

Docket #: S06-023

Tomographic Reconstruction for X-Ray Cone-Beam Scan Data

Disclosed is x-ray cone beam scan data reconstruction of an imaged object with a reconstruction algorithm using shift invariant filtering and backprojection with the maximum tomographic capability of a circular scan larger than π plus cone angle, when CB data is not truncated and data extrapolation is not allowed. The reconstruction scheme includes a conventional FDK reconstruction and a parallel reconstruction using differential back projection and 1D Hilbert transform to suppress the CB artifacts.

Patents

- Published Application: [20070297661](#)
- Issued: [7,409,033 \(USA\)](#)

Innovators

- Lei Zhu
- Rebecca Fahrig

Licensing Contact

Jon Gortat

Licensing & Strategic Alliances Director for Physical Science

[Email](#)