

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	LICENSE
CONVEYING PARTY DATA	
Name	Execution Date
Advanced Electron Beams, Inc.	04/30/2012
RECEIVING PARTY DATA	
Name:	Serac Group
Street Address:	12 Route de Mamers
City:	La Ferte - Bernard Cedex
State/Country:	FRANCE
Postal Code:	72402
PROPERTY NUMBERS Total: 20	
Property Type	Number
Patent Number:	5962995
Patent Number:	6407492
Patent Number:	6545398
Patent Number:	6882095
Patent Number:	6630774
Patent Number:	6800989
Patent Number:	7180231
Patent Number:	6674229
Patent Number:	7265367
Patent Number:	7329885
Patent Number:	7919763
Application Number:	13079602
Patent Number:	6833551
Patent Number:	6919570
Application Number:	12469123

CH \$800.00 5962995

Application Number:	12837914
Application Number:	61407090
Application Number:	12830910
Application Number:	11706075
Application Number:	12784983

CORRESPONDENCE DATA

Fax Number: (617)235-9492
 Phone: (617) 951-7000
 Email: mdipalma@ropesgray.com
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.
 Correspondent Name: Ropes & Gray LLP
 Address Line 1: Prudential Tower 800 Boylston Street
 Address Line 4: Boston, MASSACHUSETTS 02199-3600

ATTORNEY DOCKET NUMBER:	108706-0001
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NAME OF SUBMITTER:	Mary Jane DiPalma
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Total Attachments: 12
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NONEXCLUSIVE LICENSE AGREEMENT

In this Agreement, Advanced Electron Beams, Inc., a Delaware corporation, having a principal place of business at [REDACTED] (hereafter "AEB"), and Serac Group, a French corporation having a principal place of business at [REDACTED] (hereafter "Serac"), agree as follows:

Article 1. Background

- 1.1 AEB owns certain patents and patent applications relating to electron beam devices.
- 1.2 Serac desires a nonexclusive license under the patents and patent applications in accordance with the terms of this Agreement and AEB is willing to grant such a license.
- 1.3 AEB owns certain equipment and materials used to operate and test electron beam equipment and other equipment and AEB desires to sell to Serac, and Serac desires to purchase, such equipment and materials, in accordance with the terms of this Agreement.

Article 2. Definitions

- 2.1 "Affiliate" means a person or entity which controls, is controlled by, or is under common control with Serac. For purposes of this definition, a person or entity is in "control" of an entity if it owns or controls more than fifty percent (50%) of the equity securities of the subject entity entitled to vote in the election of directors (or, in the case of an entity that is not a corporation, for the election of the corresponding managing authority), or otherwise has the power to control the management and policies of such other entity. An entity only retains the rights and is subject to the obligations of an Affiliate for so long as such entity continues to satisfy the definition in this Section 2.1.
- 2.2 "Assets" means the equipment set forth on Schedule 2.2 attached hereto and incorporated by reference herein and all manuals, drawings, documentation, working papers, instructions, studies, reports, and other printed or written materials relating to the specifications, use, maintenance or operation thereof.
- 2.3 "Effective Date" means the date of signature of the last of the Parties to sign this Agreement.
- 2.4 "Effective Filing Date" means the earliest priority filing date claimed in writing by the applicant during application for a respective patent, utility model, certificate of invention or other respective governmental grant for the protection of inventions.
- 2.5 "Encumbrances" means any and all liens, charges, security interests, mortgages, pledges, options, preemptive rights, levies, or other adverse claims or restrictions on title or transfer of any nature whatsoever.
- 2.6 "Licensed AEB Patents" means the patents and patent applications listed on Attachment A attached hereto and incorporated herein by reference and all other Patent Rights related

to Licensed Emitter Devices (as such term is defined herein) owned or controlled by AEB at any time during the term of this Agreement that have an Effective Filing Date prior to the Effective Date of this Agreement. A Patent Right is controlled by AEB if AEB has the right to grant a license of the scope granted in this Agreement under such Patent Right without permission of or accounting to a third party.

- 2.7 “Licensed Emitter Devices” means Licensed Flat-Emitter Devices and Licensed ITB-Emitter Devices (and any of them a “Licensed Emitter Device”).
- 2.8 “Licensed Flat-Emitter Devices” means electron beam devices based on a triode design having a filament, a control grid and a window to be thereby configured to emit an electron beam.
- 2.9 “Licensed ITB-Emitter Devices” means electron beam devices with an exit window within a nozzle protruding from the main body of the electron beam device for fitting into a bottle or container and to emit electrons from the nozzle.
- 2.10 “Licensed Field” means the design, manufacture, promotion and sale of Licensed Emitter Devices for use in sterilizing or treating the inner or outer surface of containers and any corresponding closure devices.
- 2.11 “Licensed Know-How” means any technical specifications, plans, drawings, technical information, process engineering information, sketches, designs, concepts, process sheets, supplier and sourcing information, manufacturing data and procedures, processes, techniques, operations, trade secrets, components, tolerances, formulations, computer software, and the like, and all intellectual property rights pertaining thereto, that are or have been used by AEB in connection with the design, development, manufacture and use of the Licensed Emitter Devices in the Licensed Field.
- 2.12 “Party” means AEB or Serac, and “Parties” means AEB and Serac.
- 2.13 “Patent Rights” means any and all of the following: (a) all patents, utility models, certificates of invention and other governmental grants for the protection of inventions anywhere in the world and all reissues, renewals, re-examinations and extensions thereof; (b) all applications for any of the foregoing, including, without limitation, any international, provisional, divisional, continuation, continuation-in-part, and continuing prosecution applications; and (c) all rights in, arising out of, or associated with any of the foregoing anywhere in the world.

Article 3. License Grant, Sale of Assets and Disclosure of Know-How

- 3.1 Subject to receipt by AEB of the license fee payable pursuant to Section 4.1 [REDACTED] [REDACTED] AEB grants to Serac and its Affiliates a royalty-free, fully paid up, irrevocable nonexclusive, world-wide license under the Licensed AEB Patents and the Licensed Know-How, to make, have made, use, repair, sell, offer for sale, export and import Licensed Emitter Devices for use in the Licensed Field. For the avoidance of any doubt, no other use of Licensed Emitter Devices is permitted with this license. This license is transferable as provided in Section 7.2.

- 3.2 At the time of signing of this Agreement, (a) AEB shall sell, transfer, assign, convey and deliver to Serac, and Serac shall purchase, accept and receive, all of AEB's right, title and interest in and to the Assets, free and clear of all Encumbrances and (b) AEB shall execute and deliver to Serac a bill of sale in a form sufficient to convey to Serac good, valid and marketable title to the Assets.
- 3.3 At the time of signing of this Agreement, AEB shall provide physical copies of all tangible Licensed Know-How to Serac, including without limitation all technical specifications, plans, drawings, technical information, process engineering information, sketches, designs, concepts, process sheets, supplier and sourcing information, manufacturing data and procedures, components, tolerances, formulations, and all computer software source code and object code.

Article 4. Consideration

- 4.1 At the time of signing of this Agreement, Serac will pay a one-time, nonrefundable license fee of [REDACTED] in consideration for the Assets, the license provided for in Section 3.1 and any services provided by AEB pursuant to the terms of this Agreement. [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED] The allocation of the license fee among the Assets, the license provided for in Section 3.1 and any services provided by AEB pursuant to the terms of this Agreement shall be determined by Serac in its sole discretion and Serac shall provide such allocation to AEB and the parties agree to use such allocation in all tax returns, filings or other related reports by any of them to any governmental agencies.

Article 5. Term and Termination

- 5.1 This Agreement will be effective from the Effective Date until expiration of the last to expire of the Licensed AEB Patents, unless earlier terminated pursuant to the terms hereof.
- 5.2 The license granted in Section 3.1 is irrevocable. In the event of breach of this Agreement by Serac, AEB will have all remedies except termination of this Agreement with respect to such license.
- 5.3 All license rights provided for in Section 3.1 and all other rights granted to Serac herein shall run with the Licensed AEB Patents and shall be binding on any successors-in-interest (whether by way of merger, consolidation, sale of stock, sale, lease, transfer, exclusive license or other disposition, in a single transaction or series of related transactions, by AEB or any of its subsidiaries of all or substantially all the assets of AEB, or otherwise) or assigns thereof. [REDACTED]
[REDACTED]
[REDACTED]

- [REDACTED]
- 5.4 The Parties agree that the rights granted herein to Serac are licenses of intellectual property and in the event AEB becomes a debtor in bankruptcy, Serac, under Section 365(n) of the U.S. Bankruptcy Laws and comparable sections under other laws, may elect to retain the license rights granted herein despite any rejection of this Agreement under applicable laws.

Article 6. Representations, Warranties and Indemnities

- 6.1 AEB hereby represents and warrants that: (a) it owns the Licensed AEB Patents, the Assets and the Licensed Know-How; (b) it has the full right, power and corporate authority to enter into this Agreement, and to make the promises set forth in this Agreement, and to grant the rights herein and to sell the Assets to Serac; and (c) this Agreement is enforceable against AEB and, except as disclosed in Attachment B, there are no outstanding agreements, assignments or encumbrances in existence inconsistent with the provisions of this Agreement.
- 6.2 Serac hereby represents and warrants that: (a) it has the full right, power and corporate authority to enter into this Agreement, and to make the promises set forth in this Agreement, and to grant the rights herein; (b) this Agreement is enforceable against Serac and there are no outstanding agreements, assignments or encumbrances in existence inconsistent with the provisions of this Agreement.
- 6.3 Nothing in this Agreement shall be construed as:
- (a) a warranty or representation by AEB as to the validity, enforceability or scope of any patent; or
 - (b) a warranty or representation that anything made, used, sold, or otherwise disposed of pursuant to this Agreement is or will be free from infringement of patents or other intangible rights of third parties; or
 - (c) a requirement that AEB file any patent application, secure any patent, or maintain any patent in force; or
 - (d) an obligation on AEB to bring or prosecute actions or suits against third parties for infringement of any patent; or
 - (e) granting by implication, estoppel, or otherwise, any license or rights under patents, trade secrets, knowhow, copyrights, or other intangible rights of AEB other than the Licensed AEB Patents or Licensed Know-How as provided herein.
- 6.4 **Limitation of Warranties.** AEB is selling the Assets on an “as is where is” basis with no warranty except as expressly set herein. EXCEPT AS EXPRESSLY SET FORTH HEREIN, AEB DISCLAIMS ALL WARRANTIES INCLUDING ANY AND ALL WARRANTIES, GUARANTEES, OBLIGATIONS, LIABILITIES, RIGHTS AND

REMEDIES, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO THE USEFULNESS OR FREEDOM FROM DEFECTS OF ANY ASSETS, PRODUCTS OR METHODS CLAIMED IN ANY PATENT, INCLUDING, BUT NOT LIMITED TO, (A) ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, (B) ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE IN THE TRADE, AND (C) ANY OBLIGATION, RIGHT, LIABILITY, CLAIM OR REMEDY FOR (1) LOSS OF USE, REVENUE OR PROFIT, OR ANY OTHER DAMAGES, (2) INFRINGEMENT OF THIRD PARTY INTANGIBLE PROPERTY RIGHTS, AND (3) INCIDENTAL OR CONSEQUENTIAL DAMAGES.

- 6.5 SERAC HEREBY WAIVES, RELEASES AND RENOUNCES ANY AND ALL WARRANTIES, GUARANTEES, OBLIGATIONS, LIABILITIES, RIGHTS AND REMEDIES, EXPRESS OR IMPLIED, ARISING BY LAW OR OTHERWISE, WITH RESPECT TO THE USEFULNESS OR FREEDOM FROM DEFECTS OF ANY PRODUCTS OR METHODS CLAIMED IN ANY LICENSED PATENT, INCLUDING, BUT NOT LIMITED TO, (A) ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS, (B) ANY IMPLIED WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE IN THE TRADE, AND (C) ANY OBLIGATION, RIGHT, LIABILITY, CLAIM OR REMEDY FOR (1) LOSS OF USE, REVENUE OR PROFIT, OR ANY OTHER DAMAGES, (2) INFRINGEMENT OF THIRD PARTY INTANGIBLE PROPERTY RIGHTS, AND (3) INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Article 7. Other Provisions

- 7.1 All improvements, developments, inventions, concepts, techniques, processes, discoveries and ideas (including but not limited to any improvements to Licensed AEB Patents or Licensed Know-How) conceived or reduced to practice by Serac (including its employees and agents) either solely or jointly with others during the course of this Agreement will be owned by Serac or its designee.
- 7.2 Serac has the right to transfer all of its rights and obligations in connection with the sale of all or substantially all of the assets of its business to which this Agreement pertains, provided that the assignee agrees to be bound by all of the provisions of this Agreement. Serac agrees to provide notice to AEB or its successor within 30 days following the sale transaction date.
- 7.3 If AEB or its successor intends to allow an issued Licensed AEB Patent to lapse ("Lapsing Patent") by not paying a government fee (annuity, maintenance fee or the like) on or prior to the date such fee is due, not including any grace periods ("Maintenance Fee Due Date"), then Serac may request AEB or its successor to decide whether it will maintain the Lapsing Patent. If AEB or its successor elects to maintain the Lapsing Patent, then the appropriate fees will be paid, and Serac will be notified in writing. If AEB or its successor elects not to maintain the patent, then AEB or its successors hereby assigns the Lapsing Patent to Serac, and AEB or its successor will have a non-exclusive, worldwide, fully paid up irrevocable license to the Lapsing Patent. AEB or its successor

will execute the assignments and any other paperwork provided to AEB or its successor by Serac, at Serac's expense, to permit Serac to confirm ownership of the Lapsing Patent. Such Lapsing Patent shall be subject to all other pre-existing licenses, and Serac agrees that it will not assert any such patent against AEB or its successor.

With respect to those applications listed on Attachment A attached hereto and incorporated herein by reference (the "Patent Applications" and any of them a "Patent Application") that are presently pending, if AEB or its successor intends to abandon the prosecution and/or the maintenance of a Patent Application, by failing to respond to an office action or other document requiring a written response received from the U.S. Patent and Trademark Office or a foreign patent office, or by not paying a government fee (annuity, issue fee or the like) on or prior to the date such response or fee is due, not including any grace periods, then Serac may request AEB or its successor to decide whether it will elect to continue to prosecute or maintain the Patent Application. If AEB or its successor elects to prosecute or maintain the Patent Application, then the appropriate fees will be paid, and Serac will be notified in writing. If AEB or its successor elects not to prosecute or maintain the Patent Application, then AEB or its successors hereby assigns the Patent Application to Serac, and AEB or its successor will execute the assignments and any other paperwork provided to AEB or its successor by Serac to permit Serac to confirm ownership of the Patent Application, and provide other cooperation, at Serac's expense, as may be required to assist Serac in the prosecution of the Patent Application. Such Patent Application assigned to Serac shall be subject to all other pre-existing licenses, and Serac agrees that it will not assert any patent issued as a result of such Patent Application against AEB or its successor.

[REDACTED]

- 7.4 If Serac elects not to maintain a Lapsing Patent previously assigned to it in accordance with Section 7.3 by means of not paying the necessary government fee (annuity, maintenance fee or the like) on or prior to the applicable Maintenance Fee Due Date, then it will use reasonable effort to provide [REDACTED] with sufficient notice to permit [REDACTED] to decide whether to continue to maintain the Lapsing Patent. If such an election is made by [REDACTED], then Serac will use reasonable effort to provide [REDACTED] with the necessary assignments and other paperwork, at [REDACTED] expense, to permit [REDACTED] to obtain ownership of the Lapsing Patent. Notwithstanding the foregoing, in accordance with the understanding of the parties to this Agreement and for the sake of clarity, the parties hereto agree and acknowledge that Serac shall not have any liability for or arising out of a failure to provide any notice to [REDACTED] unless such failure shall be due to its gross negligence or willful misconduct.
- 7.5 AEB shall provide a reasonable number of employees or agents of Serac with training sufficiently thorough to instruct such Serac employees or agents in the proper use, maintenance and operation of the Assets and the Licensed Know-How. To the extent any

employee or agent of AEB is required to travel to a location other than AEB's location in order to provide such training, Serac shall arrange and bear the costs of such travel.

- 7.6 A waiver of any breach of any provision of this Agreement will not be construed as a continuing waiver of other breaches of the same or other provisions of this Agreement.
- 7.7 Nothing herein shall be deemed to create an agency, joint venture or partnership relation between the Parties hereto.
- 7.8 This Agreement constitutes the entire agreement and understanding of the Parties with regard to the subject matter hereof and merges and supersedes all prior discussions, negotiations, understandings and agreements between the Parties concerning the subject matter hereof. Neither Party will be bound by any definition, condition, warranty, right, duty or covenant other than as expressly stated in this Agreement or as subsequently set forth in a written document signed by both Parties. Each Party expressly waives any implied right or obligation regarding the subject matter hereof.
- 7.9 This Agreement will be interpreted and construed, and the legal relations created herein will be determined, in accordance with the laws of the State of Delaware (excluding conflicts of laws) and the United States.
- 7.10 This Agreement may be amended only by a written document signed by authorized representatives of both Parties.
- 7.11 Each Party hereto agrees to execute, acknowledge and deliver all such further instruments, and to do all such further acts, as may be necessary or appropriate to carry out the intent and purposes of this Agreement.
- 7.12 The headings contained in this Agreement are for reference purposes only and shall not affect in any way the meaning or interpretation of this Agreement.
- 7.13 Should any part or provision of this Agreement be held unenforceable or in conflict with the law of any jurisdiction, the validity of the remaining parts or provisions will not be affected by such holding. In the event a part or provision of this Agreement held unenforceable or in conflict with law affects consideration to either Party, the Parties agree to negotiate in good faith amendment of such part or provision in a manner consistent with the intention of the Parties as expressed in this Agreement.
- 7.14 Neither Party shall be responsible or liable to the other Party for nonperformance or delay in performance of any terms or conditions of this Agreement due to acts or occurrences beyond the control of the nonperforming or delayed party, including but not limited to, acts of God, acts of government, wars, riots, strikes or other labor disputes, shortages of labor or materials, fires and floods, provided the nonperforming or delayed party provides to the other Party written notice of the existence and the reason for such nonperformance or delay. The nonperformance or delay of a Party in excess of one hundred eighty (180) days will constitute cause for termination of this Agreement by written notice to the nonperforming or delayed party.

- 7.15 Each Party shall keep confidential all information and proprietary rights received from the other Party in connection with this Agreement ("Confidential Information") and shall not, without the prior written approval of the other Party, disclose any Confidential Information to any third party (other than its employees, Affiliates, investors, sub-licensees, agents, representatives, advisors and their respective employees who need to know this Confidential Information for any purpose other in connection with the development, manufacture, use, sale, repair, offer for sale or import of the Licensed Emitter Devices in the Licensed Field in accordance with this Agreement), and use such Confidential Information for any purpose other than in connection with the development, manufacture, use, sale, repair, offer for sale or import of the Licensed Emitter Devices in the Licensed Field in accordance with this Agreement.

The foregoing obligations shall not apply to Confidential Information which

- (a) was in the possession of the receiving Party prior to the execution of this Agreement, or
- (b) is at the time of the execution of this Agreement already part of the public domain or subsequently becomes part of the public domain through no action or omission of the receiving Party, or
- (c) had been disclosed to the receiving Party by a third party which had the lawful right to disclose such information without any restrictions with regard to confidentiality or use of the information, or
- (d) the receiving Party has to disclose by law or stock exchange regulation, provided that the receiving Party gives the disclosing Party reasonable prior notice.

The receiving Party shall bear the burden of proof for the aforementioned exceptions. The confidentiality obligations shall survive a termination or expiration of this Agreement.

- 7.16 (a) Any and all notices or other communications required or permitted by this Agreement or by law to be served on or given to either Party hereto by the other Party shall be in writing and delivered or sent to:

AEB: [REDACTED]

Serac: [REDACTED]

With a copy
to:

[REDACTED]

Each Party may change its address for purposes of this Agreement by written notice to the other Party.

(b) All notices or other communications shall be deemed duly served and given on the date when personally delivered to the Party to whom it is directed, when transmitted electronically by facsimile, or when deposited in the United States mail, first class, postage prepaid, and addressed to the Party at the address in Section 7.16(a).

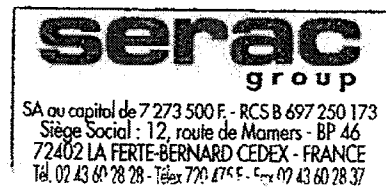
7.17 This Agreement shall be binding upon, and inure to the benefit of, the Parties and their respective successors, assigns and licensees.

7.18 This Agreement may be executed in any number of counterparts, all of which together will constitute a single Agreement. Facsimile signatures will be accepted by the Parties.

[Remainder of Page Intentionally Left Blank --- Signature Page Follows]

IN WITNESS WHEREOF, each of the Parties has caused this Agreement to be executed by its duly authorized representative.

Advanced Electron Beams, Inc	Serac Group
By <u>Richard M. Feldt</u>	By <u>Gerard Guesne</u>
Name: Richard M. FELDT	Name: Gerard GUESNE
Title: Chief Executive Officer	Title: Chief Financial Officer
Dated April 30, 2012	Dated April 30, 2012



ATTACHMENT A

List of Licensed Patents

Advanced Electron Beams / Serac Licensed Patents / Applications

TITLE	STATUS	APP NO	FILED	PAT NO	ISSUED	COUNTRY
ELECTRON BEAM ACCELERATOR	Issued	8778037	2-Jan-97	5962995	5-Oct-99	United States of America
ELECTRON BEAM ACCELERATOR	Issued	9349592	9-Jul-99	6407492	18-Jun-02	United States of America
ELECTRON BEAM ACCELERATOR	Issued	9432527	28-Jun-00	1194944	19-Jan-11	Austria
ELECTRON BEAM ACCELERATOR	Pending	PI00131911	28-Jun-00			Brazil
ELECTRON BEAM ACCELERATOR	Issued	979542628	30-Dec-97	950256	24-Nov-10	Switzerland
ELECTRON BEAM ACCELERATOR	Issued	9432527	28-Jun-00	1194944	19-Jan-11	Switzerland
ELECTRON BEAM ACCELERATOR	Issued	979542628	30-Dec-97	69740064.6	24-Nov-10	Germany
ELECTRON BEAM ACCELERATOR	Issued	9432527	28-Jun-00	600 45 551.3	19-Jan-11	Germany
ELECTRON BEAM ACCELERATOR	Issued	979542628	30-Dec-97	950256	24-Nov-10	European Patent Office
ELECTRON BEAM ACCELERATOR	Issued	9432527	28-Jun-00	1194944	19-Jan-11	European Patent Office
ELECTRON BEAM ACCELERATOR	Pending/ Published	101584944	30-Dec-97			European Patent Office
ELECTRON BEAM ACCELERATOR	Pending/ Published	101584951	30-Dec-97			European Patent Office
ELECTRON BEAM ACCELERATOR	Pending/ Published	101699635	28-Jun-00			European Patent Office
ELECTRON BEAM ACCELERATOR	Issued	979542628	30-Dec-97	950256	24-Nov-10	France
ELECTRON BEAM ACCELERATOR	Issued	9432527	28-Jun-00	1194944	19-Jan-11	France
ELECTRON BEAM ACCELERATOR	Issued	9432527	28-Jun-00	1194944	19-Jan-11	United Kingdom
ELECTRON BEAM ACCELERATOR	Issued	9432527	28-Jun-00	1194944	19-Jan-11	Italy
ELECTRON BEAM ACCELERATOR	Issued	10530255	30-Dec-97	4213770	7-Nov-08	Japan
ELECTRON BEAM ACCELERATOR	Issued	2001509058	28-Jun-00	4808879	26-Aug-11	Japan
ELECTRON BEAM ACCELERATOR	Issued	2008037208	30-Dec-97	4855428	4-Nov-11	Japan
ELECTRON BEAM ACCELERATOR	Pending	2010100751	30-Dec-97			Japan
METHOD OF ACCELERATING ELECTRONS	Issued	2009183768	30-Dec-97	4684342	18-Feb-11	Japan
ELECTRON BEAM ACCELERATOR	Issued	9432527	28-Jun-00	1194944	19-Jan-11	Netherlands
ELECTRON BEAM ACCELERATOR	Nationalized	PCTUS199723993	30-Dec-97			PCT
ELECTRON BEAM ACCELERATOR	Pending	PCTUS200017816	28-Jun-00			PCT
ELECTRON ACCELERATOR HAVING A WIDE ELECTRON BEAM	Issued	9209024	10-Dec-98	6545398	8-Apr-03	United States of America
ELECTRON ACCELERATOR HAVING A WIDE ELECTRON BEAM	Issued	10364295	10-Feb-03	6882095	19-Apr-05	United States of America
ELECTRON ACCELERATOR HAVING A WIDE ELECTRON BEAM	Issued	999660079	7-Dec-99	1153400	3-Mar-10	Switzerland
ELECTRON ACCELERATOR HAVING A WIDE ELECTRON BEAM	Issued	999660079	7-Dec-99	69942102	3-Mar-10	Germany
ELECTRON ACCELERATOR HAVING A WIDE ELECTRON BEAM	Issued	999660079	7-Dec-99	1153400	3-Mar-10	European Patent Office
ELECTRON ACCELERATOR HAVING A WIDE ELECTRON BEAM	Nationalized	PCTUS1999028794	7-Dec-99			PCT

AIR STERILIZING SYSTEM	Pending	18142273	19-Jun-01			China
AIR STERILIZING SYSTEM	Issued	19484708	19-Jun-01	1296749	5-Jan-05	European Patent Office
AIR STERILIZING SYSTEM	Nationalized	PCTUS2001019551	19-Jun-01			PCT
FLUID STERILIZATION APPARATUS	Nationalized	PCTUS200146376	4-Dec-01			PCT
ELECTRON BEAM EMITTER	Issued	9813928	21-Mar-01	6630774	7-Oct-03	United States of America
ELECTRON BEAM EMITTER	Issued	10679033	3-Oct-03	6800989	5-Oct-04	United States of America
ELECTRON BEAM EMITTER	Issued	10957841	4-Oct-04	7180231	20-Feb-07	United States of America
ELECTRON BEAM EMITTER	Nationalized	PCTUS0207442	12-Mar-02			PCT
ELECTRON BEAM EMITTER	Issued	10103539	20-Mar-02	6674229	6-Jan-04	United States of America
ELECTRON BEAM EMITTER	Issued	10751676	5-Jan-04	7265367	4-Sep-07	United States of America
ELECTRON BEAM EMITTER	Issued	11879674	18-Jul-07	7329885	12-Feb-08	United States of America
ELECTRON BEAM EMITTER	Issued	11964273	26-Dec-07	7919763	5-Apr-11	United States of America
ELECTRON BEAM EMITTER	Pending/ Published	13079602	4-Apr-11			United States of America
EXIT WINDOW FOR ELECTRON BEAM EMITTER	Issued	27538214	20-Mar-02	1374273	27-Dec-06	European Patent Office
EXIT WINDOW FOR ELECTRON BEAM EMITTER	Issued	2002575981	20-Mar-02	4557279	30-Jul-10	Japan
EXIT WINDOW FOR ELECTRON BEAM EMITTER	Nationalized	PCTUS200208955	20-Mar-02			PCT
ELECTRON BEAM IRRADIATION APPARATUS	Issued	10097192	12-Mar-02	6833551	21-Dec-04	United States of America
ELECTRON BEAM IRRADIATION APPARATUS	Nationalized	PCT1US02107798	12-Mar-02			PCT
X-RAY IRRADIATION APPARATUS	Issued	27214824	19-Mar-02	1374274	26-Jul-06	European Patent Office
X-RAY IRRADIATION APPARATUS	Nationalized	PCTUS200208439	19-Mar-02			PCT
ELECTRON BEAM SENSOR	Issued	10326923	19-Dec-02	6919570	19-Jul-05	United States of America
ELECTRON BEAM EMITTER WITH CHEVRON GUN AND ANGLED GRID	Pending/ Published	12469123	20-May-09			United States of America
ELECTRON BEAM EMITTER WITH SLOTTED GUN	Pending	NOTYET ASSIGNED	20-May-09			China
ELECTRON BEAM EMITTER WITH SLOTTED GUN	Pending/ Published	97529101	20-May-09			European Patent Office
ELECTRON BEAM EMITTER WITH SLOTTED GUN	Pending/	2011510509	20-May-09			Japan
ELECTRON BEAM EMITTER WITH SLOTTED GUN	Nationalized	PCTUS2009003116	20-May-09			PCT
EMITTER EXIT WINDOW	Pending/ Published	12837914	16-Jul-10			United States of America
THERMALLY ROBUST VACUUM WINDOW	Pending/ Published	PCTUS1042260	16-Jul-10			PCT
CONTOURED SUPPORT GRID FOR HERMETICALLY SEALED THIN FILM APPLICATIONS	Pending	61407090	27-Oct-10			United States of America
CONTOURED SUPPORT GRID FOR HERMETICALLY SEALED THIN FILM APPLICATIONS	Pending/ Pub Apr 27	PCTUS1158116	27-Oct-11			PCT
IMPROVED EBAM STERILIZATION APPARATUS	Pending/ Published	PCTUS2010002071	22-Jul-10			PCT
METHOD AND APPARATUS FOR EBAM TREATMENT OF WEBS AND PRODUCTS MADE THEREFROM	Pending/ Published	12830910	6-Jul-10			United States of America
METHOD AND APPARATUS FOR EBAM TREATMENT OF WEBS AND PRODUCTS MADE THEREFROM	Pending/ Published	PCTUS2010001904	6-Jul-10			PCT
ELECTRON BEAM EMITTER FOR STERILIZING CONTAINERS	Issued	11706075	13-Feb-07	7759661	20-Jul-10	United States of America
ELECTRON BEAM EMITTER FOR STERILIZING CONTAINERS	Pending/ Published	12784983	21-May-10			United States of America
ELECTRON BEAM EMITTER	Pending	PI07078145	13-Feb-07			Brazil
ELECTRON BEAM EMITTER	Nationalized	PCTUS2007003728	13-Feb-07			PCT
ELECTRON BEAM EMITTER	Pending/ Published	77505584	13-Feb-07			European Patent Office
ELECTRON BEAM EMITTER	Pending	6980DELNP2008	13-Feb-07			India
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