

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM512307

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT OF SECURITY AGREEMENTS		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
MIDCAP FUNDING X TRUST (as successor by assignment from MidCap Funding IV Trust, as successor by assignment from MidCap Financial Trust), as existing administrative agent		02/21/2019	statutory trust: DELAWARE
RECEIVING PARTY DATA			
Name:	MIDCAP FUNDING IV TRUST, as successor to existing administrative agent		
Street Address:	7255 Woodmont Avenue, Suite 200		
Internal Address:	c/o MidCap Financial Services, LLC, as servicer		
City:	Bethesda		
State/Country:	MARYLAND		
Postal Code:	20814		
Entity Type:	statutory trust: DELAWARE		
PROPERTY NUMBERS Total: 34			
Property Type	Number	Word Mark	
Serial Number:	86904926	ACCURAY	
Serial Number:	86744366	IDMS	
Serial Number:	86864567	ACCURAY PRECISION	
Serial Number:	86904966	PRECISEART	
Serial Number:	86904972	PRECISERTX	
Registration Number:	2159142	CYBERKNIFE	
Registration Number:	3121089	SYNCHRONY	
Registration Number:	3303434	ROBOCOUCH	
Registration Number:	3177967	INVIEW	
Registration Number:	3181425	MULTIPLAN	
Registration Number:	3298517	XSIGHT	
Registration Number:	3496392	XSIGHT	
Registration Number:	3306634	ACCURAY	
Registration Number:	3378543	ACCURAY	

CH \$865.00 86904926

Property Type	Number	Word Mark
Registration Number:	3306635	
Registration Number:	3465111	CYBERKNIFE UNIVERSITY
Registration Number:	3631869	XCHANGE
Registration Number:	3620082	ACCURAY CAPITAL
Registration Number:	3904968	CYBERKNIFE VSI
Registration Number:	3829517	QUICKPLAN
Registration Number:	4332520	PLANTOUCH
Registration Number:	4240551	AERO ACCURAY EXCHANGE IN RADIATION ONCOL
Registration Number:	2729995	TOMOTHERAPY HI ART
Registration Number:	2840349	HI ART
Registration Number:	2840348	HI ART
Registration Number:	2788956	TOMO
Registration Number:	4417188	TOMOTHERAPY
Registration Number:	4418909	TOMOHD
Registration Number:	4621369	TOMOH
Registration Number:	4808683	STATRT
Registration Number:	4042324	RADIATE HOPE
Registration Number:	4042326	RADIATE HOPE
Registration Number:	4042325	TARGETING CANCER TOGETHER
Registration Number:	5092439	RADIXACT

CORRESPONDENCE DATA

Fax Number:

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.

Email: hmill@vedderprice.com

Correspondent Name: Holly Miller

Address Line 1: 222 North LaSalle Street - 24th Floor

Address Line 2: Vedder Price P.C.

Address Line 4: Chicago, ILLINOIS 60601

ATTORNEY DOCKET NUMBER: 41012.00.0194

NAME OF SUBMITTER: Holly Miller

SIGNATURE: /Holly Miller/

DATE SIGNED: 03/01/2019

Total Attachments: 25

source=41012.00.0194 - Assignment of Security Agreements#page1.tif

source=41012.00.0194 - Assignment of Security Agreements#page2.tif

source=41012.00.0194 - Assignment of Security Agreements#page3.tif

source=41012.00.0194 - Assignment of Security Agreements#page4.tif

source=41012.00.0194 - Assignment of Security Agreements#page5.tif

source=41012.00.0194 - Assignment of Security Agreements#page6.tif
source=41012.00.0194 - Assignment of Security Agreements#page7.tif
source=41012.00.0194 - Assignment of Security Agreements#page8.tif
source=41012.00.0194 - Assignment of Security Agreements#page9.tif
source=41012.00.0194 - Assignment of Security Agreements#page10.tif
source=41012.00.0194 - Assignment of Security Agreements#page11.tif
source=41012.00.0194 - Assignment of Security Agreements#page12.tif
source=41012.00.0194 - Assignment of Security Agreements#page13.tif
source=41012.00.0194 - Assignment of Security Agreements#page14.tif
source=41012.00.0194 - Assignment of Security Agreements#page15.tif
source=41012.00.0194 - Assignment of Security Agreements#page16.tif
source=41012.00.0194 - Assignment of Security Agreements#page17.tif
source=41012.00.0194 - Assignment of Security Agreements#page18.tif
source=41012.00.0194 - Assignment of Security Agreements#page19.tif
source=41012.00.0194 - Assignment of Security Agreements#page20.tif
source=41012.00.0194 - Assignment of Security Agreements#page21.tif
source=41012.00.0194 - Assignment of Security Agreements#page22.tif
source=41012.00.0194 - Assignment of Security Agreements#page23.tif
source=41012.00.0194 - Assignment of Security Agreements#page24.tif
source=41012.00.0194 - Assignment of Security Agreements#page25.tif

ASSIGNMENT OF SECURITY AGREEMENTS

THIS ASSIGNMENT OF SECURITY AGREEMENTS (this “Agreement”) is made as of this 21st day of February, 2019, by and between **MIDCAP FUNDING X TRUST**, a Delaware statutory trust (as successor by assignment from MidCap Funding IV Trust, as successor by assignment from MidCap Financial Trust), in its capacity as the existing administrative agent (in such capacity, the “Retiring Agent”), and **MIDCAP FUNDING IV TRUST**, a Delaware statutory trust, in its capacity as successor to the Retiring Agent (in such capacity, together with its successors and assigns, the “Successor Agent”).

W I T N E S S E T H:

WHEREAS, Grantors, as defined in those certain:

- a. Trademark Security Agreement recorded with the United States Patent and Trademark Office on June 15, 2017 at Reel 6085, Frame 0211;
- b. Supplement to Trademark Security Agreement recorded with the United States Patent and Trademark Office on July 12, 2018 at Reel 6378, Frame 0457 (as the foregoing items a. and b. have been and may hereafter be amended, restated, supplemented or otherwise modified from time to time, collectively, the “Trademark Security Agreements”);
- c. Patent Security Agreement recorded with the United States Patent and Trademark Office on June 15, 2017 at Reel 042826, Frame 0358;
- d. Supplement to Patent Security Agreement recorded with the United States Patent and Trademark Office on December 19, 2017 at Reel 044910, Frame 0967; and
- e. Supplement to Patent Security Agreement recorded with the United States Patent and Trademark Office on July 12, 2018 at Reel 046336, Frame 0932 (as the foregoing items c., d. and e. have been and may hereafter be amended, restated, supplemented or otherwise modified from time to time, collectively, the “Patent Security Agreements”)

and Retiring Agent, as administrative agent, are parties to the Trademark Security Agreements and Patent Security Agreements pursuant to which Grantors granted a security interest in and to and lien upon certain intellectual property, including the Trademarks (as defined in the Trademark Security Agreements) and the Patents (as defined in the Patent Security Agreements,) identified in Schedule A hereto; and

WHEREAS, pursuant to that certain Agency Assignment and Assumption by and between Retiring Agent and Successor Agent dated as of February 13, 2019, Retiring Agent has assigned to Successor Agent all of its rights, remedies, duties and other obligations under, among other documents, the Trademark Security Agreements and the Trademarks, and the Patent Security Agreements and the Patents in each instance, in its capacity as administrative agent.

NOW, THEREFORE, in consideration of the foregoing, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Retiring Agent hereby

assigns and transfers to Successor Agent and its successors and assigns all of its rights, title and interest in and to the Trademark Security Agreements and Patent Security Agreements.

This Agreement may be executed in any number of counterparts, each of which when so executed shall be deemed an original and all of which taken together shall constitute one and the same instrument.

(Signature Pages Follow)


(Signature Page to Assignment of Security Agreements)

IN WITNESS WHEREOF, intending to be legally bound, Retiring Agent and Successor Agent have caused this Agreement to be duly executed as of the day and year first hereinabove set forth.

RETIRING AGENT: **MIDCAP FUNDING X TRUST**, a Delaware statutory trust

By: Apollo Capital Management, L.P.
Its: Investment Manager

By: Apollo Capital Management, GP, LLC
Its: General Partner

By: 
Name: Maurice Amsellem
Title: Authorized Signatory


(Signature Page to Assignment of Security Agreements)

Agreed and Accepted
as of the Date First
Written Above

SUCCESSOR AGENT: MIDCAP FUNDING IV TRUST, a Delaware statutory trust

By: Apollo Capital Management, L.P.
Its: Investment Manager

By: Apollo Capital Management GP, LLC
Its: General Partner

By: 
Name: Maurice Amsellem
Title: Authorized Signatory

Schedule A

United States Trademark Applications

TRADEMARK/ SERVICE MARK	SERIAL NUMBER	APPLICANT	APPLICATION DATE
ACCURAY AND DESIGN OF NEW LOGO	86/904,926	Accuray Incorporated	Feb 11, 2016
IDMS	86/744,366	Accuray Incorporated	Sep 1, 2015
ACCURAY PRECISION	86/864,567	Accuray Incorporated	Jan 4, 2016
PRECISEART	86/904,966	Accuray Incorporated	Feb 11, 2016
PRECISERTX	86/904,972	Accuray Incorporated	Feb 11, 2016

United States Trademarks

TRADEMARK/ SERVICE MARK	REGISTRATION NUMBER NO.	REGISTRANT	REGISTRATION DATE
CYBERKNIFE	2159142	Accuray Incorporated	May 19, 1998
CYBERKNIFE	868376	Accuray Incorporated	Oct 7, 2005
SYNCHRONY	3121089	Accuray Incorporated	Jul 25, 2006
ROBOCOUCH	3303434	Accuray Incorporated	Oct 2, 2007
INVIEW	3177967	Accuray Incorporated	Nov 28, 2006
MULTIPLAN	3181425	Accuray Incorporated	Dec 5, 2006
XSIGHT	3298517	Accuray Incorporated	Sep 25, 2007
XSIGHT (REG.NO 3496392)	3496392	Accuray Incorporated	Sep 2, 2008
XSIGHT	923838	Accuray Incorporated	Oct 11, 2006
ACCURAY (STANDARD CHARACTERS)	3306634	Accuray Incorporated	Oct 9, 2007
ACCURAY	896634	Accuray Incorporated	Oct 21, 2005
ACCURAY AND DESIGN	3378543	Accuray Incorporated	Feb 5, 2008
MISCELLANEOUS DESIGN (ACCURAY'S DESIGN)	3306635	Accuray Incorporated	Oct 9, 2007
CYBERKNIFE UNIVERSITY	3465111	Accuray Incorporated	Jul 15, 2008
XCHANGE	3631869	Accuray Incorporated	Jun 2, 2009
XCHANGE	907679	Accuray Incorporated	Sep 26, 2006
ACCURAY CAPITAL	3620082	Accuray Incorporated	May 12, 2009
CYBERKNIFE VSI	3904968	Accuray Incorporated	Jan 11, 2011
QUICKPLAN	3829517	Accuray Incorporated	Aug 3, 2010
PLANTOUCH	4,332,520	Accuray Incorporated	May 7, 2013

TRADEMARK/ SERVICE MARK	REGISTRATION NUMBER NO.	REGISTRANT	REGISTRATION DATE
AERO ACCURAY EXCHANGE IN RADIATION ONCOLOGY	4240551	Accuray Incorporated	Nov 13, 2012
ACCURAY (JAPANESE CHARACTERS)	5528381	Accuray Incorporated	Oct 12, 2012
HI ART (2840349)	2840349	Accuray Incorporated	May 11, 2004
HI ART (2840348)	2840348	Accuray Incorporated	May 11, 2004
TOMO	2788956	Accuray Incorporated	Dec 2, 2003
TOMOTHERAPY	4417188	Accuray Incorporated	Oct 15, 2013
TOMOTHERAPY	847352	Accuray Incorporated	Feb 9, 2005
TOMOTHERAPY HI ART	2729995	Accuray Incorporated	Jun 24, 2003
TOMOHD	4418909	Accuray Incorporated	Oct 15, 2013
TOMOHD	4621369	Accuray Incorporated	Oct 14, 2014
STATRT	4808683	Accuray Incorporated	Sep 8, 2015
RADIATE HOPE	4042324	Accuray Incorporated	Oct 18, 2011
RADIATE HOPE AND DESIGN	4042326	Accuray Incorporated	Oct 18, 2011
TARGETING CANCER TOGETHER	4042325	Accuray Incorporated	Oct 18, 2011
PRECISERTX	15103658	Accuray Incorporated	Jun 22, 2016
RADIXACT	5092439	Accuray Incorporated	Nov 29, 2016
PRECISEART	5312248	Accuray Incorporated	October 17, 2017
PRECISERTX	5312249	Accuray Incorporated	October 17, 2017
IDMS	5365442	Accuray Incorporated	December 26, 2017

United States Patent Applications

TITLE	DATE FILED	APPLICATION NUMBER	STATUS	OWNER
ROBOTIC ARM FOR PATIENT POSITIONING ASSEMBLY	Mar 9, 2012	13417003	Pending	Accuray Incorporated
FRAMELESS RADIOSURGERY TREATMENT SYSTEM AND METHOD	Dec 18, 2013	14133111	Allowed	Accuray Incorporated
FRAMELESS RADIOSURGERY TREATMENT SYSTEM AND METHOD	Jan 23, 2017	15412958	Pending	Accuray Incorporated

TITLE	DATE FILED	APPLICATION NUMBER	STATUS	OWNER
TREATMENT PLANNING SOFTWARE AND CORRESPONDING USER INTERFACE	Nov 8, 2011	13291830	Pending	Accuray Incorporated
DYNAMIC TRACKING OF MOVING TARGETS	Mar 10, 2015	14643579	Allowed	Accuray Incorporated
RADIATION TREATMENT PLANNING USING FOUR-DIMENSIONAL IMAGING DATA	Sep 28, 2006	11540327	Pending	Accuray Incorporated
A NON-INVASIVE METHOD FOR USING 2D ANGIOGRAPHIC IMAGES FOR RADIOSURGICAL TARGET DEFINITION	Jul 26, 2016	15219514	Pending	Accuray Incorporated
Automatic correlation modeling of an internal target	Jan 8, 2016	14991428	Pending	Accuray Incorporated
Automatic correlation modeling of an internal target	Jan 8, 2016	14991759	Pending	Accuray Incorporated
FIDUCIAL LOCALIZATION	Jun 18, 2008	12214771	Pending	Accuray Incorporated
Controlling Timing for X-ray Imaging Based on Target Motion	Mar 2, 2015	14634298	Pending	Accuray Incorporated
Rotatable Gantry Radiation Treatment System	Jun 28, 2016	15194978	Allowed	Accuray Incorporated
Gantry Image Guided Radiotherapy System And Related Treatment Delivery Methods	Mar 23, 2016	15078553	Pending	Accuray Incorporated
Medical imaging and image-guided radiation treatment	Jul 29, 2014	14446136	Pending	Accuray Incorporated
Radiation Treatment Delivery System with Outwardly Movable Radiation Treatment Head Extending from Ring Gantry	Mar 19, 2015	14663075	Pending	Accuray Incorporated
TRACKING DURING RADIATION TREATMENT USING ULTRASOUND IMAGING	Jul 13, 2015	14798179	Pending	Accuray Incorporated
TUMOR TRACKING DURING RADIATION TREATMENT USING ULTRASOUND IMAGING	Jul 15, 2015	14800473	Pending	Accuray Incorporated
Radiation Treatment Delivery System With Translatable Ring Gantry	Apr 15, 2011	13088289	Allowed	Accuray Incorporated

TITLE	DATE FILED	APPLICATION NUMBER	STATUS	OWNER
APPARATUS FOR GENERATING MULTI-ENERGY X-RAY IMAGES AND METHODS OF USING THE SAME	Jul 12, 2016	15208049	Pending	Accuray Incorporated
Gantry Image Guided Radiotherapy System And Related Treatment Delivery Methods	Feb 23, 2011	13033584	Pending	Accuray Incorporated
IMAGE-BASED APERTURE VERIFICATION SYSTEM FOR MULTI-LEAF COLLIMATOR	Jan 27, 2016	15008232	Published	Accuray Incorporated
*A METHOD FOR IMAGE-BASED MLC LEAF POSITION TRACKING BY TRANSFORMING CAMERA IMAGES	Jun 12, 2015	62175131	Pending	Accuray Incorporated
VERIFICATION OF LEAF POSITIONS FOR MULTI-LEAF COLLIMATOR USING MULTIPLE VERIFICATION SYSTEMS	Jan 27, 2016	15008239	Published	Accuray Incorporated
*A METHOD FOR IMAGE-BASED MLC LEAF POSITION TRACKING BY TRANSFORMING CAMERA IMAGES	Dec 17, 2015	14973406	Published	Accuray Incorporated
*A METHOD FOR IMAGE-BASED MLC LEAF POSITION TRACKING BY TRANSFORMING CAMERA IMAGES	Jun 12, 2015	62175149	Pending	Accuray Incorporated
Bremsstrahlung Target For Radiation Therapy Applications	Oct 7, 2016	15288867	Pending	Accuray Incorporated
LINEAR ACCELERATOR WITH CERENKOV EMISSION DETECTOR	Mar 1, 2016	15057341	Pending	Accuray Incorporated
MANIPULATION OF A RESPIRATORY MODEL VIA ADJUSTMENT OF PARAMETERS ASSOCIATED WITH MODEL IMAGES	Jan 25, 2016	15005971	Pending	Accuray Incorporated
PRESENTING A SEQUENCE OF IMAGES ASSOCIATED WITH A MOTION MODEL	Jan 25, 2016	15005985	Pending	Accuray Incorporated

TITLE	DATE FILED	APPLICATION NUMBER	STATUS	OWNER
METHOD FOR OPTIMAL ANGLE SELECTION IN ROTATIONAL IMAGING AND TRACKING SYSTEMS	Aug 29, 2016	15250563	Pending	Accuray Incorporated
METHOD FOR OPTIMAL ANGLE SELECTION IN ROTATIONAL IMAGING AND TRACKING SYSTEMS	Aug 29, 2016	15250582	Pending	Accuray Incorporated
ROBOT BEAM PROFILE MEASUREMENT (RBPM) SYSTEM	Mar 1, 2017	15446170	Pending	Accuray Incorporated
Image Registration of Treatment Planning Image, Intrafraction 3D Image, and Intrafraction 2D X-Ray Image	Jan 6, 2017	62443581	Pending	Accuray Incorporated
Method for Interfraction Treatment Target Motion Management using Volumetric Alignment and Planar X-Ray Tracking	Jan 6, 2017	62445583	Pending	Accuray Incorporated
Coordinated Motion of Rotating 2D X-Ray Imager and a Robotic Radiotherapy Device	Jan 6, 2017	62443582	Pending	Accuray Incorporated
SEQUENTIAL MOMOSCOPIC TRACKING	Apr 5, 2017	62482135	Pending	Accuray Incorporated
RADIATION THERAPY IMAGING AND DELIVERY UTILIZING COORDINATED MOTION OF GANTRY AND COUCH	Jul 21, 2006	11459161	Published	TomoTherapy Incorporated
ELECTROMAGNETICALLY ACTUATED MULTI-LEAF COLLIMATOR	Feb 26, 2013	61769549	Pending	Accuray Incorporated & TomoTherapy Incorporated
PITCH OPTIMIZATION FOR HELICAL TOMO THERAPY	Sep 22, 2016	15272760	Pending	Accuray Incorporated - <i>Assignment not yet returned by inventor</i>

PATENT APPLICATION DESCRIPTION	DATE APPLIED	U.S. PATENT APPLICATION NO.	OWNER
TWO-DIMENSIONAL X-RAY IMAGING OF A TARGET VOLUME	Sep 27, 2017	15717231	Accuray Incorporated

PATENT APPLICATION DESCRIPTION	DATE APPLIED	U.S. PATENT APPLICATION NO.	OWNER
TRACKING A TARGET STRUCTURE CONTAINED WITHIN A TARGET VOLUME USING AN X-RAY TOMOSYNTHESIS IMAGING DETECTOR	Sep 27, 2017	15717307	Accuray Incorporated
RADIATION TREATMENT DELIVERY SYSTEM WITH TRANSLATABLE RING GANTRY	Jun 5, 2017	15614039	Accuray Incorporated
METHOD FOR RADIATION BASED TREATMENT BEAM POSITION CALIBRATION AND VERIFICATION	May 26, 2017	15607217	Accuray Incorporated
SEQUENTIAL MOMOSCOPIC TRACKING	Apr 6, 2017	62482604	Accuray Incorporated

PATENT APPLICATION DESCRIPTION	U.S. PATENT APPLICATION NO.	DATE APPLIED	STATUS	OWNER
TREATMENT COUCH WITH LOCALIZATION ARRAY	15875966	January 19, 2018	Pending	Accuray Incorporated
LOCALIZATION ARRAY POSITION IN TREATMENT ROOM COORDINATE SYSTEM	15875975	January 19, 2018	Pending	Accuray Incorporated
GANTRY IMAGE GUIDED RADIOTHERAPY SYSTEM AND RELATED TREATMENT DELIVERY METHODS	15875683	January 19, 2018	Pending	Accuray Incorporated
GANTRY IMAGE GUIDED RADIOTHERAPY SYSTEM AND RELATED TREATMENT DELIVERY METHODS	15927843	March 21, 2018	Pending	Accuray Incorporated
VERIFICATION OF LEAF POSITIONS FOR MULTI-LEAF COLLIMATOR USING MULTIPLE VERIFICATION SYSTEMS	15916068	March 8, 2018	Pending	Accuray Incorporated
LOW-DOSE XRAY IMAGING METHOD FOR TARGET MOTION DETECTION IN QUASI-STATIC TRACKING MODES	15870207	January 12, 2018	Pending	Accuray Incorporated
LIMITING IMAGING RADIATION DOSE AND IMPROVING IMAGE	15922688	March 15, 2018	Pending	Accuray Incorporated

PATENT APPLICATION DESCRIPTION	U.S. PATENT APPLICATION NO.	DATE APPLIED	STATUS	OWNER
QUALITY DURING TREATMENT DELIVERY				
IMAGE REGISTRATION OF TREATMENT PLANNING IMAGE, INTRAFRACTION 3D IMAGE, AND INTRAFRACTION 2D X-RAY IMAGE	15862438	January 4, 2018	Pending	Accuray Incorporated
PARTIAL VIEW INTERFRACTION TREATMENT TARGET MOTION MANAGEMENT USING VOLUMETRIC IMAGING	15862449	January 4, 2018	Pending	Accuray Incorporated
NO-VIEW INTERFRACTION TREATMENT TARGET MOTION MANAGEMENT USING VOLUMETRIC IMAGING	15862461	January 4, 2018	Pending	Accuray Incorporated
COORDINATED MOTION OF A ROTATING 2D X-RAY IMAGER AND A LINEAR ACCELERATOR	15862477	January 4, 2018	Pending	Accuray Incorporated
USING A ROTATING 2D X-RAY IMAGER AS AN IMAGING DEVICE TO PERFORM TARGET TRACKING DURING RADIATION TREATMENT DELIVERY	15862497	January 4, 2018	Pending	Accuray Incorporated
SEQUENTIAL MONOSCOPIC TRACKING	15945580	April 4, 2018	Pending	Accuray Incorporated

United States Patents

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
ROBOTIC ARM FOR PATIENT POSITIONING ASSEMBLY	May 13, 2005	Apr 17, 2012	8160205	Accuray Incorporated
ROBOTIC ARM FOR PATIENT POSITIONING ASSEMBLY	Sep 12, 2012	Jun 10, 2014	8745789	Accuray Incorporated
FOUR-DIMENSIONAL VOLUME OF INTEREST	Jun 2, 2005	Apr 1, 2008	7352370	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
INVERSE PLANNING USING OPTIMIZATION CONSTRAINTS DERIVED FROM IMAGE INTENSITY	Jun 2, 2005	Jul 15, 2008	7400755	Accuray Incorporated
INVERSE PLANNING USING OPTIMIZATION CONSTRAINTS DERIVED FROM IMAGE INTENSITY	Jun 9, 2008	May 4, 2010	7711169	Accuray Incorporated
METHOD FOR AUTOMATIC ANATOMY-SPECIFIC TREATMENT PLANNING PROTOCOLS BASED ON HISTORICAL INTEGRATION OF PREVIOUSLY ACCEPTED PLANS	Jun 27, 2005	Apr 22, 2008	7362848	Accuray Incorporated
METHOD FOR AUTOMATIC ANATOMY-SPECIFIC TREATMENT PLANNING PROTOCOLS BASED ON HISTORICAL INTEGRATION OF PREVIOUSLY ACCEPTED PLANS	Feb 29, 2008	Sep 22, 2009	7593505	Accuray Incorporated
PATIENT TRACKING USING A VIRTUAL IMAGE	Aug 11, 2005	Mar 26, 2013	8406851	Accuray Incorporated
MULTI-PHASE REGISTRATION OF 2-D X-RAY IMAGES TO 3-D VOLUME STUDIES	Nov 16, 2005	Nov 16, 2010	7835500	Accuray Incorporated
RIGID BODY TRACKING FOR RADIOSURGERY	Nov 16, 2005	Mar 23, 2010	7684647	Accuray Incorporated
PRECISION REGISTRATION OF X-RAY IMAGES TO CONE-BEAM CT SCAN	Jun 29, 2005	Nov 9, 2010	7831073	Accuray Incorporated
PRECISION REGISTRATION OF X-RAY IMAGES TO CONE-BEAM CT SCAN	Oct 7, 2010	Nov 6, 2012	8306297	Accuray Incorporated
DYNAMIC TRACKING OF SOFT TISSUE TARGETS WITH ULTRA-SOUND IMAGES, WITHOUT USING FIDUCIAL MARKERS	Jun 29, 2005	May 11, 2010	7713205	Accuray Incorporated
PATIENT POSITIONING ASSEMBLY FOR THERAPEUTIC RADIATION SYSTEM	Oct 17, 2003	Dec 26, 2006	7154991	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
PATIENT POSITIONING ASSEMBLY	Jun 30, 2004	Dec 28, 2010	7860550	Accuray Incorporated
Patient Positioning Assembly	Jun 3, 2010	Jun 4, 2013	8457279	Accuray Incorporated
UNIFIED QUALITY ASSURANCE FOR A RADIATION TREATMENT DELIVERY SERVICE	Nov 14, 2005	Feb 2, 2010	7656998	Accuray Incorporated
IMAGING GEOMETRY	Jun 29, 2005	Nov 27, 2007	7302033	Accuray Incorporated
IMAGING GEOMETRY	Oct 9, 2007	Jan 13, 2009	7477722	Accuray Incorporated
AUTOMATIC GENERATION OF AN ENVELOPE OF CONSTRAINT POINTS FOR INVERSE PLANNING	Sep 6, 2005	Sep 21, 2010	7801349	Accuray Incorporated
DRR GENERATION AND ENHANCEMENT USING A DEDICATED GRAPHICS DEVICE	Jun 23, 2005	Feb 12, 2008	7330578	Accuray Incorporated
ADAPTIVE X-RAY CONTROL	Oct 13, 2008	Jul 9, 2013	8483358	Accuray Incorporated
ADAPTIVE X-RAY CONTROL	Feb 28, 2012	Apr 8, 2014	8693632	Accuray Incorporated
WIZARD AND TEMPLATE FOR TREATMENT PLANNING	Sep 30, 2005	Nov 3, 2009	7611452	Accuray Incorporated
WORKSPACE OPTIMIZATION FOR RADIATION TREATMENT DELIVERY SYSTEM	Sep 28, 2005	Sep 4, 2007	7266176	Accuray Incorporated
TREATMENT TARGET POSITIONING SYSTEM	Jun 30, 2004	Jan 23, 2007	7166852	Accuray Incorporated
ROI SELECTION IN IMAGE REGISTRATION	Jun 30, 2004	Jun 12, 2007	7231076	Accuray Incorporated
RADIOSURGERY X-RAY SYSTEM WITH COLLISION AVOIDANCE SUBSYSTEM	Mar 31, 2004	May 16, 2006	7046765	Accuray Incorporated
RADIOSURGERY X-RAY SYSTEM WITH COLLISION AVOIDANCE SUBSYSTEM	Jan 23, 2006	Sep 5, 2006	7103145	Accuray Incorporated
RADIOSURGERY X-RAY SYSTEM WITH COLLISION AVOIDANCE SUBSYSTEM	Jan 23, 2006	Sep 5, 2006	7103144	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
APPARATUS AND METHOD FOR REGISTERING 2D RADIOGRAPHIC IMAGES WITH IMAGES RECONSTRUCTED FROM 3D SCAN DATA	Aug 29, 2003	Apr 17, 2007	7204640	Accuray Incorporated
DIRECT VOLUME RENDERING OF 4D DEFORMABLE VOLUME IMAGES	Mar 31, 2005	Mar 17, 2009	7505037	Accuray Incorporated
APPARATUS AND METHOD FOR COMPENSATING FOR RESPIRATORY AND PATIENT MOTION DURING TREATMENT	Mar 16, 1999	Nov 7, 2000	6144875	Accuray Incorporated
FRAMELESS RADIOSURGERY TREATMENT SYSTEM AND METHOD	Sep 15, 2000	Aug 17, 2004	6778850	Accuray Incorporated
APPARATUS AND METHOD FOR COMPENSATING FOR RESPIRATORY ANND PATIENT MOTIONS DURING TREATMENT	Sep 8, 2000	Dec 31, 2002	6501981	Accuray Incorporated
APPARATUS AND METHOD FOR COMPENSATING FOR RESPIRATORY AND PATIENT MOTION DURING TREATMENT	Oct 18, 2002	Jan 15, 2008	7318805	Accuray Incorporated
FRAMELESS RADIOSURGERY TREATMENT SYSTEM AND METHOD	Jan 20, 2009	Dec 27, 2011	8086299	Accuray Incorporated
FRAMELESS RADIOSURGERY TREATMENT SYSTEM AND METHOD	Nov 29, 2011	Jan 21, 2014	8634898	Accuray Incorporated
TREATMENT PLANNING SOFTWARE AND CORRESPONDING USER INTERFACE	Sep 30, 2005	Dec 13, 2011	8077936	Accuray Incorporated
INTEGRATED QUALITY ASSURANCE FOR AN IMAGE GUIDED RADIATION TREATMENT DELIVERY SYSTEM	Sep 23, 2005	Apr 8, 2008	7356120	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
INTEGRATED QUALITY ASSURANCE FOR AN IMAGE GUIDED RADIATION TREATMENT DELIVERY SYSTEM	Feb 14, 2008	Oct 20, 2009	7604405	Accuray Incorporated
TREATMENT DELIVERY OPTIMIZATION	Jun 29, 2006	Apr 6, 2010	7693257	Accuray Incorporated
ANCHORED FIDUCIAL APPARATUS AND METHOD	Dec 20, 2001	Oct 9, 2007	7280865	Accuray Incorporated
METHOD AND APPARATUS FOR TRACKING AN INTERNAL TARGET REGION WITHOUT AN IMPLANTED FIDUCIAL	Nov 12, 2002	Aug 21, 2007	7260426	Accuray Incorporated
FIDUCIAL-LESS TRACKING WITH NON-RIGID IMAGE REGISTRATION	Jun 30, 2004	Feb 5, 2008	7327865	Accuray Incorporated
FIDUCIAL -LESS TRACKING WITH NON-RIGID IMAGE REGISTRATION	Dec 5, 2007	Mar 17, 2009	7505617	Accuray Incorporated
FLEXIBLE TREATMENT PLANNING	Sep 29, 2005	Nov 20, 2007	7298819	Accuray Incorporated
APPARATUS AND METHOD FOR RADIOSURGERY	Dec 22, 2003	Jan 30, 2007	7171257	Accuray Incorporated
APPARATUS AND METHOD FOR RADIOSURGERY	Dec 12, 2006	Dec 14, 2010	7853313	Accuray Incorporated
APPARATUS AND METHOD FOR DETERMINING MEASURE OF SIMILARITY BETWEEN IMAGES	Aug 29, 2003	Mar 6, 2007	7187792	Accuray Incorporated
APPARATUS AND METHOD FOR DETERMINING MEASURE OF SIMILARITY BETWEEN IMAGES	Jan 16, 2007	Jan 20, 2009	7480399	Accuray Incorporated
IMAGE GUIDED RADIOSURGERY METHOD AND APPARATUS USING REGISTRATION OF 2D RADIOGRAPHIC IMAGES WITH DIGITALLY RECONSTRUCTED RADIOGRAPHS OF 3D SCAN DATA	Aug 29, 2003	Jul 13, 2010	7756567	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
IMAGE GUIDED RADIOSURGERY METHOD AND APPARATUS USING REGISTRATION OF 2D RADIOGRAPHIC IMAGES WITH DIGITALLY RECONSTRUCTED RADIOGRAPHS OF 3D SCAN DATA	Jun 3, 2010	Oct 2, 2012	8280491	Accuray Incorporated
GENERATION OF RECONSTRUCTED IMAGES	Mar 31, 2004	Jan 1, 2008	7315636	Accuray Incorporated
MOTION FIELD GENERATION FOR NON-RIGID IMAGE REGISTRATION	Jun 30, 2004	Sep 16, 2008	7426318	Accuray Incorporated
DYNAMIC TRACKING OF MOVING TARGETS	Sep 30, 2004	Mar 24, 2015	8989349	Accuray Incorporated
DYNAMIC TRACKING OF MOVING TARGETS	Aug 7, 2007	Oct 28, 2014	8874187	Accuray Incorporated
IMAGE ENHANCEMENT METHOD AND SYSTEM FOR FIDUCIAL-LESS TRACKING OF TREATMENT TARGETS	Dec 15, 2008	Nov 23, 2010	7840093	Accuray Incorporated
NON-LINEAR CORRELATION MODELS FOR INTERNAL TARGET MOVEMENT	Sep 29, 2005	Sep 27, 2011	8027715	Accuray Incorporated
RESPIRATION PHANTOM FOR QUALITY ASSURANCE	Dec 1, 2005	Jul 22, 2008	7402819	Accuray Incorporated
PARALLEL STEREOVISION GEOMETRY IN IMAGE- GUIDED RADIOSURGERY	Jun 28, 2006	Nov 17, 2009	7620144	Accuray Incorporated
CORRELATION MODEL SELECTION FOR INTERNAL TARGET MOVEMENT	Sep 29, 2005	May 15, 2012	8180432	Accuray Incorporated
METHOD AND APPARATUS FOR PATIENT LOADING AND UNLOADING	Jan 24, 2006	Jun 30, 2009	7552490	Accuray Incorporated
METHOD AND APPARATUS FOR PATIENT LOADING AND UNLOADING	May 28, 2009	Mar 26, 2013	8402581	Accuray Incorporated
DELINEATION ON THREE- DIMENSIONAL MEDICAL IMAGE	Mar 30, 2006	Mar 15, 2011	7907772	Accuray Incorporated
ENERGY MONITORING, OPTIMAL DOSE RATE X-RAY TARGET	Apr 25, 2006	Jun 24, 2008	7391849	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
AUTOMATICALLY DETERMINING A BEAM PARAMETER FOR RADIATION TREATMENT PLANNING	Mar 30, 2007	Sep 15, 2009	7590219	Accuray Incorporated
DETERMINING A TARGET-TO-SURFACE DISTANCE AND USING IT FOR REAL TIME ABSORBED DOSE CALCULATION AND COMPENSATION	Aug 25, 2006	Mar 17, 2009	7505559	Accuray Incorporated
TEMPORAL SMOOTHING OF A DEFORMATION FIELD	Dec 13, 2006	Nov 24, 2009	7623679	Accuray Incorporated
CALIBRATING TRACKING SYSTEMS TO REMOVE POSITION-DEPENDENT BIAS	Feb 23, 2007	Apr 9, 2013	8417318	Accuray Incorporated
FIDUCIAL-LESS TRACKING OF A VOLUME OF INTEREST	Nov 3, 2006	Sep 9, 2014	8831706	Accuray Incorporated
COLLIMATOR CHANGER	Nov 3, 2006	Sep 2, 2014	8822934	Accuray Incorporated
TARGET TRACKING USING DIRECT TARGET REGISTRATION	Jan 20, 2011	Jan 3, 2012	8090175	Accuray Incorporated
INTEGRATED VARIABLE-APERTURE COLLIMATOR AND FIXED-APERTURE COLLIMATOR	Jun 29, 2007	Jan 10, 2012	8093572	Accuray Incorporated
PHANTOM INSERT FOR QUALITY ASSURANCE	Mar 29, 2007	Sep 29, 2009	7594753	Accuray Incorporated
"NON-COLLOCATED IMAGING AND TREATMENT IN IMAGE-GUIDED RADIATION TREATMENT SYSTEMS".	Jun 29, 2007	Nov 24, 2009	7623623	Accuray Incorporated
APPARATUS AND METHOD FOR DETERMINING AN OPTIMIZED PATH TRAVERSAL FOR RADIATION TREATMENT DELIVERY SYSTEM	Mar 30, 2007	Sep 11, 2012	8262554	Accuray Incorporated
ROBOTIC ARM FOR A RADIATION TREATMENT SYSTEM	Jun 29, 2007	Feb 18, 2014	8655429	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
A NON-INVASIVE METHOD FOR USING 2D ANGIOGRAPHIC IMAGES FOR RADIOSURGICAL TARGET DEFINITION	Jun 30, 2007	Aug 30, 2016	9427201	Accuray Incorporated
USE OF A SINGLE X-RAY IMAGE IN A STEREO IMAGING PAIR FOR QUALITY ASSURANCE OF TRACKING	Aug 27, 2008	Dec 27, 2011	8086004	Accuray Incorporated
LOWER-TORSO ASSEMBLY OF A TREATMENT COUCH USEABLE IN AN X-RAY ENVIRONMENT	Jun 27, 2007	Jun 22, 2010	7742562	Accuray Incorporated
HIGH QUALITY VOLUME RENDERING WITH GPU USING FLOATING-POINT FRAME BUFFER OBJECT	Jun 25, 2007	Feb 15, 2011	7889902	Accuray Incorporated
CARDIAC TARGET TRACKING	Jan 15, 2009	Oct 23, 2012	8295435	Accuray Incorporated
CONSTRAINED-CURVE CORRELATION MODEL	Jan 10, 2008	Nov 22, 2011	8064642	Accuray Incorporated
Automatic correlation modeling of an internal target	Oct 26, 2007	Feb 2, 2016	9248312	Accuray Incorporated
TARGET TRACKING USING SURFACE SCANNER AND FOUR-DIMENSIONAL DIAGNOSTIC IMAGING DATA	Jan 7, 2008	May 18, 2010	7720196	Accuray Incorporated
TARGET LOCATION BY TRACKING OF IMAGING DEVICE	Oct 11, 2011	Mar 22, 2016	9289268	Accuray Incorporated
SUBTRACTION OF SEGMENTED ANATOMICAL FEATURE FROM AN ACQUIRED IMAGE	Sep 30, 2008	Jun 4, 2013	8457372	Accuray Incorporated
SEVEN OR MORE DEGREES OF FREEDOM ROBOTIC MANIPULATOR HAVING AT LEAST ONE REDUNDANT JOINT	Oct 14, 2008	Feb 28, 2012	8126114	Accuray Incorporated
SEVEN OR MORE DEGREES OF FREEDOM ROBOTIC MANIPULATOR HAVING AT LEAST ONE REDUNDANT JOINT	Feb 27, 2012	Jun 24, 2014	8761337	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
TRAVELING WAVE LINAC FOR INTERLEAVED MULTIPLE ENERGY OPERATION	Oct 16, 2009	Jul 31, 2012	8232748	Accuray Incorporated
TRAVELING WAVE LINAC ACCELERATOR COMPRISING FREQUENCY CONTROLLER FOR INTERLEAVED MULTIPLE-ENERGY OPERATION	Jul 17, 2012	Feb 26, 2013	8384314	Accuray Incorporated
Controlling Timing for X-ray Imaging Based on Target Movement	Sep 11, 2009	Mar 6, 2012	8130907	Accuray Incorporated
Controlling Timing for X-ray Imaging Based on Target Movement	Jan 26, 2012	Mar 3, 2015	8971490	Accuray Incorporated
SEQUENTIAL OPTIMIZATIONS FOR TREATMENT PLANNING	Jun 26, 2009	May 15, 2012	8180020	Accuray Incorporated
SEQUENTIAL OPTIMIZATIONS FOR TREATMENT PLANNING	Apr 13, 2012	Jun 2, 2015	9044602	Accuray Incorporated
Treatment Planning in a Virtual Environment	Apr 15, 2010	Aug 26, 2014	8819591	Accuray Incorporated
A method of interleaving multi x-ray energy operation for the standing wave linear accelerator	Mar 5, 2010	Oct 9, 2012	8284898	Accuray Incorporated
A method of interleaving multi x-ray energy operation for the standing wave linear accelerator	Sep 11, 2012	May 12, 2015	9031200	Accuray Incorporated
INTERLEAVING MULTI-ENERGY X-RAY ENERGY OPERATION OF A STANDING WAVE LINEAR ACCELERATOR USING ELECTRONIC SWITCHES	Jul 8, 2009	Jun 19, 2012	8203289	Accuray Incorporated
INTERLEAVING MULTI-ENERGY X-RAY ENERGY OPERATION OF A STANDING WAVE LINEAR ACCELERATOR USING ELECTRONIC SWITCHES	Jun 18, 2012	Jul 22, 2014	8786217	Accuray Incorporated
Magnetron Powered of Interleaved Multi-energy LInac	Jan 29, 2010	Nov 13, 2012	8311187	Accuray Incorporated
Magnetron Powered of Interleaved Multi-Energy LInac	Nov 12, 2012	Aug 23, 2016	9426876	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
IMAGE ALIGNMENT	Sep 17, 2010	Nov 20, 2012	8315356	Accuray Incorporated
Gantry Image Guided Radiotherapy System And Related Treatment Delivery Methods	Feb 23, 2011	Dec 23, 2014	8917813	Accuray Incorporated
Gantry Image Guided Radiotherapy System And Related Treatment Delivery Methods	Nov 12, 2014	Jul 12, 2016	9387347	Accuray Incorporated
Gantry Image Guided Radiotherapy System And Related Treatment Delivery Methods	Feb 23, 2011	Jan 13, 2015	8934605	Accuray Incorporated
Gantry Image Guided Radiotherapy System And Related Treatment Delivery Methods	Nov 19, 2014	May 3, 2016	9327141	Accuray Incorporated
Medical imaging and image-guided radiation treatment	Jun 11, 2011	Oct 15, 2013	8559596	Accuray Incorporated
Medical imaging and image-guided radiation treatment	Jun 8, 2011	Aug 12, 2014	8804901	Accuray Incorporated
Radiation Treatment Delivery System with Outwardly Movable Radiation Treatment Head Extending from Ring Gantry	Aug 8, 2011	Mar 24, 2015	8989846	Accuray Incorporated
Systems and methods for real-time tumor tracking during radiation treatment using ultrasound imaging	Aug 5, 2011	Aug 18, 2015	9108048	Accuray Incorporated
TRAVELING WAVE LINEAR ACCELERATOR BASED X-RAY SOURCE USING CURRENT TO MODULATE PULSE-TO-PULSE DOSAGE	Dec 22, 2010	Oct 20, 2015	9167681	Accuray Incorporated
TRAVELING WAVE LINEAR ACCELERATOR BASED X-RAY SOURCE USING CURRENT TO MODULATE PULSE-TO-PULSE DOSAGE	May 16, 2012	Sep 16, 2014	8836250	Accuray Incorporated
TRAVELING WAVE LINEAR ACCELERATOR BASED X-RAY SOURCE USING PULSE WIDTH TO MODULATE PULSE-TO-PULSE DOSAGE	Dec 22, 2010	Feb 9, 2016	9258876	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
SYSTEMS AND METHODS FOR CARGO SCANNING AND RADIOTHERAPY USING A TRAVELING WAVE LINEAR ACCELERATOR BASED X-RAY SOURCE	May 16, 2012	Jan 27, 2015	8942351	Accuray Incorporated
METHOD AND APPARATUS FOR SELECTING A TRACKING METHOD TO USE IN IMAGE GUIDED TREATMENT	Oct 25, 2011	Sep 30, 2014	8849633	Accuray Incorporated
Method and apparatus for treating a target's partial motion range	Oct 25, 2011	Sep 2, 2014	8824630	Accuray Incorporated
Automatic Calibration for Device with Controlled Motion Range	Jul 15, 2011	Aug 2, 2016	9406411	Accuray Incorporated
APPARATUS FOR GENERATING MULTI-ENERGY X-RAY IMAGES AND METHODS OF USING THE SAME	Jun 28, 2012	Aug 16, 2016	9415240	Accuray Incorporated
IMAGE REGISTRATION FOR IMAGE-GUIDED SURGERY	Jul 14, 2011	Aug 26, 2014	8818105	Accuray Incorporated
Systems and methods for achromatically bending a beam of charged particles by about ninety degree during radiation treatment	Jul 15, 2011	Mar 26, 2013	8405044	Accuray Incorporated
Ring Gantry Radiation Treatment Delivery System With Dynamically Controllable Inward Extension Of Treatment Head	Apr 15, 2011	Sep 17, 2013	8536547	Accuray Incorporated
SYSTEMS AND METHODS FOR GENERATING X-RAYS AND NEUTRONS	May 8, 2012	Sep 24, 2013	8541756	Accuray Incorporated
SYSTEM AND METHOD FOR FUSION-ALIGNED REPROJECTION OF INCOMPLETE DATA	Mar 9, 2001	May 16, 2006	7046831	TomoTherapy Incorporated
FLUENCE ADJUSTMENT FOR IMPROVED DELIVERY TO VOXELS WITHOUT REOPTIMIZATION	Mar 9, 2001	Dec 9, 2003	6661870	TomoTherapy Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
METHOD FOR RECONSTRUCTION OF LIMITED DATA IMAGES USING FUSION-ALIGNED REPROJECTION AND NORMAL-ERROR-ALIGNED REPROJECTION	Jun 11, 2002	Jul 5, 2005	6915005	TomoTherapy Incorporated
METHOD FOR MODIFICATION OF RADIOTHERAPY TREATMENT DELIVERY	May 16, 2005	Mar 26, 2013	8406844	TomoTherapy Incorporated
METHOD AND APPARATUS FOR MODULATING A RADIATION BEAM	Feb 24, 2006	Jun 7, 2011	7957507	Accuray Incorporated
SYSTEM AND METHOD OF DELIVERING RADIATION THERAPY TO A MOVING REGION OF INTEREST	Jul 21, 2006	Jul 1, 2014	8767917	TomoTherapy Incorporated
SYSTEM AND METHOD OF TREATING A PATIENT WITH RADIATION THERAPY	May 10, 2006	Jul 31, 2012	8232535	TomoTherapy Incorporated
METHOD AND SYSTEM FOR EVALUATING QUALITY ASSURANCE CRITERIA IN DELIVERY OF A TREATMENT PLAN	Jul 21, 2006	Aug 10, 2010	7773788	TomoTherapy Incorporated
METHOD AND SYSTEM FOR EVALUATING QUALITY ASSURANCE CRITERIA IN DELIVERY OF A TREATMENT PLAN	Aug 10, 2010	May 14, 2013	8442287	TomoTherapy Incorporated
METHOD OF AND SYSTEM FOR PREDICTING DOSE DELIVERY	Jul 21, 2006	Dec 29, 2009	7639853	TomoTherapy Incorporated
METHOD OF PLACING CONSTRAINTS ON A DEFORMATION MAP AND SYSTEM FOR IMPLEMENTING SAME	Jul 21, 2006	Jul 28, 2009	7567694	TomoTherapy Incorporated
SYSTEM AND METHOD OF GENERATING CONTOUR STRUCTURES USING A DOSE VOLUME HISTOGRAM	Jul 21, 2006	Oct 27, 2009	7609809	TomoTherapy Incorporated
METHOD AND SYSTEM FOR EVALUATING DELIVERED DOSE	Jul 21, 2006	Jan 5, 2010	7643661	TomoTherapy Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
METHOD AND SYSTEM FOR ADAPTING A RADIATION THERAPY TREATMENT PLAN BASED ON A BIOLOGICAL MODEL	Jul 21, 2006	Aug 11, 2009	7574251	TomoTherapy Incorporated
METHOD AND SYSTEM FOR PROCESSING DATA RELATING TO A RADIATION THERAPY TREATMENT PLAN	Jul 21, 2006	Dec 29, 2009	7639854	TomoTherapy Incorporated
SYSTEM AND METHOD OF DETECTING A BREATHING PHASE OF A PATIENT RECEIVING RADIATION THERAPY	Jul 21, 2006	Jul 24, 2012	8229068	TomoTherapy Incorporated
SYSTEM AND METHOD OF EVALUATING DOSE DELIVERED BY A RADIATION THERAPY SYSTEM	Jul 21, 2006	Nov 23, 2010	7839972	TomoTherapy Incorporated
METHOD AND APPARATUS FOR CALIBRATING A RADIATION THERAPY TREATMENT SYSTEM	Jul 27, 2007	Sep 21, 2010	7801269	TomoTherapy Incorporated
PATIENT SUPPORT DEVICE	Sep 4, 2008	Feb 28, 2012	8122542	TomoTherapy Incorporated
PATIENT SUPPORT DEVICE AND METHOD OF OPERATION	Sep 4, 2008	Aug 31, 2010	7784127	TomoTherapy Incorporated
PATIENT SUPPORT DEVICE AND METHOD OF OPERATION	Aug 31, 2010	Apr 24, 2012	8161585	TomoTherapy Incorporated
METHOD FOR ADAPTING FRACTIONATION OF A RADIATION THERAPY DOSE	Oct 27, 2008	Jul 17, 2012	8222616	TomoTherapy Incorporated
SYSTEM AND METHOD FOR MOTION ADAPTIVE OPTIMIZATION FOR RADIATION THERAPY DELIVERY	Oct 27, 2008	Aug 13, 2013	8509383	TomoTherapy Incorporated
SYSTEM AND METHOD FOR MOTION ADAPTIVE OPTIMIZATION FOR RADIATION THERAPY DELIVERY	Mar 5, 2009	Jun 18, 2013	8467497	TomoTherapy Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
METHOD AND SYSTEM FOR IMPROVED IMAGE SEGMENTATION	Mar 4, 2009	Nov 5, 2013	8577115	TomoTherapy Incorporated
TARGET PEDESTAL ASSEMBLY AND METHOD OF PRESERVING THE TARGET	Feb 11, 2009	Nov 16, 2010	7835502	TomoTherapy Incorporated
SYSTEM AND METHOD OF CONTOURING A TARGET AREA	Aug 28, 2009	Aug 12, 2014	8803910	TomoTherapy Incorporated
SYSTEM AND METHOD OF CALCULATING DOSE UNCERTAINTY	Aug 28, 2009	Jan 19, 2013	8363784	TomoTherapy Incorporated
SYSTEM AND METHOD OF CALCULATING DOSE UNCERTAINTY	Jan 11, 2013	Dec 16, 2014	8913716	TomoTherapy Incorporated
PATIENT SUPPORT DEVICE WITH LOW ATTENUATION PROPERTIES	Sep 29, 2010	Jun 23, 2015	9061141	TomoTherapy Incorporated
NON-VOXEL-BASED BROAD-BEAM (NVBB) ALGORITHM FOR INTENSITY MODULATED RADIATION THERAPY DOSE CALCULATION AND PLAN OPTIMIZATION	Oct 29, 2010	Mar 19, 2013	8401148	TomoTherapy Incorporated
ELECTROMAGNETICALLY ACTUATED MULTI-LEAF COLLIMATOR	Feb 19, 2014	Sep 13, 2016	9443633	Accuray Incorporated & TomoTherapy Incorporated
RADIATION TREATMENT PLANNING AND DELIVERY FOR MOVING TARGETS IN THE HEART	Mar 16, 2009	May 31, 2011	7953204	Accuray Incorporated and Cyberheart, Inc.
TARGET TRACKING USING DIRECT TARGET REGISTRATION	11/2/06	2/22/11	7894649	Accuray Incorporated
FIDUCIAL LOCALIZATION	6/1/08	2/6/18	9883818	Accuray Incorporated
IMAGING METHODS FOR IMAGE-GUIDED RADIATION TREATMENT	7/29/14	2/20/18	9895555	Accuray Incorporated

PATENT DESCRIPTION	DATE FILED	GRANT DATE	PATENT NUMBER	OWNER
TRACKING A TARGET STRUCTURE CONTAINED WITHIN A TARGET VOLUME USING AN X-RAY TOMOSYNTHESIS IMAGING DETECTOR	9/27/17	4/17/18	9943707	Accuray Incorporated
IMAGE-BASED APERTURE VERIFICATION SYSTEM FOR MULTI-LEAF COLLIMATOR	1/27/16	4/17/18	9950193	Accuray Incorporated
VERIFICATION OF LEAF POSITIONS FOR MULTI-LEAF COLLIMATOR USING MULTIPLE VERIFICATION SYSTEMS	1/27/16	4/17/18	9943705	Accuray Incorporated