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(54) **SYSTEMS AND METHODS FOR TREATMENT PLANNING USING CONTINUOUS QUALITY METRICS**

SYSTEME UND VERFAHREN ZUR BEHANDLUNGSPLANUNG MIT KONTINUIERLICHEN QUALITÄTSMETRIKEN

SYSTÈMES ET PROCÉDÉS DE PLANIFICATION DE TRAITEMENT UTILISANT DES MESURES DE QUALITÉ CONTINUES

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(73) Proprietor: **Siemens Healthineers International AG
6312 Steinhausen (CH)**

(72) Inventors:
• **KUUSELA, Esa**
Helsinki 00270 (FI)
• **HALKO, Lauri Jaakonpoika**
Helsinki 00270 (FI)
• **RUOKOKOSKI, Emmi**
Helsinki 00270 (FI)

• **PELTOLA, Jarkko**
Tuusula, 04300 (FI)

(74) Representative: **Foster, Mark Charles et al**
Mathisen & Macara LLP
Charta House
30-38 Church Street
Staines-upon-Thames, Middlesex TW18 4EP (GB)

(56) References cited:
EP-A1- 3 418 926 WO-A1-2018/122251

• **JAN UNKELBACH ET AL: "Optimization
approaches to volumetric modulated arc therapy
planning", MEDICAL PHYSICS, vol. 42, no. 3, 25
February 2015 (2015-02-25), pages 1367-1377,
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