

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4386687

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|---|------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>  | LICENSE                      |
| <b>CONVEYING PARTY DATA</b>   |                              |
| <b>Name</b>   | <b>Execution Date</b>        |
| VIRGINIA COMMONWEALTH UNIVERSITY INTELLECTUAL PROPERTY FOUNDATION   | 02/19/2015                   |
| <b>RECEIVING PARTY DATA</b>   |                              |
| <b>Name:</b>  | VARIAN MEDICAL SYSTEMS, INC. |
| <b>Street Address:</b>  | 3100 HANSEN WAY              |
| <b>City:</b>  | PALO ALTO                    |
| <b>State/Country:</b>   | CALIFORNIA                   |
| <b>Postal Code:</b>   | 94304                        |
| <b>PROPERTY NUMBERS Total: 1</b>  |                              |
| <b>Property Type</b>  | <b>Number</b>                |
| <b>Application Number:</b>  | 13294038                     |
| <b>CORRESPONDENCE DATA</b>  |                              |
| <b>Fax Number:</b>  | (408)877-1662                |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                              |
| <b>Phone:</b>   | (408) 321-8663               |
| <b>Email:</b>   | ev@viplawgroup.com           |
| <b>Correspondent Name:</b>  | GERALD CHAN                  |
| <b>Address Line 1:</b>  | VISTA IP LAW GROUP, LLP      |
| <b>Address Line 2:</b>  | 2160 LUNDY AVE., STE. 230    |
| <b>Address Line 4:</b>  | SAN JOSE, CALIFORNIA 95131   |
| <b>ATTORNEY DOCKET NUMBER:</b>  | VM L11-047-US                |
| <b>NAME OF SUBMITTER:</b>   | GERALD CHAN                  |
| <b>SIGNATURE:</b>   | /Gerald Chan/                |
| <b>DATE SIGNED:</b>   | 04/26/2017                   |
| <b>Total Attachments: 11</b>  |                              |
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## LICENSE AGREEMENT

THIS AGREEMENT is made and entered into this 19 day of Feb, 2015, by and between: **VARIAN MEDICAL SYSTEMS, INC.** (hereinafter referred to as the "LICENSEE") with its principal place of business at 3100 Hansen Way, Palo Alto, California 94304, and **VIRGINIA COMMONWEALTH UNIVERSITY INTELLECTUAL PROPERTY FOUNDATION** (hereinafter referred to as the "LICENSOR"), and with its principal place of operation at Virginia Commonwealth University, 800 E. Leigh Street, Suite 113, Richmond, Virginia 23298-0568.

WHEREAS, LICENSOR is charged with management and licensing of intellectual properties developed at Virginia Commonwealth University ("VCU") and, under VCU intellectual property policy, inventions made by employees of VCU or made using the facilities of VCU are required to be assigned to VCU and managed by LICENSOR;

WHEREAS, VCU, along with Aarhus University and University of Sydney, are joint owners of all rights, title, and interest in the Patent Application associated with the VCU Invention Disclosure No. WEI-11-13 entitled "A method for artifact-free three-dimensional imaging and template-based robust segmentation of arbitrarily shape radio-opaque structures in x-ray images acquired at different angles," invented by Drs. Elizabeth Weiss, Geoffrey Hugo, Jun Lu and Emily Brackbill (collectively, the "VCU Inventors"), employees at Virginia Commonwealth University and Rugaard Poulsen, Walther Fledelius and Paul Keall (collectively, the "Outside Inventors")

WHEREAS LICENSEE is desirous of acquiring from LICENSOR certain rights set forth below;

NOW, THEREFORE, in consideration of the promises and the covenants set forth herein, LICENSOR and LICENSEE agree as follows:

### 1. DEFINITIONS

The following definitions shall apply in the interpretation of this Agreement.

1.1 "AFFILIATE" of any company means any corporation which, directly or indirectly, controls or is controlled by, or is under direct or indirect common control with, such company; and for the purposes of this definition "control" (including "control by" and "under common control with") as used with respect to any corporation or company, shall mean the possession, directly or indirectly, of the power to direct or cause the direction of the management and policies of such corporation or company, through the ownership of more than 50% of the voting shares.

1.2 "LICENSED PATENTS" shall mean the VALID CLAIMS of, (i) the United States patents and patent applications, corresponding foreign patents and patent applications as listed in Appendix A, incorporated herein by reference, (ii) any and all U.S. and foreign patent applications, U.S. and foreign patents or related foreign patent documents that directly or indirectly claim priority to the patents and/or patent applications listed in Appendix A, (iii) any and all U.S. and foreign patent applications, U.S. and foreign patents or related foreign patent documents from which the patents and/or patent applications listed in Appendix A claim priority, (iv) any and all reissues, re-examinations, renewals, extensions, substitutions, continuations, divisions, and continuation-in-part applications of the foregoing, and (v) any and all patents issuing from the foregoing or from any application claiming priority to the foregoing.

1.3 "LICENSED PRODUCTS" shall mean any product sold by LICENSEE or LICENSEE's sublicensee in the FIELD OF USE the development, testing, manufacture, use, offering for sale, sale,

demonstration, reproduction, distribution, export or import of or provision of SERVICES for is covered by a VALID CLAIM of the LICENSED PATENTS.

1.4 "EFFECTIVE DATE" shall mean the date of the Agreement set forth above.

1.5 "FIELD OF USE" shall mean any field of use.

1.6 "SERVICES" shall mean training, maintenance, support, installation, deployment, access, analysis or other services provided in connection with Licensed Products.

1.7 "SUBLICENSEE" shall mean any non-affiliated third party to whom LICENSEE has granted a SUBLICENSE. "SUBLICENSE" shall mean an agreement in which LICENSEE (i) grants or otherwise transfers any of the rights licensed to LICENSEE hereunder or other rights that are relevant to designing, developing, testing, making, using, or selling of LICENSED PRODUCTS, (ii) agrees not to assert such rights or to sue, prevent or seek a legal remedy for the practice of same, (iii) assigns or otherwise transfers this Agreement and/or the rights acquired by it, or (iv) is under an obligation to grant, assign or transfer any such rights or non-assertion, or to forebear from granting or transferring such rights to any other entity, including licenses, option agreements, right of first refusal agreements, or other agreements.

1.8 "VALID CLAIM" shall mean a claim of a patent or patent application in any country that (i) has not expired; (ii) has not been disclaimed; (iii) has not been cancelled or superseded, or if cancelled or superseded, has been reinstated; and (iv) has not been revoked, held invalid, or otherwise declared unenforceable or not allowable by a tribunal or patent authority of competent jurisdiction over such claim in such country from which no further appeal has or may be taken.

## II. GRANT

2.1 LICENSOR grants to LICENSEE a fee-bearing, exclusive, worldwide license under its rights in LICENSED PATENTS to develop, test, make, have made, use, offer to sell, sell, demonstrate, reproduce, use, distribute, export, import and provide SERVICES for LICENSED PRODUCTS and otherwise exploit the LICENSED PATENTS, with the right to SUBLICENSE others, throughout the term hereof in the FIELD OF USE. LICENSOR will not further license its rights in LICENSED PATENTS to any commercial third-party during the term of this Agreement. This grant shall be subject to the payment by LICENSEE to LICENSOR of all consideration as provided in this Agreement, and shall be further subject to the rights retained by LICENSOR and VCU to:

- a. publish the scientific findings from research related to LICENSED PATENTS  
; and
- b. to practice under the LICENSED PATENTS for internal educational and non-commercial research, purposes. Such reservation shall include the right to extend such right to practice under the LICENSED PATENTS for educational and non-commercial research purposes to subsequent employers of any of the VCU Inventors, but only to the extent that such employers are not-for-profit organizations. Such reservation shall further include the right to provide technical information, and to grant licenses under the LICENSED PATENTS, to not-for-profit educational and research institutions, and governmental institutions for their internal research and scholarly use only, in accordance with the NIH Guidelines for Obtaining and Disseminating Biomedical Research Resources (as published in the U.S. Federal Register / vol. 64, No. 246 - 12/23/99).

Upon payment in full of the applicable fees specified in Section 3.1, such license (including any sublicenses granted hereunder) shall become fully paid up, royalty free and irrevocable, except as provided in Section 7.5.

2.2 Notwithstanding anything herein to the contrary, any and all licenses and other rights granted hereunder are limited by and subject to the rights and requirements of the United States Government which may attach as a result of Government sponsorship of research at VCU, in which the invention covered by the LICENSED PATENTS was conceived or reduced to practice, as set forth in 35 U.S.C. §§200-206, 37 C.F.R. Part 401 and in the relevant Government research contracts with VCU, and as such rights and requirements may be amended or modified by law. To the extent applicable, such rights and requirements include without limitation (i) the grant of a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the Government any of the LICENSED PATENTS throughout the world (as set forth in 35 U.S.C. §202(c)(4)), and (ii) the requirement that LICENSED PRODUCTS used or sold in the United States will be manufactured substantially in the United States (as set forth in 35 U.S.C. §204).

### **III. PAYMENT PROVISIONS**

3.1 In consideration for the rights, privileges and license granted under this Agreement, the LICENSEE must pay to LICENSOR the fees specified in Appendix B, incorporated herein by reference.

3.2 All payments due the LICENSOR must be paid in U.S. currency to the LICENSOR. LICENSEE agrees to pay interest of 1.5% per month, the interest being compounded monthly, or two hundred fifty dollars (\$250.00), whichever is greater, on any delinquent payments to LICENSOR. LICENSEE shall calculate the correct late payment charge, and shall add it to each such late payment.

### **IV. PATENT PROSECUTION**

4.1 The LICENSEE will use its commercially reasonable efforts to bring one or more LICENSED PRODUCTS to market.

4.2 LICENSEE shall have the sole right and responsibility for the preparation, filing, prosecution, and maintenance of the LICENSED PATENTS at LICENSEE's expense. LICENSEE shall, at LICENSOR's request, provide copies of documents relevant to any material actions necessary for filing, prosecution, issuance and maintenance in advance of such filing. LICENSEE shall consider in good faith any reasonable comments provided by LICENSOR with respect to any patent applications, responses or correspondence, or with respect to the prosecution in general and will list VCU as an assignee on any LICENSED PATENTS filed.

### **V. REPORTING**

5.1 Intentionally Omitted.

### **VI. INFRINGEMENT**

6.1 LICENSOR represents it has the right to grant the rights granted to LICENSEE under this Agreement. LICENSOR makes no warranty or representation that LICENSEE's utilization of the LICENSED PATENTS will not infringe patents owned by third parties nor any warranty or representation as to the validity or scope of any LICENSED PATENTS under which the licenses under this Agreement are granted, provided that LICENSOR represents that it has no actual knowledge of any such infringement by any LICENSED PATENTS or any basis for invalidity of any LICENSED PATENTS as of the Effective Date. Except as expressly provided above, LICENSEE acknowledges and agrees that all rights licensed by the LICENSOR hereunder are licensed "as is" and without any representation, indemnification or warranty with respect to possible infringement of third party rights. In the event of a third party infringement action against either party with respect to any LICENSED PATENTS related to LICENSEE's sale and marketing of the LICENSED PRODUCTS, LICENSEE will defend LICENSOR and VCU at LICENSEE's expense, with the understanding that breaching such obligation may result in a default judgment against LICENSEE, its AFFILIATES, SUBLICENSEES, and/or LICENSOR. The foregoing is conditioned upon LICENSOR and VCU providing LICENSEE with prompt notice and with sole control of defense and settlement of any such claim; provided however, that LICENSEE's failure to defend shall not prevent VCU and LICENSOR from defending themselves. LICENSEE shall indemnify, defend and hold VCU and LICENSOR harmless from any such judgment, and without limitation shall pay any damages awarded in any judgment, as described in the previous sentence, against VCU and LICENSOR. LICENSOR will cooperate as requested by LICENSEE, and will be compensated by LICENSEE for its reasonable out-of-pocket expenses incurred in such cooperation, which LICENSOR will only be required to expend if LICENSEE has approved the same for reimbursement.

6.2 LICENSEE and LICENSOR shall promptly inform each other in writing of any alleged infringement of the LICENSED PATENTS by a third party.

6.3 During the term of this agreement, , LICENSEE will have the sole right, but shall not be obligated, to prosecute at its own expense all infringements of the LICENSED PATENTS and, in furtherance of such right, LICENSEE may include LICENSOR as a party plaintiff in any such suit, at LICENSEE's expense. LICENSEE shall pay costs and reasonable attorney fees incurred in such action. Any recovery of damages by LICENSEE as a result of such action shall be retained 100% by LICENSEE.

6.4 Intentionally omitted

6.5 Intentionally omitted.

6.6 In any infringement suit instituted by LICENSEE to enforce the LICENSED PATENTS pursuant to this Agreement, LICENSOR shall, at the request of LICENSEE and upon reasonable notice, cooperate in all respects and, to the extent possible, have its employees testify when requested and make available relevant records, papers, information samples, models, specimens and the like.

6.7 LICENSEE, shall have the sole right in accordance with the terms and conditions herein to SUBLICENSE any alleged infringer for future use of LICENSED PATENTS.

6.8 In the event of any legal action alleging invalidity of any of the LICENSED PATENTS shall be brought against LICENSEE, or LICENSOR, LICENSEE, at its option, shall have the sole right to intervene and take over the sole defense of the action at its own expense. If LICENSEE declines to defend, LICENSOR shall have the option, at its own expense, to defend such action.

## VII. TERM AND TERMINATION

7.1 This Agreement is in full force and effect from the EFFECTIVE DATE and remains in effect until the expiration of the last to expire LICENSED PATENTS, unless sooner terminated by operation of law or by acts of either of the parties in accordance with the terms of this Agreement.

7.2 LICENSEE may terminate this Agreement at any time by giving LICENSOR ninety (90) days written notice. In the event of termination of this Agreement by LICENSEE, LICENSEE shall have no further rights under this Agreement.

7.3 LICENSOR may terminate this Agreement if LICENSEE fails to pay on the due date any sum due under Article 3 and Appendix B of this Agreement or materially breaches the Indemnification or Insurance Sections (Sections 9.5 and 9.6, respective) of this Agreement, and fails to correct such default within thirty (30) days after receipt of written notice by LICENSOR.

7.4 Intentionally Omitted.

7.5 Intentionally Omitted.

7.6 Surviving any termination or expiration are:

- a. Any cause of action or claim of LICENSEE or LICENSOR, accrued or to accrue, because of any breach or default by the other party;
- b. LICENSEE's license pursuant to paragraph 3.1, including any SUBLICENSES granted thereunder, after such license has become fully paid up, royalty free and irrevocable ; and
- c. Paragraphs 9.5, and 9.7, and any other provisions that by their nature are intended to survive.

7.7 No relaxation, forbearance, delay or indulgence by either party in enforcing any of the terms of this Agreement or the granting of time by either party to the other shall prejudice, affect or restrict the rights and powers of the former hereunder nor shall any waiver by either party of a breach of this Agreement be considered as a waiver of any subsequent breach of the same or any other provision hereof.

7.8 The rights to terminate this Agreement given by this clause shall not prejudice any other right or remedy of either party in respect of the breach concerned (if any) or any other breach.

## VIII. SUBLICENSE(S)

8.1 LICENSEE shall have the right to seek SUBLICENSES subject to the terms and conditions of this agreement as stated in Article II and as defined in this Article VIII. For the purposes of this Agreement, the operations of all SUBLICENSEES shall be deemed to be the operations of the LICENSEE, for which the LICENSEE shall be responsible.

8.2 Intentionally Omitted.

8.3 Intentionally Omitted.

8.4 Upon termination of this Agreement for any reason prior to the license granted under Section 3.1 becoming fully paid-up, royalty-free and irrevocable, any or all SUBLICENSES will be canceled or assigned to LICENSOR. In the event of termination of this Agreement and if LICENSOR accepts

assignment of any SUBLICENSE, LICENSOR will not be bound by any grant of rights broader than or will not be required to perform any obligation other than those rights and obligations contained in this Agreement.

## IX. MISCELLANEOUS

9.1 Nothing in this Agreement shall create, or be deemed to create, a partnership, or the relationship of principal and agent, between the parties.

9.2 Assignment. So long as LICENSEE is not in breach of this Agreement in any respect, LICENSEE may assign or otherwise transfer this Agreement and/or the rights acquired by it hereunder upon written notice to LICENSOR, to the extent that such assignment or transfer is accompanied by a sale or other transfer of LICENSEE's entire business or a portion thereof, and to the extent that assignee is not prohibited from doing business in the state of Virginia regardless of whether such transfer is in the form of a sale of the LICENSEE's assets, a sale of the majority shares of LICENSEE's equity, a merger, an equity exchange, or other form of transfer. .

9.3 Subject to Section 9.2 of this Agreement, the clauses are personal to the parties and neither party may assign, mortgage, charge or license any of its rights hereunder, nor may either party sub-contract or otherwise delegate any of its obligations hereunder, except with the prior written consent of the other party.

9.4 Intentionally Omitted.

9.5 LICENSEE shall at all times during the term of this Agreement and thereafter indemnify, defend and hold LICENSOR and VCU, its trustees, directors, officers, employees and affiliates (the "Indemnitees") harmless against all claims, proceedings, demands and liabilities, including reasonable legal expenses incurred by or imposed upon the Indemnitees in connection with any claims, suits, actions, demands or judgments arising out of any theory of product liability (including, but not limited to, actions in the form of tort, warranty, or strict liability) concerning any LICENSED PRODUCTS made, used, or sold by LICENSEE pursuant to any rights or license granted under this Agreement (hereinafter a "Claim"). LICENSEE's obligation to indemnify shall not apply to Claims arising directly from the gross negligence or willful misconduct of LICENSOR. The foregoing indemnities are conditioned on the Indemnitee giving the LICENSEE prompt notice of the claim, giving the LICENSEE sole control over the defense or settlement of the claim, and providing all reasonable assistance to the LICENSEE.

9.6 LICENSEE shall obtain and carry in full force and effect commercial, general liability insurance sufficient to cover LICENSEE's obligations under this Section. Such insurance shall be written by a reputable company shall include liability coverage. The limits of such insurance shall not be less than one million dollars (\$1,000,000) per occurrence with an aggregate of five million (\$5,000,000) for personal injury or death, and one million dollars (\$1,000,000) per occurrence with aggregate of three million dollars (\$3,000,000) for property damage. LICENSEE may elect to self-insure, or to procure equivalent general umbrella coverage.

9.7 Disclaimers. Nothing in this Agreement shall be construed as (i) a warranty or representation by LICENSOR as to the validity or scope of any LICENSED PATENTS (ii) a warranty or representation that anything made, used, imported, developed, promoted, offered for sale, sold, or otherwise disposed of under any license granted in this Agreement does not or will not infringe patents, trade secrets or other proprietary rights of third parties; (iii) an obligation to bring or prosecute actions or suits against third parties for infringement; (iv) conferring the right to use in advertising, publicity or otherwise any trademark, trade name, or names, or any contraction, abbreviation, simulation or adaptation thereof of VCU or LICENSOR; (v) conferring by implication, estoppel or otherwise any license or rights under any



patents of LICENSOR other than the LICENSED PATENTS; (vi) any other representations or warranties, either express or implied, unless specified in this Agreement; (vii) directly or indirectly operating or applying as a waiver of sovereign immunity by the Commonwealth of Virginia; or (viii) imposing any obligation or any liability on any party contrary to the laws of the Commonwealth of Virginia. LICENSOR DISCLAIMS AND MAKES NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE LICENSED RIGHTS, OR ANY LICENSED PRODUCTS.

9.8 For the purposes of this Agreement "Force Majeure" means any circumstances beyond the reasonable control of either party including, without limitation, any strike, lock-out, or other form of industrial action. If either party is affected by Force Majeure, it shall as soon as reasonably practicable notify the other party of the nature and extent thereof. Neither party shall be deemed to be in breach of this Agreement, or otherwise be liable to the other, by reason of any delay in performance, or the non-performance, of any of its obligations under this Agreement, to the extent that such delay or non-performance is due to any Force Majeure of which it has notified the other party, and the time for performance of that obligation shall be extended accordingly. If the Force Majeure in question prevails for a continuous period in excess of six (6) months, the parties shall enter into bona fide discussions with a view to alleviating its effects, or to agreeing upon such alternative arrangements as may be fair and reasonable.

9.9 LICENSEE shall not use the names or trademarks of LICENSOR, nor any adaptation thereof, nor the names of any of its employees, in any advertising, promotional or sales literature without prior written consent obtained from LICENSOR, or said employee, in each case, except that the LICENSEE may state that it is a LICENSEE of LICENSOR with respect to the LICENSED PATENTS.

9.10 Any notice or payment required to be given to either party will be deemed to have been properly given and to be effective:

- a. on the date of delivery if delivered in person;
- b. on the date of mailing if mailed by first-class certified mail, postage paid; or
- c. on the date of mailing if mailed by any global express carrier service that requires the recipient to sign the documents demonstrating the delivery of such notice or payment;

to the respective addresses given below, or to another address as designated in writing by the party changing its address.

VIRGINIA COMMONWEALTH UNIVERSITY  
INTELLECTUAL PROPERTY FOUNDATION

President  
Box 980568  
800 E. Leigh Street, Suite 113  
Virginia Commonwealth University  
Richmond, VA 23298-0568

COMPANY

Greg Ahlstrom

Varian Medical Systems, Inc.  
3100 Hansen Way, M/S G-205  
Palo Alto, CA 94304

With Copy to:

Varian Medical Systems, Inc.  
3100 Hansen Way  
Palo Alto, CA 94304

ATTN: Legal Department  
Facsimile: (650) 424-5998

9.11 This Agreement contains the entire and only agreement and understanding between the parties and supersedes all preexisting agreements between them respecting its subject matter. Any representation, promises, or condition in connection with such subject matter which is not incorporated in this Agreement shall not be binding on either party. No modification, renewal, waiver, and no termination of this Agreement or any of its provisions shall be binding upon the party against whom enforcement of such modification, renewal, waiver or termination is sought, unless made in writing and signed on behalf of such party by one of its duly authorized officers. As used herein, the word "termination" includes any and all means of bringing an end prior to its expiration by its own terms this Agreement, or any provisions thereof, whether by release, discharge, abandonment or otherwise.

9.12 This Agreement shall be construed, governed, interpreted and applied in accordance with the laws of the Commonwealth of Virginia, U.S.A., except that questions affecting the construction and effect of any patent shall be determined by the law of the country in which the patent was granted.

9.13 This Agreement may be executed in one or more counterparts and any party hereto may execute any such counterparts each of which shall be deemed an original and all of which, taken together, shall constitute but one and the same document. It shall not be necessary in making proof of this document or any counterpart hereof to produce or account for any of the other counterparts.

9.14 The provisions of this Agreement are severable, and in the event that any provisions of this Agreement shall be determined to be invalid or unenforceable under any controlling body of the law, such invalidity and unenforceability shall not in any way affect the validity or enforceability of the remaining provisions hereof. In the event the validity or unenforceability of any provision of this Agreement is brought into question because of the decision of a court of competent jurisdiction, the Parties, by mutual consent, may revise the provision in question or may delete it entirely so as to comply with the decision of said court.

9.15 The failure of either party to assert a right hereunder or to insist upon compliance with any term or condition of this Agreement shall not constitute a waiver of that right or excuse a similar failure to perform any such term or condition by the other party.

9.16 It is understood that LICENSOR and VCU are subject to United States laws and regulations controlling the export of technical data, computer software, laboratory prototypes and other commodities (including the Arms Export Control Act, as amended and the United States Department of Commerce Export Administration Act of 1979). The transfer of such items may require a license from the cognizant agency of the United States Government and/or written assurances by LICENSEE that LICENSEE shall

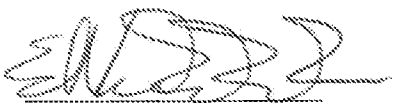
not export data or commodities to certain foreign countries without prior approval of such agency. LICENSOR neither represents that license shall not be required nor, if required, it shall be issued.

9.17 All reports and documents to be forwarded to LICENSOR shall be in the English language.

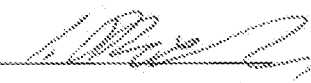
IN WITNESS WHEREOF, the parties have caused this Agreement to be executed in duplicate as first above written.

**AGREED AND ACCEPTED:**

VARIAN MEDICAL SYSTEMS, INC.:

By:   
Date: 3/2/15  
Title: Ed Vertatschitsch

VIRGINIA COMMONWEALTH UNIVERSITY  
INTELLECTUAL PROPERTY FOUNDATION

By:   
Date: 2/19/15  
Ivelina S. Metcheva, Ph.D., MBA  
President VCU Intellectual Property Foundation

**APPENDIX A  
LICENSED PATENTS**

**1. U.S. Patent Rights**

U.S. Patent Application No.13/294,038 entitled "SYSTEMS AND METHODS FOR SEGMENTATION OF RADIOPAQUE STRUCTURES IN IMAGES", filed 11/10/2011.