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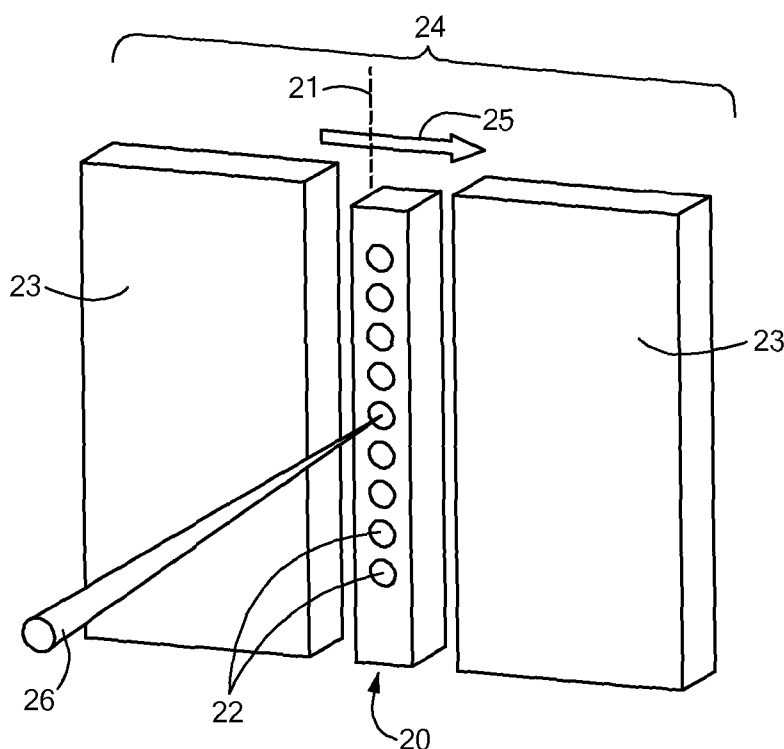
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(54) Title: X-RAY IMAGING OF BAGGAGE AND PERSONNEL USING ARRAYS OF DISCRETE SOURCES AND MULTIPLE COLLIMATED BEAMS



(57) Abstract: A system and methods are provided for imaging an object, based on activating an array of discrete X-ray sources in a prescribed temporal pattern so as to illuminate the object with a beam varying in spatial orientation, and detecting X-rays of the beam after interaction with the object and generating a detector signal. An image of the object may then be constructed on the basis of the time variation of the detector signal. The discrete X-ray sources may be moved during the course of inspection, moreover, the prescribed temporal pattern may constitute a Hadamard code. The discrete sources may be carbon nanotube x-ray sources.