

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6331072

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
VAREX IMAGING CORPORATION	09/30/2020

RECEIVING PARTY DATA

Name:	WELLS FARGO BANK, NATIONAL ASSOCIATION, AS AGENT
Street Address:	600 SOUTH FOURTH STREET
Internal Address:	6TH FLOOR
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55415-1526

PROPERTY NUMBERS Total: 243

Property Type	Number
Application Number:	09680924
Application Number:	09639185
Application Number:	11904817
Application Number:	13259943
Application Number:	11602764
Application Number:	13550123
Application Number:	11495401
Application Number:	12313752
Application Number:	13492329
Application Number:	11582637
Application Number:	12287792
Application Number:	13366963
Application Number:	10651272
Application Number:	11419793
Application Number:	11683642
Application Number:	12046060
Application Number:	13162300
Application Number:	13323288
Application Number:	12942077

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Property Type	Number
Application Number:	12436049
Application Number:	12479376
Application Number:	13008851
Application Number:	13084902
Application Number:	13251027
Application Number:	13277833
Application Number:	13786272
Application Number:	13490935
Application Number:	13420928
Application Number:	13692344
Application Number:	13328861
Application Number:	13753506
Application Number:	13753504
Application Number:	13831654
Application Number:	13364222
Application Number:	13848412
Application Number:	13651282
Application Number:	13724969
Application Number:	10685787
Application Number:	11283422
Application Number:	11070030
Application Number:	10833696
Application Number:	11876656
Application Number:	11127343
Application Number:	11165972
Application Number:	10869668
Application Number:	10823923
Application Number:	11863185
Application Number:	11944188
Application Number:	11942656
Application Number:	10757779
Application Number:	12191145
Application Number:	12048005
Application Number:	12479322
Application Number:	12416666
Application Number:	12167373
Application Number:	12174106
Application Number:	13169628

Property Type	Number
Application Number:	13676534
Application Number:	13831853
Application Number:	12924533
Application Number:	12238200
Application Number:	12587063
Application Number:	13834925
Application Number:	13589920
Application Number:	12228350
Application Number:	13476477
Application Number:	13465941
Application Number:	12488423
Application Number:	12352974
Application Number:	13134989
Application Number:	11861131
Application Number:	12816216
Application Number:	13352641
Application Number:	11350975
Application Number:	12759621
Application Number:	13369678
Application Number:	11057442
Application Number:	11305962
Application Number:	11025199
Application Number:	11343599
Application Number:	11864603
Application Number:	12239541
Application Number:	12091610
Application Number:	12165279
Application Number:	12847569
Application Number:	12187549
Application Number:	12891458
Application Number:	12890156
Application Number:	12898235
Application Number:	10410819
Application Number:	10688484
Application Number:	11729611
Application Number:	12205768
Application Number:	12619624
Application Number:	13220577

Property Type	Number
Application Number:	09656931
Application Number:	10043393
Application Number:	09657502
Application Number:	09829353
Application Number:	10235457
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Application Number:	13273193

Property Type	Number
Application Number:	12731062
Application Number:	12795894
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Application Number:	13423860
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Application Number:	14660645
Application Number:	14660607
Application Number:	14660584
Application Number:	14176926
Application Number:	14446897
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Application Number:	14601427
Application Number:	15074834
Application Number:	14830435
Application Number:	14708017
Application Number:	14710202
Application Number:	14968078
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Application Number:	15141191
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Application Number:	15007312
Application Number:	15018362

Property Type	Number
Application Number:	15283270
Application Number:	15283082
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Application Number:	15694657
Application Number:	15141240
Application Number:	15267111
Application Number:	16024837
Application Number:	16192917
Application Number:	15418721
Application Number:	15176355
Application Number:	15068355
Application Number:	15719568
Application Number:	15292435
Application Number:	16027200
Application Number:	15465499
Application Number:	15719591
Application Number:	14730052
Application Number:	12850524
Application Number:	13854390
Application Number:	15625932
Application Number:	15823533
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Application Number:	15464142
Application Number:	15560135
Application Number:	15851528
Application Number:	15717298
Application Number:	15717389
Application Number:	15456057
Application Number:	15873187
Application Number:	15822139
Application Number:	15928141
Application Number:	15821633
Application Number:	15985677
Application Number:	15867716
Application Number:	16024841
Application Number:	15872317
Application Number:	16147488
Application Number:	16147509

Property Type	Number
Application Number:	16146867
Application Number:	15989171
Application Number:	16147459
Application Number:	16024747
Application Number:	16147519
Application Number:	16036390
Application Number:	16130999
Application Number:	16146914
Application Number:	16146922
Application Number:	16293543
Application Number:	16293572
Application Number:	16392376
Application Number:	16184025
Application Number:	16281716
Application Number:	16369457
Application Number:	16547517
Application Number:	16420799
Application Number:	16528547
Application Number:	16586739
Application Number:	62896978
Application Number:	16723576
Application Number:	62977033
Application Number:	62941521
Application Number:	62952057
Application Number:	62941335
Application Number:	16730953
Application Number:	16836735
Application Number:	16865283
Application Number:	16852279
Application Number:	16925304
Application Number:	16999684
Application Number:	63060988
Application Number:	17013648
Application Number:	12099184

CORRESPONDENCE DATA

Fax Number: (212)751-4864

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.

PATENT

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Phone: 2129061216
Email: angela.amaru@lw.com
Correspondent Name: LATHAM & WATKINS LLP C/O ANGELA M. AMARU
Address Line 1: 885 THIRD AVENUE
Address Line 4: NEW YORK, NEW YORK 10022

ATTORNEY DOCKET NUMBER: 042525-0236

NAME OF SUBMITTER: ANGELA M. AMARU

SIGNATURE: /s/ Angela M. Amaru

DATE SIGNED: 10/01/2020

Total Attachments: 24

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Patent Security Agreement

Patent Security Agreement, dated as of September 30, 2020 (this “Patent Security Agreement”), by Varex Imaging Corporation (the “Pledgor”), in favor of Wells Fargo Bank, National Association, in its capacity as trustee and collateral agent (in such capacity and together with any successors and assigns in such capacity, the “Agent”) for the benefit of the Notes Secured Parties pursuant to the Indenture (as defined below), as pledgee, assignee and secured party.

WITNESSETH:

WHEREAS, the Pledgor is party to a U.S. Security Agreement, dated as of September 30, 2020 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “U.S. Security Agreement”), in favor of the Agent pursuant to which the Pledgor is required to execute and deliver this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and to induce the Agent, for the benefit of the Notes Secured Parties, to enter into the Indenture, dated as of September 30, 2020 (as the same may be amended, restated, supplemented or otherwise modified from time to time, the “Indenture”) by and among Varex Imaging Corporation, a Delaware corporation as issuer (the “Company”), the Subsidiaries of the Company from time to time party thereto and the Agent for the benefit of the Notes Secured Parties, the Pledgor hereby agrees with the Agent as follows:

SECTION 1. Defined Terms. Unless otherwise defined herein, terms defined in the U.S. Security Agreement and used herein have the meaning given to them in the U.S. Security Agreement.

SECTION 2. Grant of Security Interest in Patent Collateral. As collateral security for the payment and performance in full of all the Secured Obligations, the Pledgor hereby pledges and grants to the Agent for the benefit of the Notes Secured Parties a Lien on all of the right, title and interest of such Pledgor in, to and under the following Collateral, wherever located, and whether now existing or hereafter arising or acquired from time to time (collectively, and, in each case, excluding any Excluded Property, the “Patent Collateral”):

(a) all Patents, including those Registrations and applications of Patents set forth on Schedule I to this Patent Security Agreement; and

(b) all Proceeds of any and all of the foregoing.

SECTION 3. U.S. Security Agreement. The security interest granted pursuant to this Patent Security Agreement is granted concurrently and in conjunction with the security interest granted to the Agent pursuant to the U.S. Security Agreement and Pledgor hereby acknowledges and affirms that the rights and remedies of the Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the U.S. Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to be inconsistent with or in conflict with the U.S. Security Agreement, the provisions of the U.S. Security Agreement shall control.

SECTION 4. Counterparts. This Patent Security Agreement and any amendments, waivers, consents or supplements hereto may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed to be an original, but all such counterparts together shall constitute one and the same agreement. Delivery of any executed counterpart of a signature page of this Patent Security Agreement by facsimile, PDF or other electronic transmission shall be effective as delivery of a manually executed counterpart of this Patent Security Agreement.

SECTION 5. Governing Law. THIS AGREEMENT AND THE OTHER NOTES DOCUMENTS (OTHER THAN AS EXPRESSLY SET FORTH IN ANY SUCH OTHER NOTES DOCUMENTS) SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.

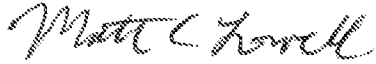
SECTION 6. Intercreditor Agreement. Each Person to whom or for whose benefit a Lien is granted hereunder, by accepting the benefits of the security provided hereby, (i) consents (or is deemed to consent), to the subordination of Liens provided for in the ABL Intercreditor Agreement or any applicable intercreditor agreement, (ii) agrees (or is deemed to agree) that it will be bound by, and will take no actions contrary to, the provisions of the ABL Intercreditor Agreement or any applicable intercreditor agreement, (iii) authorizes (or is deemed to authorize) the Agent on behalf of such Person to enter into, and perform under, the ABL Intercreditor Agreement or any applicable intercreditor agreement and (iv) acknowledges (or is deemed to acknowledge) that a copy of the ABL Intercreditor Agreement or any applicable intercreditor agreement was delivered, or made available, to such Person. Notwithstanding any other provision contained herein, this Agreement, the Liens created hereby and the rights, remedies, duties and obligations provided for herein are subject in all respects to the provisions of the ABL Intercreditor Agreement or any applicable intercreditor agreement. In the event of any conflict or inconsistency between the provisions of this Patent Security Agreement and the ABL Intercreditor or any applicable intercreditor agreement, the provisions of the ABL Intercreditor Agreement or such applicable intercreditor agreement shall control.

[signature page follows]

IN WITNESS WHEREOF, Pledgor has caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

Very truly yours,

VAREX IMAGING CORPORATION

By: 
Name: Matthew C. Lowell
Title: Vice President, Finance, Treasury and
Business Development

[Signature Page to Patent Security Agreement]

WELLS FARGO BANK, NATIONAL ASSOCIATION, as Agent

By: 

Name: Patrick Giordano
Title: Vice President

SCHEDULE I
to
PATENT SECURITY AGREEMENT
PATENTS AND PATENT APPLICATIONS

Patent Application Title	Country	Owner	Application Number	Status
X-RAY TUBE WINDOW AND FRAME	United States of America	Varex Imaging Corporation	09/680924	Granted
HIGH VOLTAGE RECEPTACLE FOR X-RAY TUBES	United States of America	Varex Imaging Corporation	09/639185	Granted
Radiation scanning with photon tagging	United States of America	Varex Imaging Corporation	11/904817	Granted
RISE/FALL TIME CONTROL FOR X-RAY PULSES	United States of America	Varex Imaging Corporation	13/259943	Granted
RADIATION SCANNING AND DISABLING OF HAZARDOUS TARGETS IN CONTAINERS	United States of America	Varex Imaging Corporation	11/602764	Granted
RADIATION SCANNING AND DISABLING OF HAZARDOUS TARGETS IN CONTAINERS	United States of America	Varex Imaging Corporation	13/550123	Granted
GAIN/LAG ARTIFACT CORRECTION ALGORITHM AND SOFTWARE	United States of America	Varex Imaging Corporation	11/495401	Granted
COMPACT, INTERLEAVED RADIATION SOURCES	United States of America	Varex Imaging Corporation	12/313752	Granted
COMPACT, INTERLEAVED RADIATION SOURCES	United States of America	Varex Imaging Corporation	13/492329	Granted
METHOD FOR REDUCING SENSITIVITY MODULATION AND LAG IN ELECTRONIC IMAGERS	United States of America	Varex Imaging Corporation	11/582637	Granted
Charged particle accelerators, radiation sources, system, and methods	United States of America	Varex Imaging Corporation	12/287792	Granted
CHARGED PARTICLE ACCELERATORS, RADIATION SOURCES, SYSTEMS, AND METHODS	United States of America	Varex Imaging Corporation	13/366963	Granted
SYSTEM FOR EXTENDING THE DYNAMIC GAIN OF AN	United States of	Varex Imaging Corporation	10/651272	Granted

Patent Application Title	Country	Owner	Application Number	Status
X-RAY DETECTOR	America			
METHOD AND APPARATUS TO FACILITATE DETERMINATION OF A PARAMETER THAT CORRESPONDS TO A SCANNING GEOMETRY CHARACTERISTIC COMPUTED TOMOGRAPHY FACILITATION METHOD AND APPARATUS	United States of America	Varex Imaging Corporation	11/419793	Granted
METHOD AND APPARATUS TO FACILITATE TRANSFORMING GRAYSCALE LEVEL VALUES	United States of America	Varex Imaging Corporation	12/046060	Granted
ELECTRON EMITTERS FOR X-RAY TUBES	United States of America	Varex Imaging Corporation	13/162300	Granted
FLAT PANEL IMAGERS WITH PIXEL SEPARATION AND METHOD OF MANUFACTURING THE SAME	United States of America	Varex Imaging Corporation	13/323288	Granted
ASYMMETRIC X-RAY TUBE	United States of America	Varex Imaging Corporation	12/942077	Granted
MULTIPLE OUTPUT CAVITIES IN SHEET BEAM KLYSTRON	United States of America	Varex Imaging Corporation	12/436049	Granted
Method and Apparatus to Facilitate Using Multiple Radiation-Detection Views to Differentiate One Material From Another	United States of America	Varex Imaging Corporation	12/479376	Granted
Indirect X-ray Imager Having Semi-Transparent layers	United States of America	Varex Imaging Corporation	13/008851	Granted
CERAMIC METALLIZATION IN AN X-RAY TUBE	United States of America	Varex Imaging Corporation	13/084902	Granted
DUAL-ENERGY X-RAY TUBES	United States of America	Varex Imaging Corporation	13/251027	Granted
METHOD AND APPARATUS PERTAINING TO NON-	United States of	Varex Imaging Corporation	13/277833	Granted

Patent Application Title	Country	Owner	Application Number	Status
INVASIVE IDENTIFICATION OF MATERIALS	America			
CATHODE ASSEMBLY FOR A LONG THROW LENGTH X-RAY TUBE	United States of America	Varex Imaging Corporation	13/786272	Granted
CORRECTION OF SPATIAL ARTIFACTS IN RADIOGRAPHIC IMAGES	United States of America	Varex Imaging Corporation	13/490935	Granted
X-RAY MATRIX IMAGER	United States of America	Varex Imaging Corporation	13/420928	Granted
Charged Particle Accelerator Systems including Beam Dose and Energy Compensation and Methods Therefor	United States of America	Varex Imaging Corporation	13/692344	Granted
X-RAY TUBE APERTURE HAVING EXPANSION JOINTS	United States of America	Varex Imaging Corporation	13/328861	Granted
METHOD AND APPARATUS FOR PREVENTING ACCESS TO ELECTRICAL CONTACTS	United States of America	Varex Imaging Corporation	13/753506	Granted
BATTERY PACK WITH INTEGRAL SEAL MEMBER AND ELECTRONIC DEVICE INCLUDING THE SAME	United States of America	Varex Imaging Corporation	13/753504	Granted
SOFT-START ADAPTER FOR AC HEATED ELECTRON GUN	United States of America	Varex Imaging Corporation	13/831654	Granted
X-RAY TUBE APERTURE BODY WITH SHIELDED VACUUM WALL	United States of America	Varex Imaging Corporation	13/364222	Granted
SYSTEMS AND METHODS FOR HIGH-SPEED RADIOGRAPHY WITH HIGH RESOLUTION IMAGING OF LARGE-AREA FIELDS	United States of America	Varex Imaging Corporation	13/848412	Granted
FINNED ANODE	United States of America	Varex Imaging Corporation	13/651282	Granted
IMAGING ARRAY AND METHOD FOR SUPPORTING AUTOMATIC EXPOSURE CONTROL IN A RADIOGRAPHIC SYSTEM	United States of America	Varex Imaging Corporation	13/724969	Granted

Patent Application Title	Country	Owner	Application Number	Status
DATA SIGNAL AMPLIFIER AND PROCESSOR WITH MULTIPLE SIGNAL GAINS FOR INCREASED DYNAMIC SIGNAL RANGE	United States of America	Varex Imaging Corporation	10/685787	Granted
DATA SIGNAL AMPLIFIER AND PROCESSOR WITH MULTIPLE SIGNAL GAINS FOR INCREASED DYNAMIC SIGNAL RANGE	United States of America	Varex Imaging Corporation	11/283422	Granted
DUAL ENERGY RADIATION SCANNING OF OBJECTS	United States of America	Varex Imaging Corporation	11/070030	Granted
SYSTEMS, METHODS AND DEVICES FOR X-RAY DEVICE FOCAL SPOT CONTROL	United States of America	Varex Imaging Corporation	10/833696	Granted
SYSTEMS, METHODS AND DEVICES FOR X-RAY DEVICE FOCAL SPOT CONTROL	United States of America	Varex Imaging Corporation	11/876656	Granted
ASYMMETRIC FLATTENING FILTER FOR X-RAY DEVICE	United States of America	Varex Imaging Corporation	11/127343	Granted
X-RAY RADIATION SOURCES WITH LOW NEUTRON EMISSIONS FOR RADIATION SCANNING	United States of America	Varex Imaging Corporation	11/165972	Granted
MULTI-GAIN DATA PROCESSING	United States of America	Varex Imaging Corporation	10/869668	Granted
SYNCHRONIZATION OF X-RAY DATA ACQUISITION	United States of America	Varex Imaging Corporation	10/823923	Granted
HIGH DETECTIVE QUANTUM EFFICIENCY X-RAY DETECTORS	United States of America	Varex Imaging Corporation	11/863185	Granted
X-RAY TUBE HAVING A FOCAL SPOT PROXIMATE THE TUBE END	United States of America	Varex Imaging Corporation	11/944188	Granted
FILAMENT ASSEMBLY HAVING REDUCED ELECTRON BEAM TIME CONSTANT	United States of America	Varex Imaging Corporation	11/942656	Granted
TRAVELING X-RAY INSPECTION SYSTEM WITH COLLIMATORS	United States of America	Varex Imaging Corporation	10/757779	Granted

Patent Application Title	Country	Owner	Application Number	Status
POWER VARIATOR	United States of America	Varex Imaging Corporation	12/191145	Granted
RADIATION SYSTEM AND RADIATION BEAM QUALITY DETECTOR AND METHOD	United States of America	Varex Imaging Corporation	12/048005	Granted
Method and Apparatus to Facilitate Using Fused Images to Identify Materials	United States of America	Varex Imaging Corporation	12/479322	Granted
Multi-Pass Edge Detection of Collimator Blades in Digital Radiography Images	United States of America	Varex Imaging Corporation	12/416666	Granted
IMAGING AUTO SHUTTER ROI	United States of America	Varex Imaging Corporation	12/167373	Granted
IMAGE STITCHING AND RELATED METHOD THEREFOR	United States of America	Varex Imaging Corporation	12/174106	Granted
Conversion of Existing Portable or Mobile Analog Radiographic Apparatus for Enabling Digital Radiographic Applications	United States of America	Varex Imaging Corporation	13/169628	Granted
Method and Apparatus Pertaining to Identifying Objects of Interest in a High-Energy Image	United States of America	Varex Imaging Corporation	13/676534	Granted
IMAGING METHOD AND SYSTEM	United States of America	Varex Imaging Corporation	13/831853	Granted
Radiation scanning of objects for contraband	United States of America	Varex Imaging Corporation	12/924533	Granted
THERMIONIC EMITTER DESIGNED TO PROVIDE UNIFORM LOADING AND THERMAL COMPENSATION	United States of America	Varex Imaging Corporation	12/238200	Granted
Dual energy radiation scanning of contents of an object based on contents type	United States of America	Varex Imaging Corporation	12/587063	Granted
Detection of Special Nuclear Material and Other Contraband by Prompt and/or Delayed Signatures from Photofission	United States of America	Varex Imaging Corporation	13/834925	Granted
ON BOARD DIAGNOSIS OF RF SPECTRA IN ACCELERATORS	United States of America	Varex Imaging Corporation	13/589920	Granted

Patent Application Title	Country	Owner	Application Number	Status
INTERLACED MULTI-ENERGY RADIATION SOURCES	United States of America	Varex Imaging Corporation	12/228350	Granted
INTERLACED MULTI-ENERGY RADIATION SOURCES	United States of America	Varex Imaging Corporation	13/476477	Granted
ELECTRON EMITTER AND METHOD OF MAKING SAME	United States of America	Varex Imaging Corporation	13/465941	Granted
X-RAY TUBE BEARING ASSEMBLY	United States of America	Varex Imaging Corporation	12/488423	Granted
APPARATUS AND METHOD TO FACILITATE DYNAMICALLY ADJUSTING RADIATION INTENSITY FOR IMAGING PURPOSES	United States of America	Varex Imaging Corporation	12/352974	Granted
Accelerator system stabilization for charged particle acceleration and radiation beam generation	United States of America	Varex Imaging Corporation	13/134989	Granted
APERTURE SHIELD INCORPORATING REFRACTORY MATERIALS	United States of America	Varex Imaging Corporation	11/861131	Granted
X-RAY TARGET AND METHOD OF MAKING SAME	United States of America	Varex Imaging Corporation	12/816216	Granted
X-RAY TUBE CATHODE WITH MAGNETIC ELECTRON BEAM STEERING	United States of America	Varex Imaging Corporation	13/352641	Granted
Cathode structures for X-ray tubes	United States of America	Varex Imaging Corporation	11/350975	Granted
Cathode structures for X-ray tubes	United States of America	Varex Imaging Corporation	12/759621	Granted
Cathode structures for X-ray tubes	United States of America	Varex Imaging Corporation	13/369678	Granted
MULTIPLE MODE FLAT PANEL X-RAY IMAGING SYSTEM	United States of America	Varex Imaging Corporation	11/057442	Granted
Shielded cathode assembly	United States of America	Varex Imaging Corporation	11/305962	Granted
MODULAR COOLING UNIT FOR X-RAY DEVICE	United States of	Varex Imaging Corporation	11/025199	Granted

Patent Application Title	Country	Owner	Application Number	Status
	America			
CATHODE HEAD HAVING FILAMENT PROTECTION FEATURES	United States of America	Varex Imaging Corporation	11/343599	Granted
LIQUID COOLED WINDOW ASSEMBLY IN AN X-RAY TUBE	United States of America	Varex Imaging Corporation	11/864603	Granted
CATHODE ASSEMBLY WITH INTEGRAL TABS	United States of America	Varex Imaging Corporation	12/239541	Granted
METHOD AND APPARATUS FOR AUTO-CALIBRATION OF A CT SCANNER	United States of America	Varex Imaging Corporation	12/091610	Granted
THERMIONIC EMITTER DESIGNED TO CONTROL ELECTRON BEAM CURRENT PROFILE IN TWO DIMENSIONS	United States of America	Varex Imaging Corporation	12/165279	Granted
RADIATION DETECTOR WITH MULTIPLE OPERATING SCHEMES	United States of America	Varex Imaging Corporation	12/847569	Granted
DATA PROCESSING USING REDUCED ONBOARD MEMORY	United States of America	Varex Imaging Corporation	12/187549	Granted
INTEGRAL LIQUID-COOLANT PASSAGEWAYS IN AN X-RAY TUBE	United States of America	Varex Imaging Corporation	12/891458	Granted
Method and Apparatus Pertaining to Computed Tomography Scanning Using a Calibration Phantom	United States of America	Varex Imaging Corporation	12/890156	Granted
Method and Apparatus Pertaining to Use of a Switched Voltage Clamp with an X-Ray Detector Amplifier	United States of America	Varex Imaging Corporation	12/898235	Granted
METHOD FOR DISPLAYING DIGITAL X-RAY IMAGE DATA AT HIGH RESOLUTION	United States of America	Varex Imaging Corporation	10/410819	Granted
METHOD AND APPARATUS FOR CORRECTING EXCESS SIGNALS IN AN IMAGING SYSTEM	United States of America	Varex Imaging Corporation	10/688484	Granted
METHOD AND APPARATUS FOR CORRECTING EXCESS SIGNALS IN AN IMAGING	United States of America	Varex Imaging Corporation	11/729611	Granted

Patent Application Title	Country	Owner	Application Number	Status
SYSTEM				
METHOD AND APPARATUS FOR CORRECTING EXCESS SIGNALS IN AN IMAGING SYSTEM	United States of America	Varex Imaging Corporation	12/205768	Granted
METHOD AND APPARATUS FOR EXCESS SIGNAL CORRECTION IN AN IMAGER	United States of America	Varex Imaging Corporation	12/619624	Granted
METHOD AND APPARATUS FOR CORRECTING EXCESS SIGNALS IN AN IMAGING SYSTEM	United States of America	Varex Imaging Corporation	13/220577	Granted
COOLING SYSTEM FOR STATIONARY ANODE X-RAY TUBES	United States of America	Varex Imaging Corporation	09/656931	Granted
X-RAY TUBE COOLING SYSTEM	United States of America	Varex Imaging Corporation	10/043393	Granted
LARGE SURFACE AREA X-RAY TUBE WINDOW AND WINDOW COOLING PLENUM	United States of America	Varex Imaging Corporation	09/657502	Granted
DUAL FLUID COOLING SYSTEM FOR HIGH POWER X-RAY TUBES	United States of America	Varex Imaging Corporation	09/829353	Granted
INTEGRATED BEARING ASSEMBLY	United States of America	Varex Imaging Corporation	10/235457	Granted
METHOD AND CIRCUIT FOR REDUCTION OF CORRELATED NOISE	United States of America	Varex Imaging Corporation	09/797076	Granted
HIGH EMISSIVE COATINGS ON X-RAY TUBE COMPONENTS	United States of America	Varex Imaging Corporation	09/672627	Granted
APPARATUS AND METHOD FOR SHAPING HIGH VOLTAGE POTENTIALS ON AN INSULATOR	United States of America	Varex Imaging Corporation	10/378174	Granted
TARGET FOR A STATIONARY ANODE IN AN X-RAY TUBE	United States of America	Varex Imaging Corporation	10/052166	Granted
METHOD AND SYSTEM FOR REDUCING CORRELATED NOISE IN IMAGE DATA	United States of America	Varex Imaging Corporation	09/792418	Granted
HIGH VOLTAGE CABLE AND CLAMP SYSTEM FOR AN X-	United States of	Varex Imaging Corporation	10/036043	Granted

Patent Application Title	Country	Owner	Application Number	Status
RAY TUBE	America			
SLEEVE FOR A STATIONARY ANODE IN AN X-RAY TUBE	United States of America	Varex Imaging Corporation	09/947716	Granted
X-RAY TUBE HOUSING WINDOW	United States of America	Varex Imaging Corporation	10/324784	Granted
PHOTODETECTOR BIASING SCHEME	United States of America	Varex Imaging Corporation	10/639931	Granted
Apparatus to Facilitate Capturing Samples As Pertain to an Object to Be Imaged and Corresponding Method	United States of America	Varex Imaging Corporation	12/544274	Granted
CATHODE ASSEMBLY FOR AN X-RAY TUBE	United States of America	Varex Imaging Corporation	12/847947	Granted
EVACUATED ENCLOSURE WINDOW COOLING	United States of America	Varex Imaging Corporation	12/541802	Granted
SYSTEMS AND METHODS FOR IMAGE ACQUISITION	United States of America	Varex Imaging Corporation	11/439067	Granted
DATA SIGNAL AMPLIFIER WITH AUTOMATICALLY CONTROLLABLE DYNAMIC SIGNAL RANGE	United States of America	Varex Imaging Corporation	09/978727	Granted
X-RAY IMAGING DEVICE	United States of America	Varex Imaging Corporation	10/078056	Granted
X-RAY TUBE ROTOR ASSEMBLY HAVING AUGMENTED HEAT TRANSFER CAPABILITY	United States of America	Varex Imaging Corporation	10/223133	Granted
SHIELD STRUCTURE FOR X-RAY DEVICE	United States of America	Varex Imaging Corporation	10/933852	Granted
LUBRICATED BALL BEARINGS	United States of America	Varex Imaging Corporation	10/150171	Granted
SHIELD STRUCTURE AND FOCAL SPOT CONTROL ASSEMBLY FOR X-RAY DEVICE	United States of America	Varex Imaging Corporation	10/933806	Granted

Patent Application Title	Country	Owner	Application Number	Status
SHIELD STRUCTURE AND FOCAL SPOT CONTROL ASSEMBLY FOR X-RAY DEVICE	United States of America	Varex Imaging Corporation	11/751603	Granted
REMOVABLE APERTURE COOLING STRUCTURE FOR AN X-RAY TUBE	United States of America	Varex Imaging Corporation	11/137064	Granted
ADJUSTABLE X-RAY BEAM COLLIMATOR FOR AN X-RAY TUBE	United States of America	Varex Imaging Corporation	10/165262	Granted
ELECTROSTATIC IMAGER	United States of America	Varex Imaging Corporation	10/325809	Granted
RADIATION SOURCES AND RADIATION SCANNING SYSTEMS WITH IMPROVED UNIFORMITY OF RADIATION INTENSITY	United States of America	Varex Imaging Corporation	10/423770	Granted
X-RAY TUBE HAVING AN INTERNAL RADIATION SHIELD	United States of America	Varex Imaging Corporation	10/409854	Granted
CATHODE HEAD WITH FOCAL SPOT CONTROL	United States of America	Varex Imaging Corporation	10/776540	Granted
MULTI-SLICE FLAT PANEL COMPUTED TOMOGRAPHY	United States of America	Varex Imaging Corporation	10/687552	Granted
VEHICLE MOUNTED INSPECTION SYSTEMS AND METHODS	United States of America	Varex Imaging Corporation	10/455864	Granted
LIQUID-COOLED APERTURE BODY IN AN X-RAY TUBE	United States of America	Varex Imaging Corporation	12/778927	Granted
ELECTRICALLY INSULATING X-RAY SHIELDING DEVICES IN AN X-RAY TUBE	United States of America	Varex Imaging Corporation	12/913432	Granted
Method and Apparatus Pertaining to Rendering an Image to Convey Levels of Confidence with Respect to Materials Identification	United States of America	Varex Imaging Corporation	12/779538	Granted
METHOD AND APPARATUS PERTAINING TO USING IMAGING INFORMATION TO IDENTIFY A SPECTRUM	United States of America	Varex Imaging Corporation	13/630269	Granted

Patent Application Title	Country	Owner	Application Number	Status
PHOTO DETECTOR OF AN X-RAY IMAGER	United States of America	Varex Imaging Corporation	13/273193	Granted
TRANSIENT PIXEL DEFECT DETECTION AND CORRECTION	United States of America	Varex Imaging Corporation	12/731062	Granted
Method and Apparatus Pertaining to Interlaced Amplitude Pulsing Using a Hard-Tube Type Pulse Generator	United States of America	Varex Imaging Corporation	12/795894	Granted
DUAL ANGLE RADIATION SCANNING OF OBJECTS	United States of America	Varex Imaging Corporation	11/485150	Granted
DUAL ANGLE RADIATION SCANNING OF OBJECTS	United States of America	Varex Imaging Corporation	13/423860	Granted
MULTILEVEL COMPUTED TOMOGRAPHY FOR RADIALLY-SHIFTED FOCAL SPOTS	United States of America	Varex Imaging Corporation	14/013995	Granted
RADIATION DETECTOR WITH MULTIPLE OPERATING SCHEMES	United States of America	Varex Imaging Corporation	13/898026	Granted
INTERLACED MULTI-ENERGY BETATRON WITH ADJUSTABLE PULSE REPETITION FREQUENCY	United States of America	Varex Imaging Corporation	13/961831	Granted
FEEDBACK MODULATED RADIATION SCANNING SYSTEMS AND METHODS FOR REDUCED RADIOLOGICAL FOOTPRINT	United States of America	Varex Imaging Corporation	14/081814	Granted
REAL-TIME MOVING COLLIMATORS MADE WITH X-RAY FILTERING MATERIAL	United States of America	Varex Imaging Corporation	14/037763	Granted
X-RAY IMAGER WITH LENS ARRAY AND TRANSPARENT NON-STRUCTURE SCINTILLATOR	United States of America	Varex Imaging Corporation	14/207506	Granted
X-RAY TUBE HAVING MAGNETIC QUADRUPOLES FOR FOCUSING AND STEERING	United States of America	Varex Imaging Corporation	14/660625	Granted
LOW POWER STANDBY MODE IN WIRELESS	United States of	Varex Imaging Corporation	14/229534	Granted

Patent Application Title	Country	Owner	Application Number	Status
IMAGERS	America			
X-RAY TUBE HAVING MAGNETIC QUADRUPOLES FOR FOCUSING AND COLLOCATED STEERING COILS FOR STEERING	United States of America	Varex Imaging Corporation	14/660645	Granted
X-RAY TUBE HAVING PLANAR EMITTER WITH TUNABLE EMISSION CHARACTERISTICS	United States of America	Varex Imaging Corporation	14/660607	Granted
X-RAY TUBE HAVING PLANAR EMITTER AND MAGNETIC FOCUSING AND STEERING COMPONENTS	United States of America	Varex Imaging Corporation	14/660584	Granted
X-RAY HOUSING HAVING INTEGRATED OIL-TO-AIR HEAT EXCHANGER	United States of America	Varex Imaging Corporation	14/176926	Granted
HIGH POWER X-RAY TUBE HOUSING	United States of America	Varex Imaging Corporation	14/446897	Granted
X-RAY IMAGER WITH CMOS SENSOR EMBEDDED IN TFT FLAT PANEL	United States of America	Varex Imaging Corporation	14/229610	Granted
X-RAY ASSEMBLIES AND COATINGS	United States of America	Varex Imaging Corporation	14/559747	Granted
FOCUSING STRUCTURES WITH NON-RECTILINEAR FOCUSING APERTURES	United States of America	Varex Imaging Corporation	14/610981	Granted
SYSTEMS AND METHODS FOR MULTI-VIEW IMAGING AND TOMOGRAPHY	United States of America	Varex Imaging Corporation	14/218699	Granted
FLAT EMITTER COATED WITH LOW WORK FUNCTION MATERIAL	United States of America	Varex Imaging Corporation	14/499045	Granted
X-RAY TUBE HAVING A DUAL GRID AND DUAL FILAMENT CATHODE	United States of America	Varex Imaging Corporation	14/607942	Granted
X-RAY TUBE HAVING MAGNETIC QUADRUPOLES FOR FOCUSING AND MAGNETIC DIPOLES FOR STEERING	United States of America	Varex Imaging Corporation	14/642283	Granted
COMPACT, INTERLEAVED RADIATION SOURCES	United States of	Varex Imaging Corporation	14/330955	Granted

Patent Application Title	Country	Owner	Application Number	Status
	America			
X-RAY MATRIX IMAGER BASED ON A MULTIPLE-GATE-LINE DRIVING SCHEME AND A SHARED-GATE-LINE DRIVING SCHEME	United States of America	Varex Imaging Corporation	14/536704	Granted
APPARATUS AND METHOD FOR RECONSTRUCTING AN IMAGE USING HIGH-ENERGY-BASED DATA	United States of America	Varex Imaging Corporation	14/532741	Granted
VACUUM ASSEMBLIES AND METHODS OF FORMATION	United States of America	Varex Imaging Corporation	14/601427	Granted
X-RAY TUBE WITH STRUCTURALLY SUPPORTED PLANAR EMITTER	United States of America	Varex Imaging Corporation	15/074834	Granted
CHARGED PARTICLE ACCELERATOR SYSTEMS INCLUDING BEAM DOSE AND ENERGY COMPENSATION AND METHODS THEREFOR	United States of America	Varex Imaging Corporation	14/830435	Granted
DIFFERENTIAL REFERENCE SIGNAL DISTRIBUTION METHOD AND SYSTEM	United States of America	Varex Imaging Corporation	14/708017	Granted
CHARGED PARTICLE ACCELERATORS, RADIATION SOURCES, SYSTEMS, AND METHODS	United States of America	Varex Imaging Corporation	14/710202	Granted
ANTIWETTING COATING FOR LIQUID METAL	United States of America	Varex Imaging Corporation	14/968078	Granted
LOW-POWER IMAGER WITH AUTOSENSING FUNCTION	United States of America	Varex Imaging Corporation	14/781314	Granted
ELECTRONIC FOCAL SPOT ALIGNMENT OF AN X-RAY TUBE	United States of America	Varex Imaging Corporation	15/141191	Granted
X-RAY TUBE DEVICES AND METHODS FOR IMAGING SYSTEMS	United States of America	Varex Imaging Corporation	15/271041	Granted
MATRIX TYPE INTEGRATED CIRCUIT WITH FAULT	United States of	Varex Imaging Corporation	15/007312	Granted

Patent Application Title	Country	Owner	Application Number	Status
ISOLATION CAPABILITY	America			
IMAGING DEVICE USING A CLOSE PROXIMITY TAG TO CONFIGURE A WIRELESS LOCAL AREA NETWORK (LAN) TRANSCEIVER IMAGER WITH BUMP DETECTION	United States of America	Varex Imaging Corporation	15/018362	Granted
RADIATION DETECTOR AND SCANNER	United States of America	Varex Imaging Corporation	15/283270	Allowed
DETECTOR ARCHITECTURE USING OFFSET PACKETS	United States of America	Varex Imaging Corporation	15/283082	Granted
MULTI-GRID ELECTRON GUN WITH SINGLE GRID SUPPLY	United States of America	Varex Imaging Corporation	15/876070	Granted
ELECTRONIC CALIBRATION OF FOCAL SPOT POSITION IN AN X-RAY TUBE	United States of America	Varex Imaging Corporation	15/694657	Granted
VACUUM ELECTRON DEVICE DRIFT TUBE	United States of America	Varex Imaging Corporation	15/141240	Granted
ELECTRON GUN ADJUSTMENT IN A VACUUM	United States of America	Varex Imaging Corporation	15/267111	Granted
IMAGING SYSTEM WITH ENERGY SENSING AND METHOD FOR OPERATION	United States of America	Varex Imaging Corporation	16024837	Granted
ROW DRIVER FAULT ISOLATION CIRCUITRY FOR MATRIX TYPE INTEGRATED CIRCUIT	United States of America	Varex Imaging Corporation	16/192917	Published
PIXEL CIRCUIT WITH CONSTANT VOLTAGE BIASED PHOTODIODE AND RELATED IMAGING METHOD	United States of America	Varex Imaging Corporation	15/418721	Granted
			15/176355	Granted

Patent Application Title	Country	Owner	Application Number	Status
HYBRID LINEAR ACCELERATOR WITH A BROAD RANGE OF REGULATED ELECTRON AND X-RAY BEAM PARAMETERS INCLUDES BOTH STANDING WAVE AND TRAVELING WAVE LINEAR SECTIONS FOR PROVIDING A MULTIPLE-ENERGY HIGH-EFFICIENCY ELECTRON BEAM OR X-RAY BEAM USEFUL FOR SECURITY INSPECTION, NON-DESTRUCTIVE TESTING, RADIATION THERAPY, AND OTHER APPLICATIONS	United States of America	Varex Imaging Corporation	15/068355	Granted
HAND-HELD X-RAY SENSOR WITH GESTURE-ACTIVATED WAKE FUNCTION	United States of America	Varex Imaging Corporation	15/719568	Granted
AUTHENTICATION FOR X-RAY IMAGING COMPONENTS	United States of America	Varex Imaging Corporation	15/292435	Granted
ELECTRON GUN THERMAL DISSIPATION IN A VACUUM	United States of America	Varex Imaging Corporation	16/027200	Granted
HEAT SINK FOR X-RAY TUBE ANODE	United States of America	Varex Imaging Corporation	15/465,499	Published
CONFIGURING A PORTABLE X-RAY DETECTOR FOR USE WITH AN IMAGE ACQUISITION WORKSTATION BASED ON COLOR DETECTION	United States of America	Varex Imaging Corporation	15/719591	Granted
SCINTILLATOR SEALING WITH FOIL	United States of America	Varex Imaging Corporation	14/730052	Granted
ADAPTIVE FRAME SCANNING SCHEME FOR PULSED X-RAY IMAGING DETECTORS AND SYSTEMS AND METHODS OF USING THEM IN IMAGING AND DOSIMETRY	United States of America	Varex Imaging Corporation	12/850524	Granted
	United States of America	Varex Imaging Corporation	13/854390	Granted

Patent Application Title	Country	Owner	Application Number	Status
COUNTING AND INTEGRATING PIXELS, DETECTORS, AND METHODS	United States of America	Varex Imaging Corporation	15/625932	Granted
MISALIGNMENT COMPENSATION IN DUAL X-RAY IMAGER	United States of America	Dartmouth College Varex Imaging Corporation	15/823533	Granted
METHOD OF DESIGNING X-RAY TUBE HAVING PLANAR EMITTER WITH TUNABLE EMISSION CHARACTERISTICS	United States of America	Varex Imaging Corporation	15/601728	Granted
MAGNETIC LIFT DEVICE FOR AN X-RAY TUBE	United States of America	Varex Imaging Corporation	15/464142	Published
SCINTILLATOR	United States of America	Varex Imaging Corporation	15/560135	Granted
Detector Architecture using Photodetector Arrays on Thinned Substrates	United States of America	Varex Imaging Corporation	15/851528	Allowed
CATHODE HEAD WITH MULTIPLE FILAMENTS FOR HIGH EMISSION FOCAL SPOT	United States of America	Varex Imaging Corporation	15/717298	Published
ELECTRICAL CONNECTORS FOR MULTIPLE EMITTER CATHODES	United States of America	Varex Imaging Corporation	15/717,389	Published
Hybrid standing wave linear accelerators providing accelerated charged particles or radiation beams	United States of America	Varex Imaging Corporation	15/456,057	Granted
Megavolt and kilovolt x-ray imaging from opposite sides of a detector	United States of America	Varex Imaging Corporation	15/873187	Granted
DYNAMIC ALLOCATION OF MULTIPLE WIRELESS INTERFACES IN AN IMAGING DEVICE	United States of America	Varex Imaging Corporation	15/822139	Granted
HIGH VOLTAGE SEALS AND STRUCTURES HAVING REDUCED ELECTRIC FIELDS	United States of America	Varex Imaging Corporation	15/928141	Published
Aberrant pixel detection and correction	United States of America	Varex Imaging Corporation	15/821633	Granted

Patent Application Title	Country	Owner	Application Number	Status
TRANSMISSION TARGET FOR A HIGH POWER ELECTRON BEAM	United States of America	Varex Imaging Corporation	15/985677	Published
X-RAY IMAGING DETECTOR WITH STUDY DATA FUNCTIONALITY	United States of America	Varex Imaging Corporation	15/867716	Granted
X-RAY TUBE DIAGNOSTIC SYSTEM	United States of America	Varex Imaging Corporation	16024841	Published
LARGE ANGLE ANODE TARGET FOR AN X-RAY TUBE AND ORTHOGONAL CATHODE STRUCTURE	United States of America	Varex Imaging Corporation	15/872317	Granted
CONFIGURABLE LINEAR ACCELERATOR	United States of America	Varex Imaging Corporation	16147488	Granted
CONFIGURABLE LINEAR ACCELERATOR TRIGGER DISTRIBUTION SYSTEM AND METHOD	United States of America	Varex Imaging Corporation	16/147509	Granted
Vacuum penetration for magnetic assist bearing	United States of America	Varex Imaging Corporation	16/146867	Granted
FLEXIBLE DETECTOR FOR X-RAY IMAGING	United States of America	Varex Imaging Corporation	15/989171	Granted
CONFIGURABLE LINEAR ACCELERATOR FREQUENCY CONTROL SYSTEM AND METHOD	United States of America	Varex Imaging Corporation	16147459	Published
DUAL-LAYER DETECTOR FOR SOFT TISSUE MOTION TRACKING	United States of America	Varex Imaging Corporation	16/024747	Published
FREE-FALL AND IMPACT DETECTION SYSTEM FOR ELECTRONIC DEVICES	United States of America	Varex Imaging Corporation	16/147519	Published
X-RAY TUBE HAVING PLANAR EMITTER AND MAGNETIC FOCUSING AND STEERING COMPONENTS	United States of America	Varex Imaging Corporation	16/036,390	Published
X-RAY IMAGING COMPONENT COMMUNICATION SYSTEM AND PROTOCOL	United States of America	Varex Imaging Corporation	16/130,999	Granted
MAGNETIC ASSIST ASSEMBLY HAVING HEAT	United States of	Varex Imaging Corporation	16/146914	Granted

Patent Application Title	Country	Owner	Application Number	Status
DISSIPATION	America			
MAGNETIC ASSIST BEARING	United States of America	Varex Imaging Corporation	16/146922	Granted
Anti-Tamper Circuitry	United States of America	Varex Imaging Corporation	16293543	Published
Detection of Unauthorized Components	United States of America	Varex Imaging Corporation	16293572	Published
THRESHOLD VOLTAGE STABILIZING SYSTEM AND METHOD	United States of America	Varex Imaging Corporation	16/392376	Application
ACTIVE PIXEL IMAGE SENSOR WITH CONSTANT VOLTAGE BIASED PIXEL PHOTODIODES	United States of America	Varex Imaging Corporation	16/184025	Application
Single surface low work function emitter in sealed x-ray tube and various embodiments.	United States of America	Varex Imaging Corporation	16/281716	Allowed
Iterative Region Growing Network for automatic segmentation of the vasculatures in the liver on medical images	United States of America	Varex Imaging Corporation	16/369,457	Application
ENHANCED THERMAL TRANSFER NOZZLE AND SYSTEM	United States of America	Varex Imaging Corporation	16547517	Application
DETECTOR ARCHITECTURE USING PHOTODETECTOR SUBSTRATES AND SEMICONDUCTOR DEVICES	United States of America	Varex Imaging Corporation	16/420799	Published
HYBRID DOSIMETRY AND IMAGING SYSTEM	United States of America	Varex Imaging Corporation	16528547	Published
MULTIPLE HEAD LINEAR ACCELERATOR SYSTEM	United States of America	Varex Imaging Corporation	16586739	Published
Methods for handling truncated data in iterative reconstruction	United States of America	Varex Imaging Corporation	62/896978	Application
ALIGNED GRAIN STRUCTURE TARGETS, SYSTEMS, AND METHODS OF FORMING	United States of America	Varex Imaging Corporation	16/723576	Application

Patent Application Title	Country	Owner	Application Number	Status
Material discriminating X-ray imaging system	United States of America	Varex Imaging Corporation	62977033	Application
System for the retrofit of existing radiographic systems to allow in-bucky inductive charging of wireless digital imagers	United States of America	Varex Imaging Corporation	62/941,521	Application
Semi-automated Radiographic Inspection System for Pipes and Similar Structures using Radioisotopes	United States of America	Varex Imaging Corporation	62/952057	Application
Space efficient battery connector pin system for x-ray detector to allow user replacement of wear components while maintain ingress protection rating	United States of America	Varex Imaging Corporation	62/941335	Application
Removable Battery Connector Adapter	United States of America	Varex Imaging Corporation	16/730953	Application
Material discriminating X-ray imaging system	United States of America	Varex Imaging Corporation	16836735	Application
Imagers and Charging Systems for Radiographic Systems	United States of America	Varex Imaging Corporation	16/865,283	Application
Radiographic Inspection System for Pipes and Other Structures Using Radioisotopes	United States of America	Varex Imaging Corporation	16852279	Application
Triode Electron Gun Driver with Interweave Modes	United States of America	Varex Imaging Corporation	16/925304	Application
Anode shield design for improved spectral purity	United States of America	Varex Imaging Corporation	16/999684	Application
Estimating a Background Radiation Signal from Unknown Sources	United States of America	Varex Imaging Corporation	63/060988	Application
Handling truncated data in iterative reconstruction	United States of America	Varex Imaging Corporation	17/013648	Application
Power Supply for Portable Radiographic Detector	United States of America	Varex Imaging Corporation and Carestream Health, Inc.	12/099184	Granted

Patent Licenses:

Patent Application Title	Country	Application Number	Filed Date	Status	Owner
Ordered Subsets with Momentum for X-ray CT Image Reconstruction	US	14/045816	10/4/2013	Granted	The Regents of the University of Michigan General Electric Company