

07-15-1998



OMB No. 0651-0011 (exp. 4/94)

MRD 6-30-98
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Koji MATSUDA Hiroshi AKIYAMA Kazuo HIRAMOTO</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>Hitachi LTD</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>6, Kanda Surugadai 4-Chome</u> <u>Chiyoda-Ku, Tokyo Japan</u></p> <p>City: _____ State: _____ ZIP: _____</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: <u>June 10, 1998</u></p>	



4. Application number(s) or patent number(s): 09/106905

If this document is being filed together with a new application, the execution date of the application is: June 10, 1998

A. Patent Application No.(s)	B. Patent No.(s)
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>ANTONELLI, TERRY, STOUT & KRAUS, LLP</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>1300 NORTH SEVENTEENTH STREET</u> <u>SUITE 1800</u></p> <p>City: <u>ARLINGTON</u> State: <u>VA</u> ZIP: <u>22209</u></p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41).....\$ <u>40.00</u></p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>01-2135</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
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9. Signature and signature date: 07/09/1998 09/10/98

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document. 40.00 UP

Melvin Kraus June 30, 1998
Name of Person Signing 22,466 Signature Date

Total number of pages including cover sheet, attachments, and document: 2

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Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to Hitachi, Ltd. of 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 101-8010, Japan its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

CHARGED PARTICLE BEAM IRRADIATION SYSTEM AND IRRADIATION METHOD THEREOF

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, ~~Serial No. xxxxxxxxxxxxxxxxx filed xxxxxxxxxxxxxxxxx~~ executed by us even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi, Ltd.

, its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi, Ltd.

- | | (Full Name) | (Signature) |
|--|-------------|------------------------|
| 1) Date <u>June 10, 1998</u> Inventor <u>Koji Matsuda</u> | | <u>Koji Matsuda</u> |
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| 4) Date _____ Inventor _____ | | |
| Residence _____ Citizenship _____ | | |
| Post Office Address _____ | | |
| 5) Date _____ Inventor _____ | | |
| Residence _____ Citizenship _____ | | |
| Post Office Address _____ | | |

Witness(es)

- All) Mari Yamagata 2) _____ 4) _____
- 1) _____ 3) _____ 5) _____

PATENT