PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Steven R. Walther	09/09/2010
Gerald M. Friedman	09/09/2010
Michael L. Bufano	09/09/2010

RECEIVING PARTY DATA

Name:	Advanced Electron Beams, Inc.	
Street Address:	301 Ballardvale Street	
City:	Wilmington	
State/Country:	MASSACHUSETTS	
Postal Code:	01887	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12837914

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 2251.2025-001

NAME OF SUBMITTER: Lisa Bevere

Total Attachments: 3

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PATENT REEL: 024977 FRAME: 0239

Joint

ASSIGNMENT

WHEREAS, we, Steven R. Walther, Gerald M. Friedman and Michael L. Bufano,

have in Patent,		a certain improvement in Emitter Exit Window described in an application for
		the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
		is about to be filed in the United States Patent Office as a Provisional Application;
		the specification of which is United States Application No. 12/837,914, filed July 16, 2010;
		the specification of which is a Patent Cooperation Treaty Application, International Application No. [], filed [], which designates the United States of America;
		which was patented under United States Patent No. [].
	WHE	REAS, Advanced Electron Beams, Inc. (hereinafter "ASSIGNEE"), a corporation

WHEREAS, Advanced Electron Beams, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 301 Ballardvale Street, Wilmington, Massachusetts 01887 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signat	ure: Stever of	Walthe
J		even R. Walther
State/Commonw	ealth	
of Massac	Lusetts	
County of	seef	
On this		mber 20/0, before me, the undersigned notary
personall	public, personally known to me, or	y appeared Steven R. Walther,
proved to	me through satisfactory	evidence of identification, which was
•		on the foregoing instrument in my presence, and going instrument as his/her free act and deed.
(SEAL)	MINIMUM.	Notary Public Wary Slave
	HILLIAM C. BLANNING	MARY C. BOAINE (print name)
•	60031-20,	My Commission expires /0 /31 / 14
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Inventor's Signature: Vendo M. Hedwas
State/Commonwealth of Mass achuse Us County of Essec
On this day of day of 20 20
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he she digred the foregoing instrument as his/her free act and deed. (SEAL) Notary Public Many C. Boain (print name) My Commission expires 10/31/14 Michael L. Bufano
State/Commonwealth of Manachusetts County of
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. (SEAL) Notary Public May Slave MANY C. BUAINE (print name)
MARY C. BUAINE (print name) My Commission expires 10/31/14
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