PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Alfred Smith	10/12/2007
Wayne Newhauser	10/15/2007
Kazuo Hiramoto	03/05/2007
Hiroshi Akiyama	06/14/2007
Masaki Yanagisawa	06/18/2007

RECEIVING PARTY DATA

Name:	Hitachi, Ltd.
Street Address:	6-6, Marunouchi 1-chome
Internal Address:	Chiyoda-ku
City:	Tokyo
State/Country:	JAPAN

Name:	Board of Regents, University of Texas System
Street Address:	201 West 7th Street
City:	Austin
State/Country:	TEXAS
Postal Code:	78701

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	11758755
Application Number:	11714219

CORRESPONDENCE DATA

Fax Number: (212)277-6501

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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PATENT REEL: 020862 FRAME: 0562

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ATTORNEY DOCKET NUMBER: K2020.0020A/K2020.0020B

NAME OF SUBMITTER: lan R. Blum

Total Attachments: 4

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> PATENT REEL: 020862 FRAME: 0563

PATENT APPLICATION ASSIGNMENT - SOLE AND JOINT INVENTORS

FILE NOS K2020 0020, A & B

WHEREAS, We, Alfred SMITH and Wayne NEWHAUSER, as assignors, have invented certain improvements in AN ION BEAM DELIVERY EQUIPMENT AND AN ION BEAM DELIVERY METHOD for which an application for United States Letters Patent has been executed by me of even date herewith; and

WHEREAS, Board of Regents, University of I exas System, 201 West 7th Street, Austin, I exas, 78701, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor

NOW, THEREFORE, in consideration of One Dollar (\$1 00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, as assignors, hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for ourselves and our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee

Date: 10/	12/01	alfred & Smith
	•	/ Alfred SMITH
SIATE OF)	
COUNTY OF) ss :	
Aured SMILTH,	to me personally known as	, 2003, before me personally came the above-named at the individual who executed the foregoing instrument, who exuted by him of his own free will for the purposes therein of forth EIKA G. THOMAS Notary Public, State of Texas
		My Commission Expires Otary Pulojest De2011
Date:		
		Wayne NEWHAUSER
STATE OF)) ss.:	
COUNTY OF)	
	_ day of	, 20, before me personally came the above-named the individual who executed the foregoing instrument, who
Alfred SMITH, 1 acknowledged to	me that the same was exe	cuted by him of his own free will for the purposes therein set forth.

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05-070

PATENT APPLICATION ASSIGNMENT SOLE AND JOINT INVENTORS

FILE NOS. K2020 0020, A & B

WHEREAS, We, Alfred SMITH and Wayne NEWHAUSER, as assignors, have invented certain improvements in AN ION BEAM DELIVERY EQUIPMENT AND AN ION BEAM DELIVERY METHOD for which an application for United States Letters Patent has been executed by me of even date herewith; and

WHEREAS, Board of Regents, University of Texas System, 201 West 7th Street, Austin, Texas, 78701, as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor

NOW, THEREFORE, in consideration of One Dollar (\$1 00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, as assignors, hereby sell, assign and set over to said assignee the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for ourselves and our legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignee, its successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignee

Date:	
· · · · · · · · · · · · · · · · · · ·	Alfred SMITH
SIATE OF)	
COUNIY OF) ss:	
This day of	, 20, before me personally came the above-named lividual who executed the foregoing instrument, who
Alfred SMITH, to me personally known as the ind	lividual who executed the foregoing instrument, who
acknowledged to me that the same was executed b	y him of his own free will for the purposes therein set forth
	Notary Public Seal
Date: 15 October 2007	Mayne Murlamer
A	Wayne NEWHAUSER
STATE OF Lexas)	
STATE OF Lexas) COUNTY OF Harris)	•
This 15th day of October	, 20_07 before me personally came the above-named
Alfred SMITH, to me personally known as the indi	ividual who executed the foregoing instrument, who
acknowledged to me that the same was executed by	him of his own free will for the purposes therein set forth
	1000
CATHY PHILLIPS	Notary Public - Seal
Notary Public, State of Texas My Commission Expires	Notary Public - Seal
July 22, 2010	

DOCSNY-265698v01

PATENT REEL: 020862 FRAME: 0565

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Kazuo HIRAMOTO, Hiroshi AKIYAMA, Masaki YANAGISAWA and Hisataka FUJIMAKI, citizens of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged, we, the said Kazuo HIRAMOTO, Hiroshi AKIYAMA, Masaki YANAGISAWA and Hisataka FUJIMAKI do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all our right, title and interest, in and for the United States of America, in and to application Serial No. 11/039,960, filed January 24, 2005, and entitled:

AN ION BEAM DELIVERY EQUIPMENT AND AN ION BEAM DELIVERY METHOD

invented by us and described in the application for United States Letters Patent therefor noted above, 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 us if this assignment and sale had not been made;

And we 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 assignees;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

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Signed on the date(s) indicated aside signatures; (iii) (iii)

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INVENTOR:	Kazus Hivamoto Kazus Hiramoto	Date Signed: 3/5/2007
WITNESS:	Akna Kobana	Date Signed: 3/5/2007
WITNESS:	Takashi Yamaguchi	Date Signed: 3/5/2007
INVENTOR:	Aliverti Aryana Hiroshi Akiyana	Date Signed: 6 / 14 /2007
WITNESS:	Akira Kobana	Date Signed: 6/14/2007
WITNESS:	Winadi Hita	Date Signed: 6/14/2007
INVENTOR:	Maraki Janajisawa Masaki YANAGISAWA	Date Signed: 4/8/2001
WITNESS:	Akira Kovana	Date Signed: 6/18:/2007
WITNESS:	Hiroshi Keta	Date Signed: 8/18 / 2007

Page 1 of 2

WITNESS: This arki With Date Signed: 8/5/2007

WITNESS: This Robana Date Signed: 8/5/2007

WITNESS: This arki With Date Signed: 8/5/2007

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PATENT REEL: 020862 FRAME: 0567