



US007868564B2

(12) **United States Patent**
Iwata et al.

(10) **Patent No.:** **US 7,868,564 B2**
(45) **Date of Patent:** **Jan. 11, 2011**

(54) **H-MODE DRIFT-TUBE LINAC AND DESIGN METHOD THEREFOR**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 464 days.

(21) Appl. No.: **12/065,145**

(22) PCT Filed: **Oct. 31, 2005**

(86) PCT No.: **PCT/JP2005/019990**

§ 371 (c)(1),
(2), (4) Date: **Feb. 28, 2008**

(87) PCT Pub. No.: **WO2007/034573**

PCT Pub. Date: **Mar. 29, 2007**

(65) **Prior Publication Data**
US 2009/0261760 A1 Oct. 22, 2009

(30) **Foreign Application Priority Data**
Sep. 26, 2005 (JP) 2005-277426

(51) **Int. Cl.**
H05H 9/00 (2006.01)

(52) **U.S. Cl.** **315/505**; 315/500; 250/214 VT;
250/396 R

(58) **Field of Classification Search** 315/3.6,
315/5, 5.34, 5.39, 5.43, 500-505; 250/214 R,
250/214 VT, 207, 396 R; 313/359.1, 361.1
See application file for complete search history.

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(57) **ABSTRACT**

A linearity of a voltage change to a tuner insertion amount is verified for at least one of a plurality of tuners. Based on the voltage change linearity, individual voltage change data corresponding to respective insertion amounts are calculated for each of the plurality of tuners through a proportional calculation. A combination of auto-tuners and a combination of respective insertion amounts of the auto-tuners are determined using the individual voltage change data, and an adequacy of the determined combinations is verified through a direct three-dimensional electromagnetic field calculation. The combinations are determined on a condition that, when the individual voltage change data of nominated tuners are added together, respective voltage changes attributed to the nominated tuners are cancelled out to allow an entire voltage distribution to have substantially no change.

11 Claims, 9 Drawing Sheets

