Title (en)

COMPUTED TOMOGRAPHY SCANNING TARGET DETECTION

Title (de)

ZIELERFASSUNG BEI DER COMPUTERTOMOGRAPHIE

Title (fr)

DETECTION DE CIBLE PAR TOMOGRAPHIE ASSISTEE PAR ORDINATEUR

Publication

EP 1021128 A1 20000726 (EN)

Application

EP 98948103 A 19980904

Priority

- US 9818561 W 19980904
- US 94849197 A 19971010
- US 94849297 A 19971010
- US 94869797 A 19971010

Abstract (en)

[origin: WO9918854A1] Using helical cone beam (114) scanning, a nutating slice CT system generates three-dimensional projection data and reconstructs a series of planar image slices (132) having equal tilt angles (theta) and changing rotation angles with respect to the longitudinal axis of the scanned object, causing the normals to nutate and process about the longitudinal axis (Z). Conventional two-dimensional reconstruction is used, since the projection data (130) of the tilted slices (132) is one-dimensional fan beam data. Two-dimensional images may be created at stationary projection angles. Nutation or tilt of voxels may be compensated, and parallel processing may be used.

IPC 1-7

A61B 6/03

IPC 8 full level

A61B 6/03 (2006.01); **G06T 1/00** (2006.01)

CPC (source: EP)

A61B 6/027 (2013.01); **A61B 6/032** (2013.01); **A61B 6/5258** (2013.01); **G06T 11/005** (2013.01)

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

WO 9918854 A1 19990422; AU 9474398 A 19990503; CN 1336811 A 20020220; EP 1021128 A1 20000726; JP 2001519192 A 20011023; JP 3585835 B2 20041104

DOCDB simple family (application)

US 9818561 W 19980904; AU 9474398 A 19980904; CN 98810035 A 19980904; EP 98948103 A 19980904; JP 2000515496 A 19980904