InvenioIP - Technology Details

Institution: University of Maryland, Baltimore

Docket: DS-2006-049

Title: Arc-Sequencing Algorithm for Intensity Modulated Arc Therapy

Summary: Intensity modulated arc therapy (IMAT), a rotational approach to intensity modulated radiation therapy (IMRT), has not materialized because there are no treatment protocol tools for IMAT. The invention relates to methods of determining deliverable IMAT treatment protocols. The invention further relates to a radiation device comprising a controller capable of determining deliverable IMAT treatment protocols.

Applications:
- Radiation therapy

Advantages:
- The invention enables the previously unrealized use of IMAT for radiation therapy.

State of Development: IMAT treatment protocols comparable to treatment protocols for tomotherapy have been demonstrated.

R and D Required: Larger clinical studies required to validate treatment protocols.

Licensing Potential: UMB seeks to develop and commercialize by an exclusive or non-exclusive license agreement and/or sponsored research with a company active in the area.

Patent Status: Patent pending.

Related Publications: N/A

Technology Inventors: David Shephard
Daliang Cao
Matthew Earl

Contact Info: Technology Licensing Officer
cvip@umaryland.edu
620 West Lexington St.
Baltimore, MD, 21201
410-706-1187