

LINEAR SCANNING CT IMAGING SYSTEM AND METHOD

ABSTRACT

A linear scanning CT imaging system, including: a conveying device (3) used to move a scanned object (30) in a predetermined conveying direction (D3) in a scanning channel (4); ray sources (1) used to alternately emit ray beams to form a scanning region; detectors (2), including a first detector (21) used to detect first projection data formed by the ray beams transmitted through the scanned object (30) during a process of the scanned object (30) passing through the scanning region, and a second detector (22) used to detect second projection data formed by ray beams transmitted through the scanned object (30) during the process of the scanned object (30) passing through the scanning region; and an imaging device (5) used to: generate a digital radiographic image of the scanned object (30) according to second projection data, and obtain a computed tomography image of the scanned object (30) according to first projection data and second projection data. A linear scanning CT imaging method is further provided.

FIG. 1