

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5562179

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HYPRES, INC.	04/21/2019

RECEIVING PARTY DATA

Name:	SEEQC, INC.
Street Address:	175 CLEARBROOK RD
Internal Address:	#148
City:	ELMSFORD
State/Country:	NEW YORK
Postal Code:	10523

PROPERTY NUMBERS Total: 52

Property Type	Number
Application Number:	12725426
Application Number:	11243019
Application Number:	11943798
Application Number:	12494876
Application Number:	12403537
Application Number:	11243020
Application Number:	11360749
Application Number:	15852910
Application Number:	15290583
Application Number:	14996926
Application Number:	14064267
Application Number:	12902572
Application Number:	15488168
Application Number:	14636632
Application Number:	13349641
Application Number:	09629823
Application Number:	09999864
Application Number:	11895478
Application Number:	12973661

PATENT

Property Type	Number
Application Number:	15888601
Application Number:	15374618
Application Number:	14643078
Application Number:	15456010
Application Number:	14850634
Application Number:	13771330
Application Number:	13073954
Application Number:	11616382
Application Number:	14844866
Application Number:	13887949
Application Number:	13662490
Application Number:	12986720
Application Number:	15679935
Application Number:	14508514
Application Number:	15583414
Application Number:	14449410
Application Number:	13448436
Application Number:	13243016
Application Number:	11840931
Application Number:	08897475
Application Number:	08892447
Application Number:	15356030
Application Number:	16149910
Application Number:	15450855
Application Number:	14595559
Application Number:	13471674
Application Number:	12543482
Application Number:	12649306
Application Number:	16016149
Application Number:	62744494
Application Number:	16153659
Application Number:	12258682
Application Number:	15679789

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.

Phone: 6462019100

Email: shoffberg@tullylegal.com
Correspondent Name: STEVEN M. HOFFBERG
Address Line 1: 777 THIRD AVE
Address Line 2: 22ND FL
Address Line 4: NEW YORK, NEW YORK 10017

ATTORNEY DOCKET NUMBER:	SEEQC-001
NAME OF SUBMITTER:	STEVEN M. HOFFBERG
SIGNATURE:	/Steven M. Hoffberg/
DATE SIGNED:	06/07/2019

Total Attachments: 13

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PATENT AND PATENT APPLICATION ASSIGNMENT

WHEREAS, Hypres, Inc., a Delaware corporation with its principal place of business at 175 Clearbrook Rd. #148 Elmsford, NY 10523 ("Assignor"), desires to sell, transfer, convey, assign, and deliver all of its right, title, and interest in and to the Assigned Patents (as defined below), including the rights to file patent applications and obtain patents in all jurisdictions worldwide; and

WHEREAS, SeeQC, Inc., a Delaware corporation with its principal place of business at 175 Clearbrook Rd. #141 Elmsford, NY 105 ("Assignee"), desires to acquire all of Assignor's right, title, and interest in and to the Assigned Patents;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged by Assignor

1. Assignor does hereby sell, transfer, convey, assign, and deliver to Assignee all of Assignor's right, title, and interest in and to (i) the patents, design patents, industrial designs, petty patents, utility models and patent applications, including provisional patent applications listed in Appendix A (the "Patent Properties"); (ii) any and all patents and patent sharing the priority of any Patent Property, including all continuations, continuations-in-part, divisions, patents of addition, confirmations, reissues, renewals, extensions and equivalents or counterparts thereof anywhere in the world ("Extensions"), and (iii) all patent, design patent, industrial design, petty patent, utility model, patent application (including any provisional patent application having substantially the same specification as, and/or terminally disclaimed for or against, any Patent Property or Extension, regardless of whether those rights arise under the laws of the United States or any other state, country or jurisdiction throughout the world (all of the foregoing collectively the "Assigned Patents"); the same to be held and enjoyed by Assignee and its successors and assigns entirely as if the same would have been held and enjoyed by Assignor had this assignment not been made, and further with all rights of action, powers and benefit to the Assigned Patents, due or accrued, including the right to sue for and recover in the Assignee's own name and that of its successors and assigns and other legal representatives all remedies of every nature, including, without limitation, rights to injunctive relief, damages, profits, costs and attorney fees, arising out of any infringement of the Assigned Patents.

2. From time to time, on and after the effective date of this Patent and Patent Applications Assignment, Assignor shall, at the reasonable request and the expense of Assignee: (a) execute and deliver or cause to be delivered any documents and further instruments of assignment consistent with the present assignment, and (b) take or cause to be taken all such other actions, as may reasonably be deemed necessary or desirable in order for Assignee to obtain the full benefits of the present assignment.

3. This Patent and Patent Applications Assignment shall inure to the benefit of and be binding upon Assignee and Assignor and their respective successors and assigns.

4. Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or

transfer all Assigned Patents to Assignee, as owner of the entire right, title and interest therein.

[Signature Page Follows]

IN WITNESS WHEREOF, Assignor and Assignee have executed this Patent and Patent Applications Assignment as of the later date set forth below.

HYPRES, INC.

By: RE HITT
Name: RICHARD E. HITT, JR
Title: PRESIDENT/CEO
Date: 4/21/2019

SEEQC, INC.

By: _____
Name: _____
Title: _____
Date: _____

[THIS IS THE SIGNATURE PAGE FOR THE
PATENT AND PATENT APPLICATIONS ASSIGNMENT.]

IN WITNESS WHEREOF, Assignor and Assignee have executed this Patent and Patent Applications Assignment as of the later date set forth below.

HYPRES, INC.

By: _____

Name: _____

Title: _____

Date: _____

SEEQC, INC.

By: _____

Name: JOHN LEVY

Title: CHAIRMAN

Date: 20 APRIL 2017

[THIS IS THE SIGNATURE PAGE FOR THE
PATENT AND PATENT APPLICATIONS ASSIGNMENT.]

**APPENDIX A To
PATENTS AND PATENT APPLICATIONS ASSIGNMENT:
ASSIGNED PATENTS**

Agreement Numbering	Patent Number	HYPRES Reference	Patent Application No.	Country	Attorney Docket.	Title	Inventors	Date Filed	Date Issued
219	8050648 7680474	2010-1 2005-1	12/725,426 11/243,019	US	HYPRES-219.1 HYPRES-219	Superconducting Digital Mixer	Kirichenko A., Sarwana, Gupta	3/16/2010 10/4/2005	11/1/2011 11/10/2009
221	7554369 7944253	2005-2 2009-5	11/943,798 12/494,876	US	84008 and 84008CIP 1 HYPRES-221.1, HYPRES-221.2	Digital Programmable Frequency Divider	Kirichenko A.	10/4/2005 11/21/2007 (CIP); 6/30/2009	6/30/2009 5/17/2011
222	7750664 7508230	2009-2 2005-3	12/403,537 11/243,020	US	HYPRES-222.1, 84009 HYPRES-222	Digital Programmable Phase Generator	Kirichenko A.	3/13/2009 10/4/2005	7/6/2010 3/24/2009
223	7443719	2006-1	11/360,749	US	84010 HYPRES-223	Superconducting Circuit for High-Speed Lookup Table	Kirichenko A., Filippov, Gupta	2/23/2006	10/28/2008
233	Pending; 9853645 9473124 9240773 8571614	2016-10 2016-10 2016-1 2013-8 2010-6	15/852,910 15/290,583 14/996,926 14/064,267 12/902,572	US	Hypres-233.5 Hypres-233.4 Hypres-233.3 HYPRES-233.2	Low power biasing networks for superconducting ICs	Mukhanov, A.Kirichenko, D.Kirichenko	12/22/2017 10/11/2016 1/15/2016 10/28/2013 10/12/2010	Pending; 12/26/2017 10/18/2016 1/19/2016 10/29/2013

Agreement Numbering	Patent Number	HYPRES Reference	Patent Application No.	Country	Attorney Docket.	Title	Inventors	Date Filed	Date Issued
					HYPRES-233.1				
					HYPRES-240.3 P/5769-153 HYPRES-240.2 P/5769-91 HY12-10/ HYPRES-240.1	Superconducting devices with ferromagnetic barrier junctions	Mukhanov, Vernik, Nevirkovets, Kadin	4/14/2017 3/3/2015 1/13/2012	Pending 4/18/2017 3/3/2015
240	Pending 9627045 8971977	2017-6 2015-3 2012-1	15/488,168 14/636,632 13/349,641	US					
					82027/27 0979 PillsbWint h Hypres-246	Universal delay insensitive logic circuit	Kirichenko A.	7/31/2000	11/26/2002
246	6486694	2000-1	09/629,823	US					
					Hypres 13/ Hypres-248	Superconducting dual function digitizer	Gupta, Kirichenko A., Sarwana, Mukhanov O.	10/19/2001	11/25/2003
248	6653962	2001-3	09/999,864	US					
					Hypres 20 Hypres-260	Ultrafast Circuitry for Digital Filter	Filipov, Mukhanov	8/24/2007	8/2/2011
260	7991814	2007-5	11/895,478	US					
					HY10-11 Hypres-261	Injection locked long Josephson junction pulse source	Kirichenko, D.	12/20/2010	3/26/2013
261	8406834	2010-9	12/973,661	US					

Agreement Numbering	Patent Number	HYPRES Reference	Patent Application No.	Country	Attorney Docket.	Title	Inventors	Date Filed	Date Issued
263	Pending 9887000 9520180	2016-12 2016-12 2015-5	15/888,601 15/374,618 14/643,078	US	HYPRES- 263.3 HYPRES- 263.2 P5769- 146 HYPRES- 263.1	System and method for cryogenic hybrid technology computing and memory	Mukhanov, Vernik, Nevirkovets, Kadin	2/5/2018 12/9/2016 3/10/2015	Pending 2/6/2018 12/13/2016
225	10109673 9595656 9136457 8383426 7615385	2017-3 2015-9 2013-1 2011-3 2006-6	15/456,010 14/850,634 13/771,330 13/073,954 11/616,382	US	HYPRES- 225.5 HYPRES- 225.4 HYPRES- 225.3 HYPRES- 225.2 84013 HYPRES- 225	Double-Masking Technique For Increasing Fabrication Yield In Superconducting Electronics	Tolpygo	3/10/2017 9/11/2015 2/20/2013 3/28/2011 12/27/2006	10/23/2018 3/14/2017 9/15/2015 2/26/2013 11/10/2009
235	Pending 9741920 9130116 8437818 8301214	2017-12 2015-10 2013-4 2012-12 2011-1	15/678,789 14/844,866 13/887,949 13/662,490 12/986,720	US	HYPRES- 235.5 HYPRES- 235.4 HYPRES- 235.3 HYPRES- 235.2 HYPRES- 235.1	System and Method for Providing Multi- conductive Layer Interconnects for Superconducting ICs	Tolpygo, Amparo, Hunt, Vivalda, Yohannes	8/17/2017 9/3/2015 5/6/2013 10/28/2012 1/7/2011	Pending 8/22/2017 9/8/2015 5/7/2013 10/30/2012
242	Pending 9741918	2017-13 2014-4	15/679,935 14/508,514	US	HYPRES- 242.2 Hypes- 242.1	Method for increasing the integration level of	Yohannes, A. Kirichenko, Vivalda, Hunt	8/17/2017 10/7/2014	Pending 8/22/2017

Agreement Numbering	Patent Number	HYPRES Reference	Patent Application No.	Country	Attorney Docket.	Title	Inventors	Date Filed	Date Issued
					(P/5769-119)	superconducting electronic circuits			
202	Pending 9647194 8804358 8937255 8159825	2017-7 2014-2 2012-3 2011-8 2007-4	15/583,414 14/449,410 13/448,436 13/243,016 11/840,931	US	HYPRES-202.4 (P/5769-0155) HYPRES-202.3 (P/5769-0116) HYPRES-202.2 HYPRES-202.1 HYPRES-202	Superconductive Multi-Chip Module for High Speed Digital Circuits Method for Fabrication of Electrical Contacts to Superconducting Circuits	Dotsenko	5/1/2017 8/1/2014 4/17/2012 9/23/20118 8/18/2007	Pending 5/9/2017 8/12/2014 1/20/2015 4/17/2012
243	5936458	H-105	08/897,475	US	Hypres-243	Superconducting analog amplifier circuits	Rylov	7/21/1997	7/21/1997
244	5982219	H-104 / H-108	08/892,447	US	Hypres-244	Asynchronous dual-rail demultiplexer employing Josephson junctions	Kirichenko A.	7/14/1997	11/9/1999
266*	10097281	2016-11	15/356,030	US	HYPRES-266.1	System and Method for Optoelectronic Data Link	Vernik, Mukhanov, Kadin, Phare, Lipson, Bergman	11/18/2016	10/9/2018

Agreement Numbering	Patent Number	HYPRES Reference	Patent Application No.	Country	Attorney Docket.	Title	Inventors	Date Filed	Date Issued
269 *	Pending	2017-14	16/149910	US	Hypres- 269.1	Superconducting optical-to-digital converter	Mukhanov, Vernik	10/2/2018	Pending
220	Allowed 9588191 8933695 8179133	2017-2 2015-1 2012-4 2009-9	15/450,855 14/595,559 13/471,674 12/543,482	US	HYPRES- 220.4 HYPRES- 220.3 P/5769- 124 HYPRES 220.2 HYPRES- 220.1	High Linearity Superconducting Radio Frequency Magnetic Field Detector	Kornev, Soloviev, Klenov, Mukhanov	3/6/2017 1/13/2015 5/15/2012 8/18/2009	Pending 3/7/2017 1/13/2015 5/15/2012
230.1 *	Pending	5/15/2012	12/649,306	US	HYPRES- 230.1	System and Method for Determining a Direction to a Source of a Radio Frequency Emission	Polyakov, Semenov, Mukhanov	12/29/2009	Pending
268 *	Pending	2018-2	16/016,149	US	Hypres- 268.1	Integrated Superconducting Nanowire Digital Photon Detector	Jafari-Salim, Yohannes, Mukhanov, Kadin	6/22/2018	Pending
	Pending		62/744,494	US	Hypres- 270	System and Method for Superconducting Multi-Chip Module	Yohannes, Amparo Chernyashensk yy, Mukhanov, Renzullo, Talalaevskii, Vernik, Vivalda, Walter	10/11/2018	Pending

AMENDMENT NO. 1 TO PATENT AND PATENT APPLICATION ASSIGNMENT

THIS AMENDMENT NO. 1 TO PATENT AND PATENT APPLICATION ASSIGNMENT (this "***Amendment***") is entered into as of June 6, 2019 (the "***Effective Date***") by Hypres, Inc., a Delaware corporation ("***Hypres***") and SeeQC, Inc., a Delaware corporation ("***SeeQC***").

WHEREAS, Hypres and SeeQC previously entered into that certain Patent and Patent Application Assignment dated April 22, 2019, (the "***Prior Agreement***"); and

WHEREAS, Hypres and SeeQC desire to amend the Prior Agreement in certain respects, as set forth in this Amendment.

NOW, THEREFORE, in consideration of the mutual agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Hypres and SeeQC hereby agree as follows:

1. Appendix A: Assigned Parties, of the Prior Agreement shall be amended pursuant to the additions and correction set forth on Schedule A hereto.

2. Miscellaneous.

(a) Governing Law. This Amendment shall be governed by and construed under the laws of the State of Delaware as applied to agreements among Delaware residents, made and to be performed entirely within the State of Delaware.

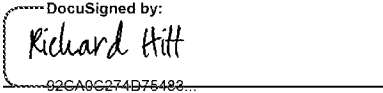
(b) Counterparts. This Amendment may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

(c) Entire Agreement. This Amendment and the Prior Agreement constitute the full and entire understanding and agreement between the Parties with regard to the subjects hereof and thereof. Except as amended herein, the Prior Agreement shall remain in full force and effect.

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IN WITNESS WHEREOF the undersigned have consented to this Amendment No. 1 to the Patent and Patent Application Assignment by and between Hypres and SeeQC as of the date first above written.

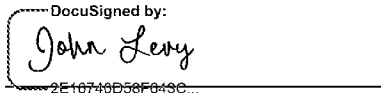
HYPRES, INC.

By: 02CA0C274D75482...

Name: Richard Hitt

Title: Chief Executive Officer

SEEQC, INC.

By: 2E10740D50F049C...

Name: John Levy

Title: Chief Executive Officer

**SCHEDULE A
ADDITIONS AND CORRECTION TO APPENDIX A TO PATENT AND PATENT APPLICATIONS ASSIGNMENT: ASSIGNED
PATENTS.**

Addition to current Agreement Numbering 266 and 233:

Agreement Numbering	Patent Number	HYPRES Reference	Patent Application No.	Country	Attorney Docket.	Title	Inventors	Date Filed	Date Issued
266*	1009728 1 Pending	2016-11 2018-10	15/356,030 16/153,659	US	HYPRES - 266.1 HYPRES - 266.2	System and Method for Optoelectronic Data Link	Vernik, Mukhanov, Kadin, Phare, Lipson, Bergman	11/18/2016 10/05/2018	10/9/2018 Pending
223	7443719 7,903,456	2006-1 2008-10	11/360,749 12/258,682	US	84010 HYPRES - 223 HYPRES - 223.1	Superconducting Circuit for High-Speed Lookup Table	Kirichenko A., Filippov, Gupta	2/23/2006 10-27-2008	10/28/2008 03-08-2011

Correction:

Agreement Numbering	Patent Number	HYPRES Reference	Patent Application No.	Country	Attorney Docket.	Title	Inventors	Date Filed	Date Issued
235	Pending 9741920 9130116 8437818 8301214	2017-12 2015-10 2013-4 2012-12 2011-1	15/679,789 14/844,866 13/887,949 13/662,490 12/986,720	US	HYPRES - 235.5 HYPRES - 235.4 HYPRES - 235.3 HYPRES - 235.2 HYPRES - 235.1	System and Method for Providing Multi-conductive Layer Interconnects for Superconducting ICs	Tolpygo, Amparo, Hunt, Vivalda, Yohannes	8/17/2017 9/3/2015 5/6/2013 10/28/2012 1/7/2011	Pending 8/22/2017 9/8/2015 5/7/2013 10/30/2012