before being stored as an electronic image. Each image is directed onto an associated respective CCD or amorphous silicon detector to generate individual electronic representations of the separate images. The optical storage element (1500) is contained in a sleeve (1504) which is inserted into the patient's mouth adjacent to the teeth to be imaged. A slip (1502) that absorbs the transmitted x-rays is also inserted into the sleeve (1504).

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