ABSTRACT

A CT machine is provided, including: a first frame; a plurality of supporting devices on the first frame; a rotatable portion capable of rotating around a rotation axis when driven by a driving wheel, and the rotatable portion being jointly supported by the plurality of supporting devices during rotation; a scanning device comprising a ray source and a detector; and an axial limiting mechanism for limiting movements of the rotatable portion along a first direction and a second direction. The plurality of supporting devices are further configured to limit a movement of the rotatable portion along a first radial direction, the CT machine further comprises a radial limiting mechanism, the radial limiting mechanism limits a movement of the rotatable portion along a second radial direction, the first radial direction and the second radial direction are both parallel to the radial direction of the rotatable portion and opposite to each other.

[Fig No. 2]