UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE PATENT TRIAL AND APPEAL BOARD

In Re: U.S. Patent 6,888,919 : Attorney Docket No. 076695.0106

Inventor: Ulrich Martin Graf:

Filed: November 2, 2001 :

Issued: May 3, 2005 : IPR No. 2016-01904

Assignee: Varian Medical Systems, Inc.

Title: Radiotherapy Apparatus Equipped with an Articulable Gantry for

Positioning an Imaging Unit

Mail Stop PATENT BOARD Patent Trial and Appeal Board U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, Virginia 22313-1450

Submitted Electronically via the Patent Review Processing System

DECLARATION OF KENNETH GALL



TABLE OF CONTENTS

			Page
I.	Background and Qualifications.		
	A.	Educational Background	2
	B.	Career History	2
	C.	Publications and Patents	4
	D.	Materials and Other Information Considered	5
II.	Understanding of the Law.		5
	A.	Legal Standard for Claim Construction	6
	B.	Legal Standard for Anticipation	11
	C.	Legal Standard for Obviousness	12
III.	Lev	rel of Skill of One of Ordinary Skill in the Art	14
IV.	Technology Background		16
	A.	State of the Art	16
	B.	Subject Matter of the '919 Patent	27
V.	Claim Construction		32
	A.	"gantry"	
	B.	"a second gantry that is rotatable"	37
	C.	"articulable end [of the second gantry]"	41
	D.	"extending and retracting [the second radiation source]"	43
VI.	Summary of the Prior Art		45
	A.	Jaffray '502	45
	B.	Watanabe	56
	C.	Maschke	58
VII.	. Opinions		59
	A.	Jaffray '502 Does Not Show a Rotatable Second Gantry	59
	B.	Jaffray '502 Does Not Disclose Extending and Retracting the Second Radiation Source	64



C.	There is No Motivation to Combine Jaffray '502's Embodiments of Figure 20 and Figure 21 to Show an Articulable End of the	
	Second Gantry. 71	1
D.	There is No Motivation to Combine Jaffray '502 with Watanabe.77	7
E.	There is No Motivation to Combine Jaffray '502 and Watanabe with Maschke	1
/III.	Reservation of Rights	5



I, Kenneth P. Gall, declare as follows:

- 1. My name is Kenneth P. Gall, Ph.D. I am currently an independent technical consultant. I have prepared this report as an expert witness retained by Varian Medical Systems, Inc. ("Varian"). In this report I give my opinions as to whether certain claims of U.S. Patent No. 6,888,919 ("the '919 Patent") are invalid. I provide technical bases for these opinions as appropriate.
- 2. This report contains statements of my opinions formed to date and the bases and reasons for those opinions. I may offer additional opinions based on further review of materials in this case, including opinions and/or testimony of other expert witnesses. I make this declaration based upon my own personal knowledge and, if called upon to testify, would testify competently to the matters contained herein. For my efforts in connection with the preparation of this declaration I have been compensated at my customary consulting rate. My compensation is in no way contingent on the results of these or any other proceedings relating to the above-captioned patent.

I. <u>BACKGROUND AND QUALIFICATIONS</u>

3. I have summarized in this section my educational background, career history, publications, and other relevant qualifications. My full



curriculum vitae is attached as Appendix A to this report.

A. Educational Background

4. I received a Bachelor of Arts degree in 1981 from Colby College in Waterville, ME. I received a Master of Arts in Physics in 1985 and a Doctor of Philosophy in Nuclear/Particle Physics in 1989 from Boston University in Boston, MA.

B. Career History

- 5. I have approximately 28 years of experience working in radiation therapy treatment system development, radiation dosimetry, and automation of image-guided patient positioning for radiation therapy. I have gained this experience working in research institutions, universities, hospitals, and corporations. I have been certified in Therapeutic Radiological Physics by the American Board of Radiology since 1994. I have worked on many projects and technologies highly relevant to the subject matter of the '919 Patent.
- 6. I have held the following academic appointments: (1) Instructor in Radiation Therapy, Harvard Medical School, Massachusetts General Hospital, from 1988-1996; (2) Associate Professor, with Tenure, University of Texas Southwestern Medical School, from 1996-2003; and (3) Visiting Scientist, Plasma Science and Fusion Center, Massachusetts Institute of



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

