

10-29-1999



101184170

09/230528

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
**Mitsugu SATO
Yuko IWABUCHI**
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: **HITACHI, LTD.**
Internal Address:
Street Address: **6, Kanda Surugadai 4-chome
Chiyoda-ku, Tokyo 101, JAPAN**

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Additional name(s) & address(es) attached? Yes No
300 Rec'd PCT/P16 27 JAN 1999

Execution Date: 18 January 1999

4. Application number(s) or patent number(s);
If this document is being filed together with a new application, the execution date of the application is: 18 Jan. 1999
A. Patent Application No.(s) **09/230528** B. Patent No.(s)
Additional numbers attached: Yes No

5. Name and address of party to whom
correspondence concerning document should be
mailed:
**John C. Altmiller
Kenyon & Kenyon
1025 Connecticut Avenue, N.W.
Washington, DC 20036**

6. Total number of applications
and patents involved: **1**
7. Total fee (37 CFR 3.41).....\$40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
11-0600
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
John C. Altmiller _____ **27 January 1999**
Name of Person Signing Signature Date
Total number of pages including cover sheet, attachments, and document: 5

A S S I G N M E N T

WHEREAS, we,

- 1) Mitsugu Sato
- 2) Yuko Iwabuchi
- 3) _____
- 4) _____
- 5) _____

citizens of _____ Japan _____, residing at

- 1) 1927-32, Takaba, Hitachinaka-shi, Ibaraki 312-0062 JAPAN
- 2) 14-3, Yanagicho 1-chome, Mito-shi, Ibaraki 310-0817 JAPAN
- 3) _____
- 4) _____
- 5) _____

respectively, (hereinafter referred to as "the Assignors");
have invented new and useful improvements in
CHARGED PARTICLE BEAM IRRADIATOR

_____ ,
for which we are about to make application for Letters
Patent of the United States, said application having been
executed on even date hereof; and

WHEREAS, HITACHI, LTD., organized and existing under
and by virtue of the laws of Japan, having an office at 6,
Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 101, Japan,
(hereinafter referred to as "the Assignee"), is desirous of
acquiring the entire right, title and interest in and to
the application and invention therein described and claimed
and any Letters Patent that may be issued upon the
application or for the improvements therein contained.

NOW, THEREFORE, for and in consideration of the equivalent of U.S. \$1.00 (One U.S. Dollar) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the Assignors, have assigned and transferred, and do hereby assign and transfer, unto the Assignee, its successors and assigns, the entire right, title and interest in and to the application and the invention therein contained, including the right to apply for any Letters Patent in the United States of America on the invention, and any Letters Patent that may issue thereon or therefor in the United States, and all reissues, extensions, renewals, divisions and continuations thereof, to the full end of the term or terms for which the Letters Patent may be issued, the same to be held and enjoyed by the Assignee, its successors and assigns, the same as it would have been held and enjoyed by us if this Assignment had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue all such Letters Patent to the Assignee, its successors and assigns, in accordance with this instrument of Assignment.

We hereby represent and warrant that there are no rights and interests outstanding inconsistent with the rights and interests granted herein and that we will not execute any instrument or grant or transfer any rights or interests inconsistent therewith, and we, the Assignors, bind ourselves, our heirs, executors, administrators and legal representatives, as the case may be, to execute and deliver to the Assignee, its successors and assigns, any further documents or instruments and do any and all further acts that may be deemed necessary by the Assignee, its successors and assigns, to vest in the Assignee, its successors and assigns, the title herein conveyed, or intended so to be, and to enable such title to be recorded in the United States.

And we further covenant and agree, in consideration of the premises, that we, our executors and administrators, will at any time upon request communicate to the Assignee, its successors and assigns, any facts relating to the invention and improvements and the history thereof, known to us or our executors and administrators, and that we will testify as to the same in any interference or other litigation when requested so to do by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 18 day of 1, 1999.

Mitsugu Sato

Name: Mitsugu Sato

WITNESSED BY:

Hajime Ikeda
Name

3337-54, Nakane, Hitachinaka-shi,

Ibaraki 312-0011 JAPAN

Address

WITNESSED BY:

Mari Yamagata
Name

32-12, Kujicho 6-chome, Hitachi-shi,

Ibaraki 319-1222 JAPAN

Address

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 18 day of / , 1999.

Yuko Iwabuchi

Name: Yuko Iwabuchi

WITNESSED BY:

Keiji Akada

Name

3337-54, Nakane, Hitachinaka-shi,

Ibaraki 312-0011 JAPAN

Address

WITNESSED BY:

Mari Yamagata

Name

32-12, Kujicho 6-chome, Hitachi-shi,

Ibaraki 319-1222 JAPAN

Address