

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Medi-Physics Inc.	12/19/2011
RECEIVING PARTY DATA	
Name:	Polarean Inc.
Street Address:	PO Box14805
City:	Research Triangle Park
State/Country:	NORTH CAROLINA
Postal Code:	27709-4805
PROPERTY NUMBERS Total: 59	
Property Type	Number
Patent Number:	6079213
Patent Number:	6486666
Patent Number:	6128918
Patent Number:	6199385
Patent Number:	6237363
Patent Number:	6269648
Patent Number:	6286319
Patent Number:	6295834
Patent Number:	6305190
Patent Number:	6346229
Patent Number:	6370415
Patent Number:	6423387
Patent Number:	6427452
Patent Number:	6430939
Patent Number:	6430960

Patent Number:	6484532
Patent Number:	6491895
Patent Number:	6523356
Patent Number:	6526778
Patent Number:	6537825
Patent Number:	6543236
Patent Number:	6566875
Patent Number:	6595211
Patent Number:	6630126
Patent Number:	6648130
Patent Number:	6667008
Patent Number:	6735977
Patent Number:	6807810
Patent Number:	6808699
Patent Number:	6867591
Patent Number:	6995641
Patent Number:	6991777
Patent Number:	7176386
Patent Number:	7287390
Patent Number:	7373782
Patent Number:	7560096
Patent Number:	6696040
Patent Number:	7066319
Patent Number:	7127934
Patent Number:	7179450
Patent Number:	7275540
Patent Number:	7277775
Patent Number:	7275413
Patent Number:	7287391
Patent Number:	7320322
Patent Number:	7357917
Patent Number:	7610914
Patent Number:	7746075
Patent Number:	7850152
Patent Number:	7867477

	8020694
Patent Number:	8035376
Application Number:	10279042
Application Number:	10542293
Application Number:	10547436
Application Number:	10760746
Application Number:	11224204
Application Number:	11856868
Application Number:	12987313

CORRESPONDENCE DATA

Fax Number: (919)854-1401

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: MBSS / Marthenn Salazar

Address Line 1: 4140 Parklake Ave

Address Line 2: Suite 600

Address Line 4: Raleigh, NORTH CAROLINA 27612

ATTORNEY DOCKET NUMBER:

9930-

NAME OF SUBMITTER:

Marthenn Salazar

Total Attachments: 18

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ASSIGNMENT OF PATENTS AGREEMENT

This ASSIGNMENT OF PATENTS AGREEMENT (this "Assignment") is made and entered into as of December 31, 2011, by and between Medi-Physics Inc. d/b/a GE Healthcare, a Delaware corporation, having offices located at 101 Carnegie Center, Princeton, New Jersey 08540 ("Transferor") and Polarean, Inc., a North Carolina corporation having offices located at PO Box 14805, Research Triangle Park, North Carolina 27709-4805 ("Transferee").

WHEREAS, the Parties hereto, together with GEHC Ltd. (as defined in the Transfer Agreement), have entered into that certain Asset Transfer Agreement dated as of December 19, 2011 (the "Transfer Agreement"); and

WHEREAS, pursuant to the Transfer Agreement, Transferor has agreed to transfer and assign, and Transferee has agreed to assume, the Assigned Patents (as defined in the Transfer Agreement), a list of which is attached as Exhibit 1 on the terms and subject to the conditions and exceptions set forth in the Transfer Agreement; and

WHEREAS, pursuant to the Transfer Agreement, Transferee has agreed to assume the Assumed Liabilities (as defined in the Transfer Agreement) in connection with Transferor's acquisition of the Assigned Patents.

NOW, THEREFORE, for and in consideration of the mutual covenants contained herein and other good and valuable consideration, the receipt, adequacy and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

1. Capitalized Terms. Capitalized terms used but not otherwise defined herein shall have the meanings set forth in the Transfer Agreement.
2. Assignment. On the terms and conditions set forth in the Transfer Agreement, Transferor hereby transfers and assigns to Transferee all of Transferor's right, title and interest in, to and under the Assigned Patents, and Transferee hereby accepts such transfer and assignment from Transferor.
3. Assumption. On the terms and conditions set forth in the Transfer Agreement, Transferee hereby assumes and will pay, perform or otherwise discharge the Assumed Liabilities relating to the Assigned Patents.
4. Patent Prosecution and Maintenance Obligation. On and after the Closing Date, Transferee shall have full responsibility at its sole expense for, and shall control, the prosecution and maintenance of all Assigned Patents in those jurisdictions where patents applications have been filed and/or patents have been issued.

5. Terms of the Transfer Agreement. The terms of the Transfer Agreement are incorporated herein by reference. The parties acknowledge and agree that the representations, warranties, covenants, agreements and indemnities contained in the Transfer Agreement shall not be limited or expanded hereby, and shall not be superseded hereby, but shall remain in full force and effect to the full extent provided therein. In the event of any conflict or inconsistency between the terms of the Transfer Agreement and the terms hereof, the terms of the Transfer Agreement shall govern.

6. Further Assurances. Each of the parties hereto covenants and agrees that it will execute, deliver and acknowledge (or cause to be executed, delivered and acknowledged), from time to time at the request of the other and without further consideration, all such further instruments of conveyance, transfer, assignment and further assurances, and perform or cause to be performed all such further acts as may be necessary or appropriate to confirm or more effectively carry out the provisions and intent of this Assignment.

7. Parties in Interest. This Assignment is executed by and shall be binding upon each of the parties hereto, and their respective successors, assigns and personal representatives.

8. Counterparts. This Assignment may be executed in any number of counterparts and by facsimile signature, each of which will be deemed an original, but all of which together will constitute one and the same instrument.

9. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the State of New York excluding any choice of laws rules that may direct the application of the law of another state.

[Signatures Appear on Following Page]

IN WITNESS WHEREOF, the parties hereto have executed this Assignment of Patents Agreement as of date first set forth above.

MEDI-PHYSICS INC.
D/B/A GE HEALTHCARE

By: _____

Name: Vito Pulito

Title: Vice President

POLAREAN, INC.

By: _____

Name: Bastiaan Driehuys, Ph.D.

Title: Chairman of the Board and Chief
Technology Officer

IN WITNESS WHEREOF, the parties hereto have executed this Assignment of Patents Agreement as of date first set forth above.


MEDI-PHYSICS INC.
D/B/A GE HEALTHCARE

By: _____

Name: Vito Pulito

Title: Vice President

POLAREAN, INC.

By: _____

Name: Bastiaan Driehuys, Ph.D.

Title: Chairman of the Board and Chief
Technology Officer

EXHIBIT 1

LIST OF ASSIGNED PATENTS

Title	Country	Status	Application / Patent #	Part A	Part B
DIAGNOSTIC PROCEDURES USING DIRECT INJECTION OF GASEOUS HYPERPOLARIZED 129 XE AND ASSOCIATED SYSTEMS AND PRODUCTS	European Patent Convention	Published	Application # 01926356.5		X
	United States of America	Granted	6630126		X
	United States of America	Granted	7560096		X
DIAGNOSTIC PROCEDURES USING 129XE SPECTROSCOPY UTILIZING CHARACTERISTIC CHEMICAL SHIFT TO DETECT PATHOLOGY IN VIVO	European Patent Convention	Published	Application # 01963722.2		X
	United States of America	Granted	6696040		X
	United States of America	Granted	7357917		X
METHODS AND DEVICES FOR MOISTURIZING HYPERPOLARIZED NOBLE GASES AND ASSOCIATED MOISTURIZED PHARMACEUTICAL GRADE INHALABLE HYPERPOLARIZED GAS PRODUCTS	European Patent Convention	Published	Application # 02728940.4		X
	United States of America	Granted	7850152		X
MAGNETIC HOLDING FIELD FOR CRYOGENICALLY ACCUMULATED POLARIZED 129 XENON	Canada	Granted	2466991	X	
	United States of America	Granted	6735977	X	
METHODS FOR IN VIVO EVALUATION OF PHYSIOLOGICAL CONDITIONS AND/OR ORGAN OR SYSTEM FUNCTION INCLUDING METHODS TO EVALUATE CARDIO-PULMONARY DISORDERS SUCH AS CHRONIC HEART FAILURE USING POLARIZED 129XE	Australia	Granted	2.002E+09		X
	Australia	Pending	Application # 2009201836		X
	Canada	Pending	Application # 2458901		X

Title	Country	Status	Application / Patent #	Part A	Part B
METHODS FOR IN VIVO EVALUATION OF RESPIRATORY OR CARDIOPULMONARY DISORDERS SUCH AS CHRONIC HEART FAILURE USING POLARIZED 129 XE	Japan	Granted	4283675		X
	United States of America	Granted	6991777		X
	United States of America	Published	Application # 11/224204		X
	Australia	Granted	2002329991		X
	Belgium	Granted	1430322		X
	Canada	Pending	Application # 2457543		X
	Denmark	Granted	1430322		X
	European Patent Convention	Granted	1430322		X
	France	Granted	1430322		X
	Germany	Granted	60232734.2-08		X
	Italy	Granted	1430322		X
	Japan	Granted	4283673		X
	Japan	Pending	Application # 2009-013031		X
	Liechtenstein	Granted	1430322		X
	Netherlands	Granted	1430322		X
	Spain	Granted	1430322		X

Title	Country	Status	Application / Patent #	Part A	Part B
	Sweden	Granted	1430322		X
	Switzerland	Granted	1430322		X
	United Kingdom	Granted	1430322		X
METHODS FOR IN VIVO EVALUATION OF RESPIRATORY OR CARDIOPULMONARY DISORDERS SUCH AS CHRONIC HEART FAILURE USING POLARIZED ¹²⁹ XE	Australia	Pending	Application # 2004209434		X
	Australia	Pending	Application # 2010202158		X
	China (People's Republic)	Granted	ZL2004800032 23.8		X
	China (People's Republic)	Published	Application # 201010165265 .9		X
	United States of America	Granted	7179450		X
	United States of America	Granted	7867477		X
	United States of America	Published	Application # 12/987313		X
	United States of America	Published	Application # 10/279042		X
STORAGE AND DELIVERY CONTAINERS FOR IMAGING AND SPECTROSCOPIC AGENTS	United States of America	Published	Application # 10/279042		X
AUTOMATED MODULAR HYPERPOLARIZERS AND RELATED DEVICES AND METHODS	Canada	Pending	Application # 2463739		X
	European Patent Convention	Published	Application # 02782219.6		X
	United States of America	Granted	7287391	X	
	United States of America	Published	11/856868	X	

Title	Country	Status	Application / Patent #	Part A	Part B
OPTICAL PUMPING MODULES, POLARIZED GAS BLENDING AND DISPENSING SYSTEMS, AND AUTOMATED POLARIZED GAS DISTRIBUTION SYSTEMS AND RELATED DEVICES AND METHODS	United States of America	Granted	7287390	X	
	United States of America	Granted	8035376	X	
NMR TRANSFER STANDARD	Australia	Granted	2.003E+09	X	
	China (People's Republic)	Granted	ZL2003801065 65.8		X
	European Patent Convention	Published	Application # 03814245.1		X
	India	Granted	222970		X
	Japan	Granted	4570034		X
	New Zealand	Granted	540078		X
	South Africa	Granted	2005/05402		X
	United States of America	Granted	6867581	X	
METHODS, SYSTEMS, CIRCUITS, AND COMPUTER PROGRAM PRODUCTS FOR DETERMINING POLARIZATION OF A GAS	Canada	Pending	Application # 2485200		X
	European Patent Convention	Published	Application # 03753064.9		X
	United States of America	Granted	7127934	X	
	United States of America	Granted	7275413	X	
	United States of America	Granted	7746075	X	

Title	Country	Status	Application / Patent #	Part A	Part B
AUTOMATED DYNAMIC PRESSURE-RESPONSIVE DISPENSING SYSTEMS, AND ASSOCIATED METHODS AND COMPUTER PROGRAM PRODUCTS	Canada	Pending	Application # 2493109		X
	European Patent Convention	Granted	1534990		X
	France	Granted	1534990		X
	Germany	Granted	60309334		X
	Italy	Granted	1534990		X
	Spain	Granted	1534990		X
	United Kingdom	Granted	1534990		X
	United States of America	Granted	7277775	X	
RECIRCULATING HYPERPOLARIZED GAS CELLS AND ASSOCIATED METHODS OF PRODUCING OPTICALLY PUMPED HYPERPOLARIZED GAS	European Patent Convention	Published	Application # 4703580.3		X
	Japan	Granted	4771934		X
	United States of America	Published	Application # 10/760746		X
MULTI-CELL POLARIZER SYSTEMS WITH REPOLARIZING CAPABILITY AND ASSOCIATED METHODS AND DEVICES	European Patent Convention	Published	Application # 04703591.0		X
	Japan	Granted	4589299		X
	United States of America	Published	Application # 10/542293		X
MRI/NMR COMPATIBLE HYPERPOLARIZED GAS DELIVERY VALVES FOR VENTILATORS AND ASSOCIATED GAS DE-	Denmark	Granted	1599740		X

Title	Country	Status	Application / Patent #	Part A	Part B
LIVERY METHODS	European Patent Convention	Granted	1599740		X
	France	Granted	1599740		X
	Germany	Granted	6.02E+11		X
	Spain	Granted	1599740		X
	Sweden	Granted	1599740		X
	Switzerland	Granted	1599740		X
	United Kingdom	Granted	1599740		X
	United States of America	Published	Application # 10/547436		X
VALVE FOR CONDUCTING HYPERPOLARIZED GAS	European Patent Convention	Granted	1620668		X
	France	Granted	1620668		X
	Germany	Granted	1620668		X
	Italy	Granted	1620668		X
	Spain	Granted	1620668		X
	United Kingdom	Granted	1620668		X
	United States of America	Granted	7320322		X
MRI/NMR-COMPATIBLE, TIDAL VOLUME CONTROL AND MEASUREMENT SYSTEMS, METHODS, AND DEVICES FOR	European Patent Con-	Published	Application # 04760304.8		X

Title	Country	Status	Application / Patent #	Part A	Part B
RESPIRATORY AND HYPERPOLARIZED GAS DELIVER	vention				
	Japan	Granted	4593562		X
	United States of America	Granted	7275540		X
	United States of America	Granted	7610914		X
PROCESS AND DEVICE TO SOLIDIFY AND THAW A POLARIZED GAS COMPRISING XENON	Australia	Granted	757090		X
	Australia	Granted	757090		X
	Austria	Granted	E238540		X
	Austria	Granted	1279912		X
	Belgium	Granted	1051602		X
	Belgium	Granted	1279912		X
	Canada	Granted	2313480		X
	Canada	Pending	Application # 2602360		X
	Denmark	Granted	1051602		X
	Denmark	Granted	1279912		X
	Finland	Granted	1051602		X
	Finland	Granted	1279912		X

Title	Country	Status	Application / Patent #	Part A	Part B
	France	Granted	1051602		X
	Germany	Granted	69813905		X
	Germany	Granted	1279912		X
	Ireland	Granted	1051602		X
	Ireland	Granted	1279912		X
	Italy	Granted	1051602		X
	Italy	Granted	1279912		X
	Japan	Pending	Application # 2000/526791		X
	Japan	Pending	Application # 2009-215218		X
	Liechtenstein	Granted	1051602		X
	Liechtenstein	Granted	1279912		X
	Netherlands	Granted	1051602		X
	Netherlands	Granted	1279912		X
	Portugal	Granted	1051602		X
	Spain	Granted	1051602		X
	Spain	Granted	1279912		X

Title	Country	Status	Application / Patent #	Part A	Part B
	Sweden	Granted	1051602		X
	Sweden	Granted	1279912		X
	Switzerland	Granted	1051602		X
	Switzerland	Granted	1279912		X
	United Kingdom	Granted	1051602		X
	United Kingdom	Granted	1279912		X
	United States of America	Granted	6079213	X	
	United States of America	Granted	6199385	X	
	United States of America	Granted	6305190	X	
	United States of America	Granted	7373782	X	
USE OF A HYPERPOLARIZED GAS FOR MRI DETECTION OF REGIONAL VARIATIONS IN OXYGEN UPTAKE FROM THE LUNGS	United States of America	Granted	6370415		X
	United States of America	Granted	6595211		X
MR METHODS FOR IMAGING PULMONARY AND CARDIAC VASCULATURE AND EVALUATING BLOOD FLOW USING DISSOLVED POLARIZED 129 XENON	Canada	Granted	2324269		X
	European Patent Convention	Published	Application # 99918429.4		X
	United States of America	Granted	6346229		X
	United States of America	Granted	6491895		X

Title	Country	Status	Application / Patent #	Part A	Part B
RESILIENT CONTAINERS FOR HYPER-POLARIZED GASES	United States of America	Granted	6808699		X
	Australia	Granted	745398		X
	Canada	Granted	2335467	X	
	Canada	Pending	Application # 2637700	X	
	Germany	Granted	2040063		X
	France	Granted	2040063		X
	United Kingdom	Granted	2040063		X
	United States of America	Granted	6128918	X	
	United States of America	Granted	6423387	X	
	United States of America	Granted	6526778	X	
HYPERPOLARIZED NOBLE GAS EXTRACTION METHODS MASKING METHODS AND ASSOCIATED TRANSPORT CONTAINERS	Belgium	Granted	1123117		X
	Belgium	Granted	1303313		X
	Canada	Granted	2344671		X
	Denmark	Granted	1123117		X
	Denmark	Granted	1303313		X
	France	Granted	1123117		X

Title	Country	Status	Application / Patent #	Part A	Part B
	France	Granted	1303313		X
	Germany	Granted	1123117		X
	Germany	Granted	60111944		X
	Italy	Granted	1123117		X
	Italy	Granted	1303313		X
	Netherlands	Granted	1123117		X
	Netherlands	Granted	1303313		X
	Spain	Granted	1123117		X
	Spain	Granted	1303313		X
	Sweden	Granted	1123117		X
	Sweden	Granted	1303313		X
	United Kingdom	Granted	1123117		X
	United Kingdom	Granted	1303313		X
	United States of America	Granted	6237363	X	
	United States of America	Granted	6286319	X	
	United States of America	Granted	6537825	X	

Title	Country	Status	Application / Patent #	Part A	Part B
	United States of America	Granted	6427452	X	
	United States of America	Granted	6523356	X	
	United States of America	Granted	6543236	X	
	United States of America	Granted	6667008	X	
HYPERPOLARIZED GAS TRANSPORT DEVICE AND ASSOCIATED TRANSPORT METHOD	Canada	Granted	2336191		X
	United States of America	Granted	6269648		X
	United States of America	Granted	6430939		X
	United States of America	Granted	6807810		X
	United States of America	Granted	6995641		X
PORTABLE HYPERPOLARIZED GAS MONITORING SYSTEM, COMPUTER PROGRAM PRODUCTS, AND RELATED PRODUCTS	United States of America	Granted	6566875		X
NMR POLARIZATION MONITORING COILS, HYPERPOLARIZERS WITH SAME, AND METHODS FOR DETERMINING THE POLARIZATION LEVEL OF ACCUMULATED HYPERPOLARIZED NOBLE GASES DURING PRODUCTION	France	Granted	1188064		X
	Germany	Granted	60029959		X
	Italy	Granted	1188064		X
	Spain	Granted	1188064		X
	United Kingdom	Granted	1188064		X
	United States of America	Granted	6295834	X	

Title	Country	Status	Application / Patent #	Part A	Part B
	United States of America	Granted	6484532	X	
	United States of America	Granted	6430960	X	
HYPERPOLARIZED GAS TRANSPORT AND STORAGE DEVICES AND ASSOCIATED TRANSPORT AND STORAGE METHODS USING PERMANENT MAGNETS	Austria	Granted	1208326		X
	Belgium	Granted	1208326		X
	Canada	Granted	2380881		X
	Denmark	Granted	1208326		X
	France	Granted	1208326		X
	Germany	Granted	60023316		X
	Italy	Granted	1208326		X
	Liechtenstein	Granted	1208326		X
	Netherlands	Granted	1208326		X
	Spain	Granted	1208326		X
	Sweden	Granted	1208326		X
	Switzerland	Granted	1208326		X
	United Kingdom	Granted	1208326		X
	United States of America	Granted	6648130	X	

Title	Country	Status	Application / Patent #	Part A	Part B
	United States of America	Granted	7066319	X	
	United States of America	Granted	8020694	X	
POLARISATION DETERMINATION METHOD AND APPARATUS	Germany	Granted	19742543		X
	United States of America	Granted	6486666		X
MAGNETICALLY SHIELDED CONTAINER	Germany	Granted	19742549		X
	United States of America	Granted	7176386		X