#### 506316713 10/22/2020

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT6363462 Stylesheet Version v1.2

**SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT** 

#### **CONVEYING PARTY DATA**

Name	Execution Date
JWO-SY CHEN	10/17/2020
NEAL PISENTI	10/17/2020
YUNSEONG NAM	10/16/2020

#### **RECEIVING PARTY DATA**

Name:	IONQ, INC.
Street Address:	4505 CAMPUS DRIVE
City:	COLLEGE PARK
State/Country:	MARYLAND
Postal Code:	20740

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16708207

#### CORRESPONDENCE DATA

Fax Number: (213)629-7401

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: 2136297400

Email: patentdocket@arentfox.com

ARENT FOX LLP-LOS ANGELES **Correspondent Name:** 

Address Line 1: 555 WEST FIFTH STREET

Address Line 2: 48TH FLOOR

Address Line 4: LOS ANGELES, CALIFORNIA 90013

ATTORNEY DOCKET NUMBER:	038510-00096
NAME OF SUBMITTER:	DIANA SCARLETT FIGUEROA
SIGNATURE:	/Diana Figueroa/
DATE SIGNED:	10/22/2020

#### **Total Attachments: 3**

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**PATENT** REEL: 054139 FRAME: 0747 506316713

Docket No. <u>038510.00096</u>

# WORLDWIDE ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00 US), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

		SSIGNOR) by		
[Insert	IonQ, Inc.			
ASSIGNEE's Name(s) and		505 Campus Drive		
Address(es)]	Colle	ege Park, MD 20740 United States		
		Officed States		
	(hereinafter ASSIGNEE), the receipt of which is I hereby sells, assigns and transfers to ASSIGNEE to sue for past infringement, if any, and all rights p	the entire and exclusive right, title and	l interest, including the right	
[Title of Invention]	TECHNIQUES FOR CONTROLLING SMALL ANGLE MØLMER-SØRENSEN GATES AND FOR HANDLING ASYMMETRIC SPAM ERRORS			
[*If the assignment is being filed	for which application for Letters Patent of the Urindicated below:	nited States was executed on even dat	e herewith unless otherwise	
after the filing of the application,	filed on <u>December 9, 2019</u>	<b>Serial No.:</b> 16/708,207		
this section must be completed]	(Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date, when known)			
	and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries to be obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substitute, reissue or reexamination thereof, and any other applications claiming priority thereto, including future inventions or improvements, for the full term or terms for which the same may be granted.			
	The ASSIGNOR agrees to execute all padivisional, continuation-in-part, reissue or reexampriority thereto, including future inventions or in with such applications as the ASSIGNEE may deep	nination applications thereof and any approvements, also to execute separate	other applications claiming	
	The ASSIGNOR agrees to execute all particles of their legal proceeding which may be declared continuation-in-part, reissue or reexamination the other applications claiming priority thereto, include ASSIGNEE in every way possible in obtaining litigation, or other legal proceeding.	d concerning this application or are ereof or Letters Patent or reissue pate ling future inventions or improvement	ny continuation, divisional, ent issued thereon, and any is, and to cooperate with the	
	IN WITNESS WHEREOF, the undersign	ned inventor(s) has (have) affixed his/h	ner/their signature(s).	
[Signature(s) of Assignor(s)]	Qwosy Chen	Jwo-Sy CHEN	10/17/2020	
01 7 1551 61101 (5)]	(SIGNATURE)	(TYPE NAME)	(DATE)	
	-	Neal PISENTI		
-	(SIGNATURE)			
		(TYPE NAME)	(DATE)	
	, , , , , , , , , , , , , , , , , , ,	(TYPE NAME)  Yunseong NAM	(DATE)	

PATENT REEL: 054139 FRAME: 0748

Docket No. 038510.00096

### WORLDWIDE ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00 US), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

[Insert	IonQ, Inc.		
ASSIGNEE's	4505 Campus Drive		
Name(s) and Address(es)]	College Park, MD 20740		
` /•	United States		
	(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR agrees to and hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention titled		
[Title of Invention]	TECHNIQUES FOR CONTROLLING SMALL ANGLE MØLMER-SØRENSEN GATES AND FOR HANDLING ASYMMETRIC SPAM ERRORS		
[*If the assignment is being filed after the filing of the application, this section must be completed]	for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:		
	filed on <u>December 9, 2019</u> Serial No.: 16/708,207		
	(Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date, when known)		

and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries to be obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substitute, reissue or reexamination thereof, and any other applications claiming priority thereto, including future inventions or improvements, for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, continuation-in-part, reissue or reexamination applications thereof and any other applications claiming priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and any other applications claiming priority thereto, including future inventions or improvements, and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

I C CITEM

[Signature(s) of Assignor(s)]

JW0-SY CHEN	
(TYPE NAME)	(DATE)
Neal PISENTI	10/17/2020
(TYPE NAME)	(DATE)
Yunseong NAM	
(TYPE NAME)	(DATE)
	(TYPE NAME)  Neal PISENTI (TYPE NAME)  Yunseong NAM

PATENT REEL: 054139 FRAME: 0749

Docket No. 038510.00096

## WORLDWIDE ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (1.00 US), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

[Insert ASSIGNEE's	IonQ, Inc. 4505 Campus Drive				
Name(s) and			llege Park, MD 20740		
Address(es)]			United States		
	(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR ag hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention titled				rest, including the right
[Title of Invention]	TECHNIQUES FOR CONTROLLING SMALL ANGLE MØLMER-SØRENSEN GATES AND FOR HANDLING ASYMMETRIC SPAM ERRORS				ATES AND FOR
[*If the assignment is being filed	for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:				rewith unless otherwise
after the filing of the application,	filed on	<u>December 9, 2019</u>	Serial No.:	16/708,207	
this section must be completed]	(Arent Fox I	LP is hereby authorized to insert the	series code, serial number and	d/or filing date, when kno	wn)
	and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries to be obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substitute, reissue or reexamination thereof, and any other applications claiming priority thereto, including future inventions or improvements, for the full term or terms for which the same may be granted.				
	The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, continuation-in-part, reissue or reexamination applications thereof and any other applications claiming priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.				
	The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and any other applications claiming priority thereto, including future inventions or improvements, and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.				
	IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).				
[Signature(s)			Jwo-Sy	CHEN	
of Assignor(s)]	(SIC	GNATURE)	(TYPE)		(DATE)
			Neal PI	SENTI	
		SNATURE)	(TYPE)		(DATE)
	4	7	Yunseon	og NAM	Oct 16, 2020
	(SIC	GNATURE)	(TYPE )		(DATE)
	`	*	`	·	, ,

PATENT REEL: 054139 FRAME: 0750

**RECORDED: 10/22/2020**