506103232 06/11/2020

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| ESA KUUSELA | 12/22/2019 |
| LAURI JAAKONPOIKA HALKO | 12/23/2019 |
| JARKKO PELTOLA | 12/30/2019 |
| EMMI RUOKOKOSKI | 12/31/2019 |

RECEIVING PARTY DATA

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| State/Country: | SWITZERLAND |
| Postal Code: | 6312 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16237489 |

CORRESPONDENCE DATA

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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.

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| ATTORNEY DOCKET NUMBER: | VM 2017-026US01 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | JENNIFER NGUYEN |
| SIGNATURE: | /JENNIFER NGUYEN/ |
| DATE SIGNED: | 06/11/2020 |

Total Attachments: 5

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PATENT 506103232 REEL: 052913 FRAME: 0088

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PATENT REEL: 052913 FRAME: 0089

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, WE, Esa KUUSELA, Lauri Jaakonpoika HALKO, Jarkko PELTOLA, and Emmi RUOKOKOSKI (hereinafter referred to as "ASSIGNORS"), have invented a certain invention entitled SYSTEMS AND METHODS FOR TREATMENT PLANNING USING CONTINUOUS QUALITY METRICS, for which Utility Application for Letters Patent of the United States of America was filed on December 31, 2018, and given application number 16/237,489, and

WHEREAS, Varian Medical Systems International AG, having its principal place of business at Hinterbergstrasse 14, 6312 Steinhausen, Switzerland (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assign, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application, and to any provisional from which priority is claimed, continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under any international conventions or treaties; and ASSIGNORS hereby authorize and request officials of the United States Patent and Trademark Office, and any officials of foreign countries whose duty it

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is to issue patents or any legal equivalent thereof, to issue said patents to ASSIGNEE, its

successors and assigns, in accordance with this Assignment.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has

been or will be made or entered into which would conflict with this Agreement;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided

promptly with all pertinent facts and documents relating to said application, said invention and said

Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will

testify as to the same in any interference or litigation related thereto and will promptly execute and

deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits

required to apply for, obtain, maintain, issue and enforce said application, said invention and said

Letters Patent and said equivalents in the United States or in any foreign country, which may be

necessary or desirable to carry out the purposes thereof.

12/22/2019

Date

DocuSigned by:

Esa KUUSELA

12/23/2019

Date

Lauri Jaakonpoika HALKO

12/30/2019

Date

and to

Jarkko PELTOLA

| | DocuSigned by: |
|------------|-----------------|
| 12/31/2019 | Emmi Ruokokoski |
| Date | Emmi RÜÖKÖKOSKI |