

Nicolas Vargas

1) Family number: 32508911 (US2005283070A)

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Title: SYSTEMS AND METHODS FOR QUALIFYING SYMMETRY TO EVALUATE MEDICAL IMAGES

Abstract: A method and related software are provided for analyzing images such as computerized tomography images obtained from a standard perfusion CT software package. This method converts image values to relative differences, which represents meaningful side-to-side asymmetry. This conversion may be performed by comparing a small region of the scan to the corresponding region in the contralateral hemisphere, quantifying the degree of relative difference using statistical techniques, and representing this quantity of relative difference in a two dimensional or three dimensional relative difference map.

Classifications:

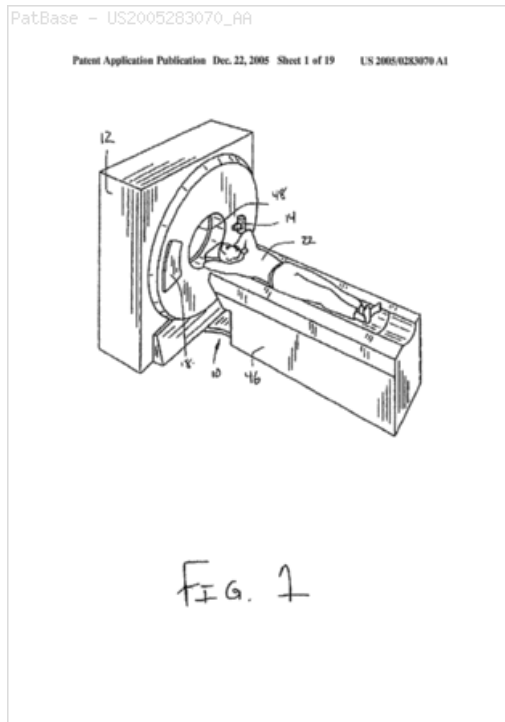
International (IPC 8-9): A61B5/05 A61B6/00 A61B6/03 A61N1/39 G06K9/00 (Advanced/Invention); A61B5/05 A61B6/00 A61B6/03 A61N1/39 G06K9/00 (Core/Invention)

International (IPC 1-7): A61B5/05

CPC: G06T2207/10081 A61B6/507 A61B6/037 A61B6/504 A61B6/032 A61B6/481 A61B6/501 G06T7/0012 G06T7/68 G06T2207/10072 G06T2207/30016 G06T2207/30104

European: A61B6/03B A61B6/03D A61B6/48B A61B6/50B A61B6/50H G06T7/00B2 G06T7/60S K61B6/48B S06T207/10072 S06T207/10081 S06T207/30016 S06T207/30104

US: 600/425 600/425P 607/1 607/1P



Family:

Publication number	Publication date	Application number	Application date
US2005283070 AA	20051222	US20040872666	20040621
US2008021502 AA	20080124	US20070706128	20070212
WO06002312 A2	20060105	WO2005US22256	20050621
WO06002312 A3	20070719	WO2005US22256	20050621
WO07095284 A2	20070823	WO2007US03897	20070212
WO07095284 A3	20081218	WO2007US03897	20070212

Priority:

US20040872666 20040621 US20060772091P 20060210 US20060838521P 20060816
 US20070706128 20070212

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Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

2) Family number: 52815201 (US2013015364A)

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Title: SYSTEMS AND METHODS FOR ACHROMATICALLY BENDING A BEAM OF CHARGED PARTICLES BY ABOUT NINETY DEGREE DURING RADIATION TREATMENT

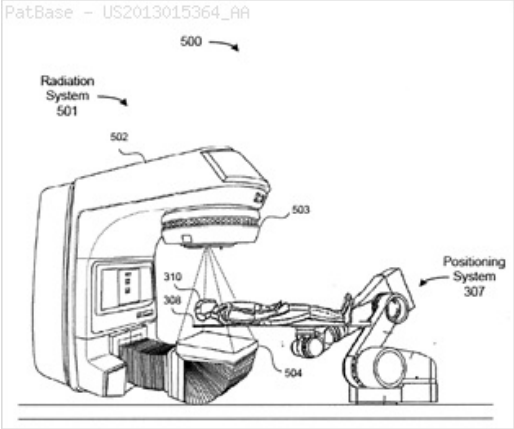
Abstract: Embodiments of the invention provide systems and methods for achromatically bending beam of charged particles by about 90 degrees during radiation treatment. A system may include first, second, third, and fourth bending magnets serially arranged along the particle beam path. The first and fourth bending magnets are configured to generate a positive field gradient that defocuses the particle beam in the bend plane. The second and third bending magnets are configured to generate a negative field gradient that focuses the particle beam in the bend plane. The first, second, third, and fourth bending magnets collectively bend the particle beam by about 90 degrees, e.g., by about 22.5 degrees each.

Classifications:

International (IPC 8-9): A61N5/10 G21D1/00 H01J1/50 H01J49/00 H01L29/70 H05H7/00 H05H7/04 (Advanced/Invention)

CPC: H05H7/001 A61N5/1081 H05H7/04 H05H2007/002 H05H2007/048 A61N2005/1087

US: 250/396ML 250/396R 250/492.3 313/361.1 315/501 315/507 376/105



Family:

Publication number	Publication date	Application number	Application date
US2013015364 AA	20130117	US20110183943	20110715
US8405044 BB	20130326	US20110183943	20110715
WO13012702 A1	20130124	WO2012US46608	20120713

Priority:

US20110183943 20110715

Probable Assignee: ACCURAY INC

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW