

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6715969

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DAVID W. COSBY	03/31/2021
THEODORE B. VOJNOVICH	05/18/2021
MANJUNATHA HEBBAR	04/21/2021
ANTHONY C. YU	04/13/2021
PATRICK L. CAPORALE	04/02/2021
RECEIVING PARTY DATA	
Name:	LENOVO ENTERPRISE SOLUTIONS (SINGAPORE) PTE. LTD.
Street Address:	151 LORONG CHUAN, #02-01 NEW TECH PARK
City:	SINGAPORE
State/Country:	SINGAPORE
Postal Code:	556741
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17219212
CORRESPONDENCE DATA	
Fax Number:	
<i>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.</i>	
Phone:	281-732-1945
Email:	jstreets@streetsiplaw.com
Correspondent Name:	STREETS LAW FIRM, PC - LENOVO (SINGAPORE)
Address Line 1:	20319 CORBIN CREEK DRIVE
Address Line 4:	CYPRESS, TEXAS 77433
ATTORNEY DOCKET NUMBER:	XRPS920200081-US-NP
NAME OF SUBMITTER:	JEFFREY L. STREETS
SIGNATURE:	/Jeffrey L. Street, Reg. No. 37453/
DATE SIGNED:	05/18/2021
Total Attachments: 16	
source=XRPS920200081-US-NP_Assignment#page1.tif	

source=XRPS920200081-US-NP_Assignment#page2.tif
source=XRPS920200081-US-NP_Assignment#page3.tif
source=XRPS920200081-US-NP_Assignment#page4.tif
source=XRPS920200081-US-NP_Assignment#page5.tif
source=XRPS920200081-US-NP_Assignment#page6.tif
source=XRPS920200081-US-NP_Assignment#page7.tif
source=XRPS920200081-US-NP_Assignment#page8.tif
source=XRPS920200081-US-NP_Assignment#page9.tif
source=XRPS920200081-US-NP_Assignment#page10.tif
source=XRPS920200081-US-NP_Assignment#page11.tif
source=XRPS920200081-US-NP_Assignment#page12.tif
source=XRPS920200081-US-NP_Assignment#page13.tif
source=XRPS920200081-US-NP_Assignment#page14.tif
source=XRPS920200081-US-NP_Assignment#page15.tif
source=XRPS920200081-US-NP_Assignment#page16.tif

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by David W. Cosby, Theodore B. Vojnovich, Manjunatha Hebbar, Anthony C. Yu and Patrick L. Caporale hereinafter referred to as Assignors); who have a mailing address at c/o Lenovo, 8001 Development Drive, Morrisville, NC, 27560 USA;

WHEREAS, Assignors have invented certain new and useful improvements in **AUTOMATIC FAILOVER OF A SOFTWARE-DEFINED STORAGE CONTROLLER TO HANDLE INPUT-OUTPUT OPERATIONS TO AND FROM AN ASSIGNED NAMESPACE ON A NON-VOLATILE MEMORY DEVICE**, set forth in a Patent application for Letters Patent in a national patent office or international receiving office, for which an application for patent has been concurrently filed herewith. Where this Assignment is not filed concurrently with the application, the following identifying information may be added after execution:

CN Application No.:	_____	Filing Date:	_____
JP Application No.:	_____	Filing Date:	_____
PCT Application No.:	_____	Filing Date:	_____
US Application No.:	17/219,212	Filing Date:	03-31-2021

WHEREAS, Lenovo Enterprise Solutions (Singapore) Pte. Ltd. (hereinafter referred to as Assignee), a Corporation organized under and pursuant to the laws of Singapore, having its principal place of business at 151 Lorong Chuan, #02-01 New Tech Park, Singapore 556741 is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, People's Republic of China and all foreign countries, and in and to any Letters Patent of the United States, People's Republic of China and all foreign countries to be obtained therefore and thereon.

NOW, THEREFORE, to all whom it may concern, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor(s) have sold,

assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and applications for Letters Patent, and in and to any and all direct and indirect provisionals, national stage applications, divisions, continuations, continuations-in-part, substitutions, re-exams, and reissues of said application, and any and all Letters Patent in the United States, People's Republic of China and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent; the right to apply for Letters Patent directly in its own name where applicable; the right to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties; and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or

continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

I hereby grant Assignee(s), the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office, the People's Republic of China National Intellectual Property Administration and/or any other receiving entity for recordation of this document, including the power to insert on this assignment the application number and filing date of said application when known.

Date: 3/21/21

Signature: David W. Cosby
David W. Cosby

Date: _____

Signature: _____
Theodore B. Vojnovich

Date: _____

Signature: _____
Manjunatha Hebbar

Date: _____

Signature: _____
Anthony C. Yu

Date: _____

Signature: _____
Patrick L. Caporale

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by David W. Cosby, Theodore B. Vojnovich, Manjunatha Hebbar, Anthony C. Yu and Patrick L. Caporale hereinafter referred to as Assignors); who have a mailing address at c/o Lenovo, 8001 Development Drive, Morrisville, NC, 27560 USA;

WHEREAS, Assignors have invented certain new and useful improvements in **AUTOMATIC FAILOVER OF A SOFTWARE-DEFINED STORAGE CONTROLLER TO HANDLE INPUT-OUTPUT OPERATIONS TO AND FROM AN ASSIGNED NAMESPACE ON A NON-VOLATILE MEMORY DEVICE**, set forth in a Patent application for Letters Patent in a national patent office or international receiving office, for which an application for patent has been concurrently filed herewith. Where this Assignment is not filed concurrently with the application, the following identifying information may be added after execution:

CN Application No.:	_____	Filing Date:	_____
JP Application No.:	_____	Filing Date:	_____
PCT Application No.:	_____	Filing Date:	_____
US Application No.:	17/219,212	Filing Date:	03-31-2021

WHEREAS, Lenovo Enterprise Solutions (Singapore) Pte. Ltd. (hereinafter referred to as Assignee), a Corporation organized under and pursuant to the laws of Singapore, having its principal place of business at 151 Lorong Chuan, #02-01 New Tech Park, Singapore 556741 is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, People's Republic of China and all foreign countries, and in and to any Letters Patent of the United States, People's Republic of China and all foreign countries to be obtained therefore and thereon.

NOW, THEREFORE, to all whom it may concern, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor(s) have sold,

assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and applications for Letters Patent, and in and to any and all direct and indirect provisionals, national stage applications, divisions, continuations, continuations-in-part, substitutions, re-exams, and reissues of said application, and any and all Letters Patent in the United States, People's Republic of China and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent; the right to apply for Letters Patent directly in its own name where applicable; the right to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties; and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or

continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

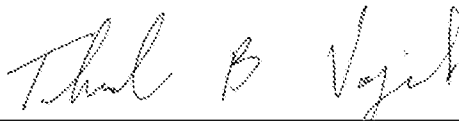
AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

I hereby grant Assignee(s), the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office, the People's Republic of China National Intellectual Property Administration and/or any other receiving entity for recordation of this document, including the power to insert on this assignment the application number and filing date of said application when known.

Date: _____

Signature: _____
David W. Cosby

Date: 5/18/2021

Signature: 
Theodore B. Vojnovich

Date: _____

Signature: _____
Manjunatha Hebbar

Date: _____

Signature: _____
Anthony C. Yu

Date: _____

Signature: _____
Patrick L. Caporale

Date: _____

Signature: _____

Lenovo Enterprise Solutions (Singapore)

Pte. Ltd.

Name:

Title:

-----end of document-----

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by David W. Cosby, Theodore B. Vojnovich, Manjunatha Hebbar, Anthony C. Yu and Patrick L. Caporale hereinafter referred to as Assignors); who have a mailing address at c/o Lenovo, 8001 Development Drive, Morrisville, NC, 27560 USA;

WHEREAS, Assignors have invented certain new and useful improvements in **AUTOMATIC FAILOVER OF A SOFTWARE-DEFINED STORAGE CONTROLLER TO HANDLE INPUT-OUTPUT OPERATIONS TO AND FROM AN ASSIGNED NAMESPACE ON A NON-VOLATILE MEMORY DEVICE**, set forth in a Patent application for Letters Patent in a national patent office or international receiving office, for which an application for patent has been concurrently filed herewith. Where this Assignment is not filed concurrently with the application, the following identifying information may be added after execution:

CN Application No.:	_____	Filing Date:	_____
JP Application No.:	_____	Filing Date:	_____
PCT Application No.:	_____	Filing Date:	_____
US Application No.:	17/219,212	Filing Date:	03-31-2021

WHEREAS, Lenovo Enterprise Solutions (Singapore) Pte. Ltd. (hereinafter referred to as Assignee), a Corporation organized under and pursuant to the laws of Singapore, having its principal place of business at 151 Lorong Chuan, #02-01 New Tech Park, Singapore 556741 is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, People's Republic of China and all foreign countries, and in and to any Letters Patent of the United States, People's Republic of China and all foreign countries to be obtained therefore and thereon.

NOW, THEREFORE, to all whom it may concern, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor(s) have sold,

assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and applications for Letters Patent, and in and to any and all direct and indirect provisionals, national stage applications, divisions, continuations, continuations-in-part, substitutions, re-exams, and reissues of said application, and any and all Letters Patent in the United States, People's Republic of China and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent; the right to apply for Letters Patent directly in its own name where applicable; the right to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties; and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or

continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

I hereby grant Assignee(s), the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office, the People's Republic of China National Intellectual Property Administration and/or any other receiving entity for recordation of this document, including the power to insert on this assignment the application number and filing date of said application when known.

Date: _____ Signature: _____
David W. Cosby

Date: _____ Signature: _____
Theodore B. Vojnovich

Date: 21 April 2021 Signature: 
Manjunatha Hebbar

Date: _____ Signature: _____
Anthony C. Yu

Date: _____ Signature: _____
Patrick L. Caporale

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by David W. Cosby, Theodore B. Vojnovich, Manjunatha Hebbar, Anthony C. Yu and Patrick L. Caporale hereinafter referred to as Assignors); who have a mailing address at c/o Lenovo, 8001 Development Drive, Morrisville, NC, 27560 USA;

WHEREAS, Assignors have invented certain new and useful improvements in **AUTOMATIC FAILOVER OF A SOFTWARE-DEFINED STORAGE CONTROLLER TO HANDLE INPUT-OUTPUT OPERATIONS TO AND FROM AN ASSIGNED NAMESPACE ON A NON-VOLATILE MEMORY DEVICE**, set forth in a Patent application for Letters Patent in a national patent office or international receiving office, for which an application for patent has been concurrently filed herewith. Where this Assignment is not filed concurrently with the application, the following identifying information may be added after execution:

CN Application No.:	_____	Filing Date:	_____
JP Application No.:	_____	Filing Date:	_____
PCT Application No.:	_____	Filing Date:	_____
US Application No.:	17/219,212	Filing Date:	03-31-2021

WHEREAS, Lenovo Enterprise Solutions (Singapore) Pte. Ltd. (hereinafter referred to as Assignee), a Corporation organized under and pursuant to the laws of Singapore, having its principal place of business at 151 Lorong Chuan, #02-01 New Tech Park, Singapore 556741 is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, People's Republic of China and all foreign countries, and in and to any Letters Patent of the United States, People's Republic of China and all foreign countries to be obtained therefore and thereon.

NOW, THEREFORE, to all whom it may concern, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor(s) have sold,

assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and applications for Letters Patent, and in and to any and all direct and indirect provisionals, national stage applications, divisions, continuations, continuations-in-part, substitutions, re-exams, and reissues of said application, and any and all Letters Patent in the United States, People's Republic of China and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent; the right to apply for Letters Patent directly in its own name where applicable; the right to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties; and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or

Docket no. XRPS920200081-US-NP
continuation-in-part of any application for Letters Patent, or any reissue, reexamination or
extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors acknowledge an obligation of assignment of this invention to
Assignee at the time the invention was made.

I hereby grant Assignee(s), the power to insert on this assignment any further
identification which may be necessary or desirable in order to comply with the rules of the
United States Patent and Trademark office, the People's Republic of China National
Intellectual Property Administration and/or any other receiving entity for recordation of this
document, including the power to insert on this assignment the application number and filing
date of said application when known.

Date: _____ Signature: _____
David W. Cosby

Date: _____ Signature: _____
Theodore B. Vojnovich

Date: _____ Signature: _____
Manjunatha Hebbar

Date: 4/13/2021 Signature: _____
Anthony C. Yu

Date: _____ Signature: _____
Patrick L. Caporale

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by David W. Cosby, Theodore B. Vojnovich, Manjunatha Hebbar, Anthony C. Yu and Patrick L. Caporale hereinafter referred to as Assignors); who have a mailing address at c/o Lenovo, 8001 Development Drive, Morrisville, NC, 27560 USA;

WHEREAS, Assignors have invented certain new and useful improvements in **AUTOMATIC FAILOVER OF A SOFTWARE-DEFINED STORAGE CONTROLLER TO HANDLE INPUT-OUTPUT OPERATIONS TO AND FROM AN ASSIGNED NAMESPACE ON A NON-VOLATILE MEMORY DEVICE**, set forth in a Patent application for Letters Patent in a national patent office or international receiving office, for which an application for patent has been concurrently filed herewith. Where this Assignment is not filed concurrently with the application, the following identifying information may be added after execution:

CN Application No.:	_____	Filing Date:	_____
JP Application No.:	_____	Filing Date:	_____
PCT Application No.:	_____	Filing Date:	_____
US Application No.:	17/219,212	Filing Date:	03-31-2021

WHEREAS, Lenovo Enterprise Solutions (Singapore) Pte. Ltd. (hereinafter referred to as Assignee), a Corporation organized under and pursuant to the laws of Singapore, having its principal place of business at 151 Lorong Chuan, #02-01 New Tech Park, Singapore 556741 is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, People's Republic of China and all foreign countries, and in and to any Letters Patent of the United States, People's Republic of China and all foreign countries to be obtained therefore and thereon.

NOW, THEREFORE, to all whom it may concern, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor(s) have sold,

assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and applications for Letters Patent, and in and to any and all direct and indirect provisionals, national stage applications, divisions, continuations, continuations-in-part, substitutions, re-exams, and reissues of said application, and any and all Letters Patent in the United States, People's Republic of China and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent; the right to apply for Letters Patent directly in its own name where applicable; the right to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties; and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or

Docket no. XRPS920200081-US-NP
continuation-in-part of any application for Letters Patent, or any reissue, reexamination or
extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors acknowledge an obligation of assignment of this invention to
Assignee at the time the invention was made.

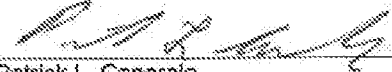
I hereby grant Assignee(s), the power to insert on this assignment any further
identification which may be necessary or desirable in order to comply with the rules of the
United States Patent and Trademark office, the People's Republic of China National
Intellectual Property Administration and/or any other receiving entity for recordation of this
document, including the power to insert on this assignment the application number and filing
date of said application when known.

Date: _____ Signature: _____
David W. Cosby

Date: _____ Signature: _____
Theodore B. Vojnovich

Date: _____ Signature: _____
Manjunatha Hebbar

Date: _____ Signature: _____
Anthony C. Yu

Date: 4/2/21 Signature: 
Patrick L. Caporale