

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT4367933

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ESA KUUSELA	04/11/2017
JARKO Y. PELTOLA	03/12/2017
JOAKIM PYYRY	03/21/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VARIAN MEDICAL SYSTEMS INTERNATIONAL AG
<b>Street Address:</b>	HINTERBERGSTRASSE 14
<b>Internal Address:</b>	CH-6330
<b>City:</b>	CHAM
<b>State/Country:</b>	SWITZERLAND
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15487284
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)938-9069
<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>	408-938-9060
<b>Email:</b>	cholland@mhbpatents.com
<b>Correspondent Name:</b>	MURABITO, HAO & BARNES LLP (VARIAN)
<b>Address Line 1:</b>	TWO NORTH MARKET STREET, THIRD FLOOR
<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95113
<b>ATTORNEY DOCKET NUMBER:</b>	VAR-16-042-US
<b>NAME OF SUBMITTER:</b>	JAMES P. HAO
<b>SIGNATURE:</b>	/James P. Hao/
<b>DATE SIGNED:</b>	04/13/2017
<b>Total Attachments: 3</b>	
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source=VAR-16-042-US_Assignment#page3.tif	

# Assignment to Varian Medical Systems International AG

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Esa KUUSELA

do hereby sell, assign, and transfer unto Varian Medical Systems International AG, having its principal place of business at Hinterbergstrasse 14, CH-6330 Cham Switzerland, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

## KNOWLEDGE BASED TREATMENT PLANNING CORRECTED FOR BIOLOGICAL EFFECTS

X filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or  
Serial No.: \_\_\_\_\_ filed on \_\_\_\_\_ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of Varian Medical Systems International AG its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Varian Medical Systems Technologies, Inc., its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Varian Medical Systems Technologies, Inc..

I/we further covenant with Varian Medical Systems International AG its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:  Date: 11 Apr 2017  
Esa KUUSELA

## Assignment to Varian Medical Systems International AG

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we  
Jarkko Y. PELTOLA

do hereby sell, assign, and transfer unto Varian Medical Systems International AG., having its principal place of business at Hinterbergstrasse 14, CH-6330 Cham Switzerland, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

### KNOWLEDGE BASED TREATMENT PLANNING CORRECTED FOR BIOLOGICAL EFFECTS

filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or  
Serial No.: \_\_\_\_\_ filed on \_\_\_\_\_ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of Varian Medical Systems International AG its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Varian Medical Systems Technologies, Inc., its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Varian Medical Systems Technologies, Inc..

I/we further covenant with Varian Medical Systems International AG its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature: \_\_\_\_\_

  
Jarkko Y. PELTOLA

Date: \_\_\_\_\_

MAR 12, 2017

## Assignment to Varian Medical Systems International AG

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we

Joakim PYYRY

do hereby sell, assign, and transfer unto Varian Medical Systems International AG, having its principal place of business at Hinterbergstrasse 14, CH-6330 Cham Switzerland, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

### KNOWLEDGE BASED TREATMENT PLANNING CORRECTED FOR BIOLOGICAL EFFECTS

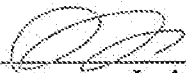
X filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or  
Serial No.: \_\_\_\_\_ filed on \_\_\_\_\_ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of Varian Medical Systems International AG its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Varian Medical Systems Technologies, Inc., its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by Varian Medical Systems Technologies, Inc..

I/we further covenant with Varian Medical Systems International AG its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature: \_\_\_\_\_



Joakim PYYRY

Date: March 21, 2017