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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies): Steven Richards (06/28/2002), Christopher Berry (06/28/2002), and William Leavitt (06/28/2002) Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: IBIS TECHNOLOGY CORPORATION Internal Address: Street Address: 32A Cherry Hill Drive City: Danvers State: MA Zip: 01923 Additional name(s) & address(es) attached: Yes No

3. Nature of Conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: see Box 1, conveying parties

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the new application is: A. Patent Application No.(s): 10/157,947 B. Patent No.(s): Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Thomas J. Engellenner NUTTER MCCLENNEN & FISH LLP Internal Address: Atty. Dkt.: 101361-0050 Street Address: World Trade Center West 155 Seaport Boulevard City: Boston State: MA Zip: 02210-2604

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 [] Authorized to be charged to credit card (Form 2038 enclosed) 8. Deposit account number: 141449 (Attach duplicate copy of this page if paying by deposit account)

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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. Reza Mollaaghababa Name of Person Signing Signature Date August 27, 2002 Total number of pages including cover sheet, attachments, and documents: 7

09/05/2002 SKINASS: 00000044 10157947 02 FC:581 1131764.1 40.00 CP

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Steven Richards; Christopher Berry; and William Leavitt (hereinafter referred to as Assignors), residing at 6 Tall Tree Way, Georgetown, Massachusetts 01833-1840; 81 Westside Drive, Exeter, New Hampshire 03833; and 645 Kenoza Street, Haverhill, Massachusetts 01830, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in BEAM STOP FOR USE IN AN ION IMPLANTATION SYSTEM, set forth in a Patent application for Letters Patent of the United States, filed May 29, 2002 and Assigned US patent application Serial No. 10/157,947; and

WHEREAS, IBIS TECHNOLOGY CORPORATION, a Corporation organized under and pursuant to the laws of United States of America having its principal place of business at 32A Cherry Hill Drive, Danvers, Massachusetts 01923 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or

terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

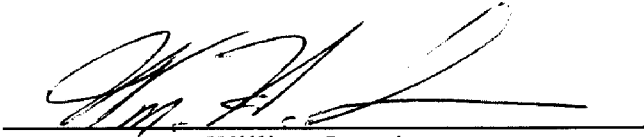
AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

NUTTER MCCLENNEN & FISH LLP

William C. Geary III	31,359	Ronald E. Cahill	38,403	Herbert A. Newborn	42,031
Thomas J. Engellenner	28,711	Lisa J. Michaud	44,238	Tram Anh T. Nguyen	47,257
David J. Powsner	31,868	Reza Mollaaghababa	43,810	Jasbir Sagoo, Ph.D.	51,177

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

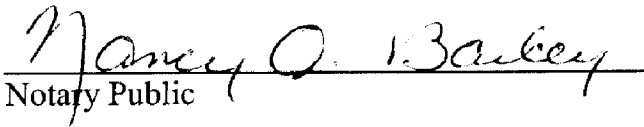


William Leavitt

Date: June 28, 2002

United States of America)
State of Massachusetts) ss.:
County of Essex)

On this 28 day of June, 2002, before me personally came William Leavitt, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

My Commission Expires
February 19, 2004

1112425.1

Christopher Berry
Christopher Berry

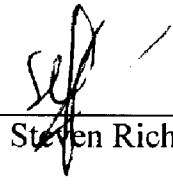
Date: June 28, 2002

United States of America)
State of Massachusetts) ss.:
County of Essex)

On this 28 day of June, 2002, before me personally came Christopher Berry, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Nancy A. Briles
Notary Public

My Commission Expires
February 19, 2004



Steven Richards

Date: June 28, 2002

United States of America)
State of Massachusetts) ss.:
County of Essex)

On this 28th day of June, 2002, before me personally came Steven Richards, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Nancy C. Bailey

Notary Public

**My Commission Expires
February 19, 2004**