PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4463932

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
HUDSON BAY MASTER FUND LTD	06/08/2017

RECEIVING PARTY DATA

Name:	INTERPACE DIAGNOSTICS GROUP, INC.	
Street Address:	300 INTERPACE PARKWAY	
Internal Address:	MORRIS CORPORATE CENTER 1, BUILDING A	
City:	PARSIPPANY	
State/Country:	NEW JERSEY	
Postal Code:	07054	
Name:	INTERPACE BIOPHARMA, LLC	
Street Address:	300 INTERPACE PARKWAY	
Internal Address:	MORRIS CORPORATE CENTER 1, BUILDING A	
City:	PARSIPPANY	
State/Country:	NEW JERSEY	
Postal Code:	07054	
Name:	INTERPACE DIAGNOSTICS, LLC	
Street Address:	300 INTERPACE PARKWAY	
Internal Address:	MORRIS CORPORATE CENTER 1, BUILDING A	
City:	PARSIPPANY	
State/Country:	NEW JERSEY	
Postal Code:	07054	
Name:	INTERPACE DIAGNOSTICS LAB, INC.	
Street Address:	300 INTERPACE PARKWAY	
Internal Address:	MORRIS CORPORATE CENTER 1, BUILDING A	
City:	PARSIPPANY	
State/Country:	NEW JERSEY	
Postal Code:	07054	
Name:	INTERPACE DIAGNOSTICS CORPORATION	
Street Address:	300 INTERPACE PARKWAY	
Internal Address:	MORRIS CORPORATE CENTER 1, BUILDING A	
City:	PARSIPPANY	
		PATENT

PATENT

504417232 REEL: 042840 FRAME: 0860

State/Country:	NEW JERSEY
Postal Code:	07054

PROPERTY NUMBERS Total: 65

Property Type	Number
Application Number:	60826173
Application Number:	11857948
Application Number:	61414778
Application Number:	13299226
Application Number:	61534332
Application Number:	61536486
Application Number:	13615066
Application Number:	15491399
Application Number:	61552451
Application Number:	61552762
Application Number:	13662450
Application Number:	61709411
Application Number:	61716396
Application Number:	13801737
Application Number:	13436259
Application Number:	13266434
Application Number:	13266429
Application Number:	62267619
Application Number:	15378370
PCT Number:	US2007078936
PCT Number:	US2011061237
PCT Number:	US2012062330
PCT Number:	US2013030990
PCT Number:	US2013034670
Application Number:	60620926
Application Number:	11255978
Application Number:	60631240
Application Number:	11256150
Application Number:	60644568
Application Number:	11256152
Application Number:	60679968
Application Number:	11255980
Application Number:	60679969
Application Number:	14305727

PATENT

REEL: 042840 FRAME: 0861

Property Type	Number
PCT Number:	US2005038315
PCT Number:	US2005038313
PCT Number:	US2005038311
PCT Number:	US2005038312
Patent Number:	6340563
Patent Number:	7014999
Application Number:	11289624
Application Number:	08311553
PCT Number:	US1995012372
Application Number:	61240919
Application Number:	61294355
Application Number:	61429908
Application Number:	61292561
Application Number:	61429900
Application Number:	61297136
Application Number:	61425109
Application Number:	13331966
Application Number:	61443014
Application Number:	61549684
Application Number:	61565879
Application Number:	13692727
Application Number:	13954247
PCT Number:	US2014046702
Application Number:	61612061
Application Number:	61640527
Application Number:	61661256
Application Number:	61731725
Patent Number:	9341638
Application Number:	15147960
Application Number:	61824623
Application Number:	61840963

CORRESPONDENCE DATA

Fax Number: (610)640-7835

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.

Phone: 610-640-7820

Email:bwdocket@pepperlaw.comCorrespondent Name:DANIEL M. SCOLNICKAddress Line 1:PEPPER HAMILTON LLP

PATENT

REEL: 042840 FRAME: 0862

Address Line 2: 899 CASSATT ROAD

Address Line 4: BERWYN, PENNSYLVANIA 19312

ATTORNEY DOCKET NUMBER:	136054.44-01
NAME OF SUBMITTER:	MELISSA SEEBARAN
SIGNATURE:	/Melissa Seebaran/
DATE SIGNED:	06/16/2017

Total Attachments: 14

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TERMINATION AND RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY (TRADEMARKS AND PATENTS)

This Termination and Release of Security Interest in Intellectual Property (this "Release") is made this 8th day of June, 2017, by Hudson Bay Master Fund Ltd ("Secured Party"), in favor of PDI, Inc. (n/k/a Interpace Diagnostics Group, Inc.), a Delaware corporation ("IDG"), Group DCA, LLC, a Delaware limited liability company, Interpace Biopharma, LLC, a Delaware limited liability company ("ID LLC"), Interpace Diagnostics Lab, Inc. (f/k/a JS Genetics, Inc.), a Delaware corporation and Redpath Acquisition Sub, Inc. (n/k/a Interpace Diagnostics Corporation, its successor-in-interest by merger), a Delaware corporation ("IDC") (collectively, the "Grantors").

WHEREAS, pursuant to the terms and conditions of that Guarantee and Collateral Agreement by Grantor in favor of REDPATH EQUITYHOLDER REPRESENTATIVE, LLC ("Redpath"), dated as of October 31, 2014 (the "GCA"), Grantors granted to Redpath a continuing security interest in all of Grantors' right, title and interest in, to and under the Collateral, including but not limited to, the Intellectual Property (capitalized terms not otherwise defined herein shall have the meanings given to them in the GCA);

WHEREAS, Grantors entered into the GCA in favor of Redpath pursuant to the terms and conditions of the Loan Documents, including but not limited to, that certain Non-Negotiable Subordinated Secured Promissory Note dated October 31, 2014 issued by IDG and ID, LLC, as borrowers, to Redpath;

WHEREAS, the GCA was recorded with the United States Patent and Trademark Office ("<u>USPTO</u>") on September 23, 2016 at Reel/Frame 005883/0319 with respect to trademark collateral;

WHEREAS, the GCA was recorded with the USPTO on September 23, 2016 at Reel/Frame 040125/0251 with respect to patent collateral;

WHEREAS, the security interests in the assets of the Grantors under the GCA, among other things, were assigned by Redpath to Secured Party pursuant to that certain Securities Purchase Agreement, dated as of March 22, 2017, by and between Redpath and Secured Party and, accordingly, IDG, IDC and ID LLC entered into that certain Amended and Restated Intellectual Property Security Agreement, dated as of March 23, 2017, in favor of the Secured Party (the "Amended and Restated Security Agreement");

WHEREAS, the Grantors' obligations under the GCA and the Amended and Restated Security Agreement have been satisfied in full and the security interest granted to Secured Party, as successor-in-interest to Redpath, has been released by Secured Party;

WHEREAS, Secured Party has the requisite power and authority to release and discharge its security interest in and to the Intellectual Property; and

WHEREAS, the parties desire to confirm and evidence the termination and release of the security interest in, to and under the Intellectual Property.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Secured Party, on behalf of itself and its successors, legal representatives and assigns, hereby unconditionally, irrevocably and absolutely (i) assigns to Grantors all of Secured Party's right, title and interest (if any) in and to the Intellectual Property and (ii) terminates, cancels, releases and forever discharges any and all security interests it holds in, to and under the Intellectual Property, including, without limitation, the trademarks and patents set forth on Exhibit A and Exhibit B, respectively.

Secured Party shall take all further reasonable actions, and provide to Grantors or their successors, assigns or other legal representatives, all such reasonable cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), requested by Grantors to more fully and effectively effectuate the purposes of this Release, in each case, at Grantors' expense. By this instrument, Secured Party authorizes and requests Grantors to record this Release with the USPTO.

This Release shall be governed by the internal laws of the State of New York, without giving effect to the choice of law provisions thereof.

SIGNATURE PAGE FOLLOWS

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IN WITNESS WHEREOF, Investor has caused this Release to be executed by its respective duly authorized representative as of the date first above written.

HUDSON BAY MASTER FUND LTD, as successor-in-interest by assignment to Redpath Equityholder Representative, LLC

Name: George Anionopendos

Title: Authorized Signatory

Exhibit A Trademarks

Grantor	Country	Trademark	Application or Registration No.	Filing Date	Registration Date	Assignees
Interpace Diagnostics Corporation	US	PATHFINDERTG	3208314	3/28/2006	2/13/2007	SWK Funding, LLC
Interpace Diagnostics, LLC	US	MIRINFORM	4071426	6/21/2010	12/13/2011	Redpath Equity Holder Representative
Publicis Healthcare Solutions, Inc.	US	PD ONE and Design	4593300	3/12/2012	8/26/2014	Publicis Healthcare Solutions, Inc.
Publicis Healthcare Solutions, Inc.	US	PD ONE	4593299	3/12/2012	8/26/2014	Publicis Healthcare Solutions, Inc.
Interpace Diagnostics, LLC	US	MIRINFORM	4071427	6/21/2010	12/13/2011	Redpath Equity Holder Representative
Interpace Diagnostics, LLC	WIPO	MIRINFORM	1162299	5/8/2013	5/8/2013	N/A
Interpace Diagnostics, LLC	WIPO	MIRINFORM	1162175	5/8/2013	5/8/2013	N/A
Interpace Diagnostics, LLC	US	BarreGen	5142307	2/5/15	2/14/17	N/A
Interpace Diagnostics, LLC	US	BARREGEN ESOPHAGEAL CANCER RISK CLASSIFIER	86/910938	2/17/16	N/A	N/A
Interpace Diagnostics, LLC	US	Interpace Diagnostics	5072603	3/17/16	11/1/16	N/A
Interpace Diagnostics, LLC	US	INTERPACE DIAGNOSTICS in Class 35	4646544	11/27/13	11/25/14	SWK Funding LLC, as Agent Redpath Equity Holder Representative
Interpace Diagnostics, LLC	US	MOLECULE LOGO	4882368	5/23/14	1/5/16	SWK Funding LLC, as Agent Redpath Equity Holder Representative

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Grantor	Country	<u>Trademark</u>	Application or Registration No.	Filing Date	Registration Date	Assignees
Interpace Diagnostics, LLC	US	New Molecule Logo	5067909	3/17/16	10/25/16	N/A
Interpace Diagnostics, LLC	US	PancraGEN	4796668	8/19/14	8/18/15	SWK Funding LLC, as Agent Redpath Equity Holder Representative
Interpace Diagnostics, LLC	US	PANCRAMIR	86/357914	8/5/14	N/A	SWK Funding LLC, as Agent
Interpace Diagnostics, LLC	US	PANDNA	87/178397	9/21/16	N/A	N/A
Interpace Diagnostics, LLC	US	POWER IN PERFORMANCE	4729240	6/1/14	4/28/15	SWK Funding LLC, as Agent Redpath Equity Holder Representative
Interpace Diagnostics, LLC	US	ThyGenX	4729279	8/13/14	4/28/15	SWK Funding LLC, as Agent Redpath Equity Holder Representative
Interpace Diagnostics, LLC	US	THYRAMIR	4882519	8/19/14	1/5/16	SWK Funding LLC, as Agent Redpath Equity Holder Representative

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Exhibit B Patents

U.S. Cases:

Owner	App. No.	Filing Date	Title	Country
Interpace	Patent No. 60/826,173	Issue Date 09/19/2006	MicroRNAs Differentially Expressed in	US
Diagnostics	NA	NA	Pancreatic Disease and Uses Thereof	US
Interpace	11/857,948	9/19/2007	MicroRNAs Differentially Expressed in	US
Diagnostics	NA	NA NA	Pancreatic Disease and Uses Thereof	0.0
Interpace	61/414,778	11/17/2010	MiRNAs as Biomarkers for	US
Diagnostics	NA	NA	Distinguishing Benign from Malignant	0.0
			Thyroid Neoplasms	
Interpace	13/299,226	11/17/2011	MiRNAs as Biomarkers for	US
Diagnostics	NA	NA	Distinguishing Benign from Malignant	
			Thyroid Neoplasms	
Interpace	61/534,332	09/13/2011	Methods and Compositions Involving	US
Diagnostics	NÁ	NA	miR-135B for Distinguishing	
			Pancreatic Cancer from Benign	
			Pancreatic Disease	
Interpace	61/536,486	09/19/2011	Methods and Compositions Involving	US
Diagnostics	NA	NA	miR-135B for Distinguishing	
			Pancreatic Cancer from Benign	
			Pancreatic Disease	
Interpace	13/615,066	9/13/2012	Methods and Compositions Involving	US
Diagnostics	9,644,241	5/9/2017	miR-135B for Distinguishing	
			Pancreatic Cancer from Benign	
			Pancreatic Disease	
Interpace	15/491,399	4/19/2017	Methods and Compositions Involving	US
Diagnostics	NA	NA	miR-135B for Distinguishing	
			Pancreatic Cancer from Benign	
			Pancreatic Disease	
Interpace	61/552,451	10/27/2011	miRNAs as Diagnostic Biomarkers to	US
Diagnostics	NA	NA	Distinguish Benign from Malignant	
			Thyroid Tumors	
Interpace	61/552,762	10/27/2011	miRNAs as Diagnostic Biomarkers to	US
Diagnostics	NA	NA	Distinguish Benign from Malignant	
			Thyroid Tumors	
Interpace	13/662,450	10/27/2012	miRNAs as Diagnostic Biomarkers to	US
Diagnostics	NA	NA	Distinguish Benign from Malignant	
	***************************************		Thyroid Tumors	
Interpace	61/709,411	10/04/2012	Diagnostic mirnas for Differential	US
Diagnostics	NA	NA	Diagnosis of Incidental Pancreatic	***************************************

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Owner	App. No. Patent No.	Filing Date Issue Date	Title	Country
			Cystic Lesions	
Interpace	61/716,396	10/19/2012	Diagnostic mirnas for Differential	US
Diagnostics	NA	NA	Diagnosis of Incidental Pancreatic	
	***************************************		Cystic Lesions	
Interpace	13/801,737	3/13/2013	Diagnostic mirnas for Differential	US
Diagnostics	NA	NA	Diagnosis of Incidental Pancreatic	
			Cystic Lesions	
PDI, Inc.	13/436,259	3/30/2012	Consolidated Presentation Of	US
			Pharmaceutical Information From	
			Multiple Sources	
JS Genetics	13/266434	4/28/2010	Molecdular Diagnosis of Fragile X	US
Inc.			Syndrome Associated with FMR1 Gene	
JS Genetics	13/266429	4/26/2010	Method of Prenatal Molecular	US
Inc.			Diagnosis of Down Syndrome and	
			Other Trisomic Disorders	
Interpace	62/267,619	12/15/2015	Methods for Treating Barrett's	US
Diagnostics	NA		Metaplasia and Esophageal	
Group, Inc.			Adenocarcinoma	
Interpace	15/378,370	12/14/2016	Methods for Treating Barrett's	US
Diagnostics	NA		Metaplasia and Esophageal	
Group, Inc.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Adenocarcinoma	

Foreign Cases:

Owner	App. No. Patent No.	Filing Date Issue Date	Title	Country
Interpace	PCT/US07/78936	09/19/2007	MicroRNAs Differentially Expressed	PCT
Diagnostics	NA	NA	in Pancreatic Disease and Uses	
			Thereof	
Interpace	2007299828	9/19/2007	MicroRNAs Differentially Expressed	AU
Diagnostics	2007299828 B1	NA	in Pancreatic Disease and Uses	
			Thereof	
Interpace	2,664,383 NA	9/19/2007	MicroRNAs Differentially Expressed	CA
Diagnostics		NA	in Pancreatic Disease and Uses	
			Thereof	
Interpace	12159733	9/19/2007	MicroRNAs Differentially Expressed	EU
Diagnostics	EP 2487240B1	NA	in Pancreatic Disease and Uses	
			Thereof	
Interpace	2009-529373	9/19/2007	MicroRNAs Differentially Expressed	JP
Diagnostics	5520605	4/11/2014	in Pancreatic Disease and Uses	
			Thereof	
Interpace	PCT/US11/61237	11/17/2011	MiRNAs as Biomarkers for	PCT
Diagnostics	NA	NA	Distinguishing Benign from	

Owner	App. No. Patent No. Filing Date Issue Date		Title	Country
		23,486 23866	Malignant Thyroid Neoplasms	
Interpace	2011329772 NA	11/17/2011	MiRNAs as Biomarkers for	AU
Diagnostics		NA	Distinguishing Benign from	
			Malignant Thyroid Neoplasms	
Interpace	1120130122650 NA	11/17/2011	MiRNAs as Biomarkers for	BR
Diagnostics		NA Distinguishing Benign from		
-			Malignant Thyroid Neoplasms	
Interpace	2817882 NA	11/17/2011	MiRNAs as Biomarkers for	CA
Diagnostics		NA	Distinguishing Benign from	
			Malignant Thyroid Neoplasms	
Interpace	14150739.2	11/17/2011	MiRNAs as Biomarkers for	EU
Diagnostics	EP 2772550B1	NA	Distinguishing Benign from	
			Malignant Thyroid Neoplasms	
Interpace	226356 NA	11/17/2011	MiRNAs as Biomarkers for	IL
Diagnostics		NA	Distinguishing Benign from	
			Malignant Thyroid Neoplasms	
Interpace	2013540026 NA	11/17/2011	MiRNAs as Biomarkers for	JP
Diagnostics		NA	Distinguishing Benign from	
			Malignant Thyroid Neoplasms	
Interpace	PCT/US2012/062330	10/27/2012	miRNAs as Diagnostic Biomarkers	PCT
Diagnostics	NA	NA	to Distinguish Benign from	
			Malignant Thyroid Tumors	
Interpace	12787991.4 NA	10/27/2012	miRNAs as Diagnostic Biomarkers	EU
Diagnostics		NA	to Distinguish Benign from	
			Malignant Thyroid Tumors	
Interpace	PCT/US2013/030990	1	Diagnostic mirnas for Differential	PCT
Diagnostics	NA	NA	Diagnosis of Incidental Pancreatic	
			Cystic Lesions	ļ
PDI, Inc.	PCT/US2013/034670	3/29/2013	Consolidated Presentation Of	PCT
			Pharmaceutical Information From	
			Multiple Sources	<u> </u>

Co-owned Patent Applications

Owner	App. No. Patent No.	Filing Date Issue Date	Title	Country
Interpace	13/801,737	3/13/2013	Diagnostic Mirnas For	US
Diagnostics	NA	NA	Differential Diagnosis Of	
& Brig ham			Incidental Pancreatic Cystic	
Women's			Lesions	
Hospital				
Interpace	PCT/US2013/030990	3/13/2013	Diagnostic Mirnas For	PCT
Diagnostics	NA	NA	Differential Diagnosis Of	

& Brighan	Incidental Pancreatic Cystic	
Women's	Lesions	
Hospital		

INTERPACE DIAGNOSTICS CORPORATION Patents (Formerly Redpath Patents)

Pat.No/App.	Country	<u>Status</u>	Title	Filing Date	Issue Date	Assignee
No.	2					
2584989	CA	Abandoned	MOLECULAR ANALYSIS OF CELLULAR FLUID AND LIQUID CYTOLOGY SPECIMENS FOR CLINICAL DIAGNOSIS, CHARACTERIZATION, AND INTEGRATION WITH MICROSCOPIC PATHOLOGY EVALUATION	10/24/2005		Interpace Diagnostics Corporation
2585025	CA	Abandoned	DYNAMIC GENOMIC DELETION EXPANSION AND FORMULATION OF MOLECULAR MARKER PANELS FOR INTEGRATED MOLECULAR PATHOLOGY DIAGNOSIS AND CHARACTERIZATION OF TISSUE, CELLULAR FLUID, AND PURE FLUID SPECIMENS	10/24/2005		Interpace Diagnostics Corporation
2584723	CA	Abandoned	ENHANCED AMPLIFIABILITY OF MINUTE FIXATIVE- TREATED TISSUE SAMPLES, MINUTE STAINED CYTOLOGY SAMPLES, AND OTHER MINUTE SOURCES OF DNA	10/24/2005		Interpace Diagnostics Corporation
05818189.2	EP	Abandoned	MOLECULAR ANALYSIS OF CELLULAR FLUID AND LIQUID CYTOLOGY SPECIMENS FOR CLINICAL DIAGNOSIS, CHARACTERIZATION, AND INTEGRATION WITH MICROSCOPIC PATHOLOGY EVALUATION	10/24/2005		Interpace Diagnostics Corporation

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Pat.No/App. No.	Country	Status	<u>Title</u>	Filing Date	Issue Date	Assignee
05818314.6	ЕР	Abandoned	DYNAMIC GENOMIC DELETION EXPANSION AND FORMULATION OF MOLECULAR MARKER PANELS FOR INTEGRATED MOLECULAR PATHOLOGY DIAGNOSIS AND CHARACTERIZATION OF TISSUE, CELLULAR FLUID, AND PURE FLUID SPECIMENS	10/24/2005		Interpace Diagnostics Corporation
05817148.9	ЕР	Abandoned	ENHANCED AMPLIFIABILITY OF MINUTE FIXATIVE- TREATED TISSUE. SAMPLES, MINUTE STAINED CYTOLOGY SAMPLES, AND OTHER MINUTE SOURCES OF DNA	10/24/2005		Interpace Diagnostics Corporation
60/620926	US	Expired	TOPOGRAPHIC GENOTYPING FOR DEFINING THE DIAGNOSIS, MALIGNANT POTENTIAL, AND BIOLOGICAL BEHAVIOR OF PANCREATIC CYSTS AND RELATED CONDITIONS	10/22/2004		Interpace Diagnostics Corporation
11/255978	US	Abandoned	TOPOGRAPHIC GENOTYPING FOR DETERMINING THE DIAGNOSIS, MALIGNANT POTENTIAL, AND BIOLOGIC BEHAVIOR OF PANCREATIC CYSTS AND RELATED CONDITIONS	10/24/2005		Interpace Diagnostics Corporation
60/631240	US	Expired	TOPOGRAPHIC GENOTYPING FOR DETERMINING THE DIAGNOSIS, MALIGNANT POTENTIAL, AND BIOLOGIC BEHAVIOR OF PANCREATIC CYSTS AND RELATED CONDITIONS	11/29/2004		Interpace Diagnostics Corporation
11/256150	US	Abandoned	MOLECULAR ANALYSIS OF CELLULAR FLUID AND LIQUID CYTOLOGY SPECIMENS FOR CLINICAL DIAGNOSIS, CHARACTERIZATION,	10/24/2005		Interpace Diagnostics Corporation

Pat.No/App. No.	Country	Status	<u>Title</u>	Filing Date	Issue Date	Assignee
nonannir.			AND INTEGRATION WITH MICROSCOPIC PATHOLOGY EVALUATION			
60/644568	US	Expired	TOPOGRAPHIC GENOTYPING FOR DETERMINING THE DIAGNOSIS, MALIGNANT POTENTIAL, AND BIOLOGIC BEHAVIOR OF PANCREATIC CYSTS AND RELATED CONDITIONS	01/19/2005		Interpace Diagnostics Corporation
11/256152	US	Abandoned	DYNAMIC GENOMIC DELETION EXPANSION AND FORMULATION OF MOLECULAR MARKER PANELS FOR INTEGRATED MOLECULAR PATHOLOGY DIAGNOSIS AND CHARACTERIZATION OF TISSUE, CELLULAR FLUID, AND PURE FLUID SPECIMENS	10/24/2005		Interpace Diagnostics Corporation
60/679968	US	Expired	MOLECULAR ANALYSIS OF CELLULAR FLUIDS SPECIMENS FOR CLINICAL DIAGNOSIS, CHARACTERIZATION, AND INTEGRATION WITH MICROSCOPIC PATHOLOGY EVALUATION	05/12/2005		Interpace Diagnostics Corporation
11/255980	US	Abandoned	ENHANCED AMPLIFIABILITY OF MINUTE FIXATIVE- TREATED TISSUE SAMPLES, MINUTE STAINED CYTOLOGY SAMPLES, AND OTHER MINUTE SOURCES OF DNA	10/24/2005		Interpace Diagnostics Corporation
60/679969	US	Expired	DYNAMIC GENOMIC DELETION EXPANSION: A PREDICTOR OF CANCER BIOLOGICAL AGGRESSIVENESS	05/12/2005		Interpace Diagnostics Corporation
14/305,727	US	Pending	TOPOGRAPHIC GENOTYPING FOR DETERMINING THE DIAGNOSIS, MALIGNANT POTENTIAL, AND	6/16/2014		Interpace Diagnostics Corporation

Pat.No/App. No.	Country	<u>Status</u>	<u>Title</u>	Filing Date	Issue Date	Assignee
			BIOLOGIC BEHAVIOR OF PANCREATIC CYSTS AND RELATED CONDITIONS			
US2005/038315	PCT	Expired	MOLECULAR ANALYSIS OF CELLULAR FLUID AND LIQUID CYTOLOGY SPECIMENS FOR CLINICAL DIAGNOSIS, CHARACTERIZATION, AND INTEGRATION WITH MICROSCOPIC PATHOLOGY EVALUATION	10/24/2005		Interpace Diagnostics Corporation
US2005/038313	PCT	Expired	DYNAMIC GENOMIC DELETION EXPANSION AND FORMULATION OF MOLECULAR MARKER PANELS FOR INTEGRATED MOLECULAR PATHOLOGY DIAGNOSIS AND CHARACTERIZATION OF TISSUE, CELLULAR FLUID, AND PURE FLUID SPECIMENS	10/24/2005		Interpace Diagnostics Corporation
US2005/038311	PCT	Expired	ENHANCED AMPLIFIABILITY OF MINUTE FIXATIVE- TREATED TISSUE SAMPLES, MINUTE STAINED CYTOLOGY SAMPLES, AND OTHER MINUTE SOURCES OF DNA	10/24/2005		Interpace Diagnostics Corporation
US2005/038312	PCT	Expired	TOPOGRAPHIC GENOTYPING FOR DETERMINING THE DIAGNOSIS, MALIGNANT POTENTIAL, AND BIOLOGIC BEHAVIOR OF PANCREATIC CYSTS AND RELATED CONDITIONS	10/24/2005		Interpace Diagnostics Corporation
2198774	CA	Abandoned	TOPOGRAPHIC GENOTYPING	09/22/1995		Interpace Diagnostics Corporation
95935153.7	EP	Abandoned	TOPOGRAPHIC GENOTYPING	09/22/1995		Interpace Diagnostics Corporation
8-511138	JP	Abandoned	TOPOGRAPHIC GENOTYPING	09/22/1995		Interpace Diagnostics Corporation
6,340,563 (08/667493)	US	Granted	TOPOGRAPHIC GENOTYPING	06/24/1996	01/22/2002	Interpace Diagnostics Corporation
7,014,999 (10/008278)	US	Granted	TOPOGRAPHIC GENOTYPING	11/05/2001	03/21/2006	Interpace Diagnostics Corporation

Pat.No/App. No.	Country	Status	<u>Title</u>	Filing Date	Issue Date	Assignee
11/289624	US	Abandoned	TOPOGRAPHIC GENOTYPING	11/30/2005		Interpace Diagnostics Corporation
08/311553	US	Abandoned	TOPOGRAPHIC GENOTYPING	09/23/1994		Interpace Diagnostics Corporation
US95/12372	PCT	Expired	TOPOGRAPHIC GENOTYPING	09/22/1995		Interpace Diagnostics Corporation
61/240919	US	Abandoned	GENERATION OF A COMPREHENSIVE PATHOLOGY REPORT BASED ON MOLECULAR AND GENETIC ANALYSIS	09/09/2009		Interpace Diagnostics Corporation
61/294355	US	Abandoned	METHODS OF COMPARATIVE MUTATIONAL PROFILING	01/12/2010		Interpace Diagnostics Corporation
61/429908	US	Expired	METHODS OF COMPARATIVE MUTATIONAL PROFILING	01/05/2011		Interpace Diagnostics Corporation
61/292561	US	Abandoned	METHODS OF IDENTIFYING BLOOD AND BLOOD-DERIVED DNA CONTENT IN CYST	01/06/2010		Interpace Diagnostics Corporation
61/429900	US	Expired	METHODS OF IDENTIFYING BLOOD AND BLOOD-DERIVED DNA CONTENT IN CYST	01/05/2011		Interpace Diagnostics Corporation
61/297136	US	Abandoned	METHOD OF GENERATING A PATHOLOGY REPORT FOR COMPARATIVE MUTATIONAL PROFILING	01/21/2010		Interpace Diagnostics Corporation
61/425109	US	Expired	MOLECULAR DISCRIMINATION BETWEEN SPORADIC VERSUS TOXIN- ASSOCIATED CANCER FORMATION	12/20/2010		Interpace Diagnostics Corporation
13/331966	US	Abandoned	METHODS OF DIFFERENTIATING BETWEEN NON- GENOTOXIN AND GENOTOXIN-ASSOCIATED TUMORS	12/20/2011		Interpace Diagnostics Corporation
61/443014	US	Expired	METHODS OF DIFFERENTIATING BETWEEN NON- GENOTOXIN VERSUS GENOTOXIN-ASSOCIATED TUMORS	02/15/2011		Interpace Diagnostics Corporation
61/549684	US	Expired	METHODS OF GENOTYPING DNA FROM RESIDUAL SUPERNATANT FLUID FORM BIOLOGICAL SPECIMENS	10/20/2011		Interpace Diagnostics Corporation

Pat.No/App. No.	Country	Status	<u>Title</u>	Filing Date	Issue Date	Assignee
61/565879	US	Expired	METHODS OF IDENTIFYING DYSPLASIA IN A SUBJECT	12/01/2011		Interpace Diagnostics Corporation
13/692727	US	Pending	METHODS FOR TREATING BARRETT'S METAPLASIA AND ESOPHAGEAL ADENOCARCINOMA	12/03/2012		Interpace Diagnostics Corporation
13/954247	US	Pending	METHODS FOR TREATING BARRETT'S METAPLASIA AND ESOPHAGEAL ADENOCARCINOMA	07/30/2013		Interpace Diagnostics Corporation
US 14/46702	PCT	Pending	METHODS FOR TREATING BARRETT'S METAPLASIA AND ESOPHAGEAL ADENOCARCINOMA	07/15/2014		Interpace Diagnostics Corporation
61/612061	US	Expired	METHODS OF GENOTYPING DNA FROM RESIDUAL RADIOCONTRAST AGENT	03/16/2012		Interpace Diagnostics Corporation
61/640527	US	Expired	METHODS FOR DIAGNOSING LOW AND HIGH GRADE DYSPLASIA IN BARRETT'S ESOPHAGUS	04/30/2012		Interpace Diagnostics Corporation
61/661256	US	Expired	METHODS FOR DIAGNOSING LOW AND HIGH GRADE DYSPLASIA IN BARRETT'S ESOPHAGUS	06/18/2012		Interpace Diagnostics Corporation
61/731725	US	Expired	METHODS FOR MEASURING CARCINOEMBRYONIC ANTIGEN	11/30/2012		Interpace Diagnostics Corporation
9,341,638	US	Issued	METHODS FOR MEASURING CARCINOEMBRYONIC ANTIGEN	11/27/2013	5/17/2016	Interpace Diagnostics Corporation
15/147,960	US	Pending	METHODS FOR MEASURING CARCINOEMBRYONIC ANTIGEN	5/6/2016		Interpace Diagnostics Corporation
61/824623	US	Expired	METHODS FOR MEASURING CARCINOEMBRYONIC ANTIGEN	05/17/2013		Interpace Diagnostics Corporation
61/840963	US	Expired	METHODS FOR MEASURING CARCINOEMBRYONIC ANTIGEN	06/28/2013		Interpace Diagnostics Corporation

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RECORDED: 06/16/2017