PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7337047

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BENJAMIN H. BOLLINGER	12/16/2020
MERT GEVECI	01/21/2021
BAO H. TRUONG	12/16/2020
ERHAN KARACA	01/16/2021
SEBASTIAN W. FREUND	12/14/2020
DAVID M. BRANTZEG	06/01/2021
JAMES J. UNDERWOOD	06/02/2021
JOHN S. BOWEN	05/28/2021
ROY T. COLLINS	12/16/2020

RECEIVING PARTY DATA

Name:	MALTA INC.
Street Address:	ONE BROADWAY, 14TH FLOOR
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02142

PROPERTY NUMBERS Total: 4

Property Type	Number
Application Number:	62936491
Application Number:	63113386
Application Number:	17777128
PCT Number:	US2020060700

CORRESPONDENCE DATA

Fax Number: (312)759-5646

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

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Correspondent Name: KURT W. ROHDE

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REEL: 060108 FRAME: 0210

PATENT

Address Line 4: CH	CHICAGO, ILLINOIS 60690-2786	
ATTORNEY DOCKET NUMBER:	84007-364117	
NAME OF SUBMITTER:	KURT W. ROHDE (REG. NO. 62923	
SIGNATURE:	/Kurt W. Rohde/	
DATE SIGNED:	05/18/2022	

Total Attachments: 21

source=321835-329295-329296 364117 Assignment#page1.tif source=321835-329295-329296 364117 Assignment#page2.tif source=321835-329295-329296 364117 Assignment#page3.tif source=321835-329295-329296 364117 Assignment#page4.tif source=321835-329295-329296 364117 Assignment#page5.tif source=321835-329295-329296_364117_Assignment#page6.tif source=321835-329295-329296_364117_Assignment#page7.tif source=321835-329295-329296 364117 Assignment#page8.tif source=321835-329295-329296_364117_Assignment#page9.tif source=321835-329295-329296 364117 Assignment#page10.tif source=321835-329295-329296 364117 Assignment#page11.tif source=321835-329295-329296 364117 Assignment#page12.tif source=321835-329295-329296_364117_Assignment#page13.tif source=321835-329295-329296 364117 Assignment#page14.tif source=321835-329295-329296 364117 Assignment#page15.tif source=321835-329295-329296_364117_Assignment#page16.tif source=321835-329295-329296_364117_Assignment#page17.tif source=321835-329295-329296 364117 Assignment#page18.tif source=321835-329295-329296 364117 Assignment#page19.tif source=321835-329295-329296 364117 Assignment#page20.tif source=321835-329295-329296 364117 Assignment#page21.tif

Matter Nos.: 84007-321835, 329295, 329296

Inventor(s): Benjamin R. Bollinger, Mert Geveci, Bao H. Truong, Erhan Karaca, Sebastian W.

Freund, David M. Brantzeg, James J. Underwood, John S. Bowen, Roy T. Collins.

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

MALTA INC.

210 Broadway, Suite 201 Cambridge, MA 02139 United States of America

its successors and assigns, the entire right, title and interest in the invention and improvements of the undersigned disclosed in applications for Letters Patent of the United States and internationally, entitled and identified as:

PUMPED HEAT ELECTRIC STORAGE SYSTEM

U.S. Provisional Patent Application No. 62/936,491, filed November 16, 2019

Case No. 19-1665-US-PRO

Matter No. 321835

PUMPED HEAT ELECTRIC STORAGE SYSTEM
U.S. Provisional Patent Application No. 63/113,386, filed November 13, 2020
Case No. 19-1665-US-PRO2
Matter No. 329295

PUMPED HEAT ELECTRIC STORAGE SYSTEM
International (PCT) Patent Application No. PCT/US2020/060700, filed November 16, 2020
Case No. 19-1665-WO
Matter No. 329296

in the offices of BARNES & THORNBURG LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention and improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application(s) to insert in this assignment the filing date and serial number of said application when officially

Barnes & Thornburg One Horth Wacker Drive Suite 4409 Chicago, Illinois 80808 Telephone (312) 257-1313 Lof3

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Assignor Signature: Name:	Benjamin R. Bollinger	Date: DECEMBER 16,2020
Assignor Signature: Name:	Mert Geveci	Date:
Assignor Signature: Name:	Bao H. Truong	Date:
Assignor Signature: Name:	Erhan Karaca	Date:
Assignor Signature: Name:	Sebastian W. Freund	_ Date:

BARNES & THORNBURG ONE NORTHWACKER DRIVE SUITE 4400 CHRCAGO, BLUNCIS 50405 TELEPHONE (312) 357-1313

84007-321835, 329295, 329296

Assignor Signature:		Date:	***************************************
Name:	David M. Brantzeg		
Assignor Signature:		Date:	
Name:	James J. Underwood	···	
Assignor Signature:		Date:	
Name:	John S, Bowen		
Assignor Signature:	G Collina	Date:	12-16-2020
Name:	Rdy T. Collins	•••	
Assignee Signature:		Date:	
Name:	Elvir Mujanovic, Vice President Finance as legal representative of:		
	MALTA INC.		
	210 Broadway, Suite 201		
	Cambridge, MA 02139		
	United States of America		

DMS 18346136v1

3 of 3

BARNES À THORNEURS ONE NORTH WACKER DRIVE SUFTE 4408 CHECAGO, ELLINOIS 85806 TELEPHONE (\$12) 357-1413

Matter Nos.: 84007-321835, 329295, 329296

Inventor(s): Benjamin R. Bollinger, Mert Geveci, Bao H. Truong, Erhan Karaca, Sebastian W.

Freund, David M. Brantzeg, James J. Underwood, John S. Bowen, Roy T. Collins.

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Matter No. 321835

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Case No. 19-1665-US-PRO2
Matter No. 329295

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International (PCT) Patent Application No. PCT/US2020/060700, filed November 16, 2020
Case No. 19-1665-WO
Matter No. 329296

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Assignor Signature:		Date:
Name:	Benjamin R. Bollinger	
Assignor Signature: Name:	Mert Geveci	Date: Junuary 21,2021
Assignor Signature: Name:	Bao H. Truong	Date:
Assignor Signature: Name:	Erhan Karaca	Date:
Assignor Signature:	Sebastian W. Freund	Date:

BARNES & THORNBURG ONE NORTHWACKER DRIVE SUITE 4400 CHICAGO, ILLINOIS 60606 TELEPHONE (312) 367-1313 2 of 3

84007-321835, 329295, 329296

Assignor Signature:		Date:
Name:	David M. Brantzeg	
Assignor Signature: Name:	James J. Underwood	Date: 06/02/202
Assignor Signature:		Date:
Name:	John S. Bowen	
Assignor Signature:		Date:
Name:	Roy T. Collins	
Assignce Signature:		Date:
Name:	Elvir Mujanovic, Vice President Finance as legal representative of:	•••
	MALTA INC.	
	210 Broadway, Suite 201	
	Cambridge, MA 02139	
	United States of America	

Matter Nos.: 84007-321835, 329295, 329296

Inventor(s): Benjamin R. Bollinger, Mert Geveci, Bao H. Truong, Erhan Karaca, Sebastian W.

Freund, David M. Brantzeg, James J. Underwood, John S. Bowen, Roy T. Collins.

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Case No. 19-1665-WO
Matter No. 329296

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BARNES & THORNBURG ONE NORTHWACKER DRIVE SUITE 4400 CHICAGO, ILLINOIS 60606 TELEPHONE (312) 357-1313

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Assignor Signature:		Date:
Name:	Benjamin R. Bollinger	
Assignor Signature:		Date:
Name:	Mert Geveci	
Assignor Signature: Name:	Bao H. Irrong	Date: 12/16/202
Assignor Signature: Name:	Erhan Karaca	Date:
Assignor Signature: Name:	Sebastian W. Freund	Date:

GRANICA 6 TROTRIBURG CRICKORTH WACKER ORRAE SUITE 4405 CHICAGO, (LUNGIS 10848 TELEPHONE (312) 361-1313

2013

Assignor Signature:		
Name:	David M. Brantzeg	
Assignor Signature: Name:	James J. Underwood	
Assignor Signature: Name:	John S. Bowen	_ Date:
Assignor Signature: Name:	Roy T. Collins	Date:
Assignee Signature: Name:	Elvir Mujanovic, Vice President Finance as legal representative of: MALTA INC. 210 Broadway, Suite 201 Cambridge, MA 02139	Date:

DMS 18546136v1

3 of 3

BARNES & THORNSURG ONE MORTH WACNER DRIVE SUITE 4000 CHICAGO, ILLINGIS 80606 TELEPHONE (312) 057-1313

Matter Nos.: 84007-321835, 329295, 329296

Inventor(s): Benjamin R. Bollinger, Mert Geveci, Bao H. Truong, Erhan Karaca, Sebastian W.

Freund, David M. Brantzeg, James J. Underwood, John S. Bowen, Roy T. Collins.

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Case No. 19-1665-US-PRO
Matter No. 321835

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U.S. Provisional Patent Application No. 63/113,386, filed November 13, 2020
Case No. 19-1665-US-PRO2
Matter No. 329295

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International (PCT) Patent Application No. PCT/US2020/060700, filed November 16, 2020
Case No. 19-1665-WO
Matter No. 329296

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Assignor Signature:	5 · · · · · · · · · · · · · · · · · · ·	Date:
Name:	Benjamin R. Bollinger	
Assignor Signature: Name:	Mert Geveci	Date:
Assignor Signature: Name:	Bao H. Truong	Date:
Assignor Signature: Name:	Erhan Karaca	Date: 01/16/2021
Assignor Signature: Name:	Sebastian W. Freund	Date:

BARNES & THORNBURG ONE NORTH-WACKER DRIVE SUITE 4400 CHICAGO, ILLINOIS 80606 TELEPHONE (312) 357-1313

Assignor Signature:		_ Date:
Name:	David M. Brantzeg	
Assignor Signature: Name:	James J. Underwood	_ Date:
Assignor Signature: Name:	John S. Bowen	_ Date:
Assignor Signature: Name:	Roy T. Collins	Date:
Assignee Signature: Name:	Elvir Mujanovic, Vice President Finance as legal representative of: MALTA INC. 210 Broadway, Suite 201 Cambridge, MA 02139 United States of America	Date:

DMS 18546136v1

3 of 3

BARNES & THORMSURG ONE MORTH WACKER DRIVE SUITE 4400 CHICAGO, ILLINOIS 80608 TELEPHONE (312) 357-1333.

Matter Nos.: 84007-321835, 329295, 329296

Inventor(s): Benjamin R. Bollinger, Mert Geveci, Bao H. Truong, Erhan Karaca, Sebastian W.

Freund, David M. Brantzeg, James J. Underwood, John S. Bowen, Roy T. Collins.

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Case No. 19-1665-US-PRO
Matter No. 321835

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U.S. Provisional Patent Application No. 63/113,386, filed November 13, 2020
Case No. 19-1665-US-PRO2
Matter No. 329295

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International (PCT) Patent Application No. PCT/US2020/060700, filed November 16, 2020
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Matter No. 329296

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Assignor Signature:		Date:
Name:	Benjamin R. Bollinger	
Assignor Signature:		Date:
Name:	Mert Geveci	
Assignor Signature:		Date:
Name:	Bao H. Truong	
Assignor Signature:		Date:
Name:	Erhan Karaca	
Assignor Signature:	555	_{Date:} 12/14/2020
Name:	Sehastian W. Freund	

84007-321835, 329295, 329296

Assignor Signature:	Del Retain	Date: _	6/1/2=21
Name:	David M. Brantzeg	,	
		TNo.200	
Assignor Signature:		_ Date: _	
Name:	James J. Underwood		
		•	
Assignor Signature:		Date: _	
Name:	John S. Bowen		,
A columna Clausterna		Date	
Assignor Signature: Name:	Roy T. Collins		
1 10121103	xoy x. conas		
		37% V	
Assignee Signature:		_ Date: _	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Name:	Elvir Mujanovic, Vice President Finance		
	as legal representative of:		
	MALTA INC.		
	210 Broadway, Suite 201		
	Cambridge, MA 02139		
	United States of America		

Matter Nos.: 84007-321835, 329295, 329296

Inventor(s): Benjamin R. Bollinger, Mert Geveci, Bao H. Truong, Erhan Karaca, Sebastian W.

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PA1

The undersigned warrant themselves to be the owners of the entire right, title and interest in said inventions and improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all provisional, non-provisional, divisional, continuation, continuation-in-part, and substitute applications for said invention and improvements, and any necessary oath, affidavit or declaration relating thereto, and any application(s) for the reissue or extension of any Letters Patent that may be granted upon said application(s) and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Assignor Signature:		Date:	
Name:	Benjamin R. Bollinger		
Assignor Signature: Name:	Mert Geveci	Date:	*******
Assignor Signature: Name:	Bao H. Truong	Date:	
Assignor Signature: Name:	Erhan Karaca	Date:	
Assignor Signature: Name:	Sebastian W. Freund	Date:	

84007-321835, 329295, 329296

Assignor Signature:		Date:
Name:	David M. Brantzeg	····
Assignor Signature:		Date
Name:	James I. Underwood	
Assignor Signature:	Ol I bure	Date: 5/28/2021
Name:	John S. Bowen	<u> </u>
Assignor Signature:	general community (Marcon)	Date:
Name:	Roy T. Collins	
Assignce Signature:		Date:
Name:	Elvir Mujanovic, Vice President Finance as legal representative of:	
	MALTA INC.	
	210 Broadway, Suite 201	
	Cambridge, MA 02139	
	United States of America	

Matter Nos.: 84007-321835, 329295, 329296

Inventor(s): Benjamin R. Bollinger, Mert Geveci, Bao H. Truong, Erhan Karaca, Sebastian W.

Freund, David M. Brantzeg, James J. Underwood, John S. Bowen, Roy T. Collins.

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

MALTA INC.

210 Broadway, Suite 201 Cambridge, MA 02139 United States of America

its successors and assigns, the entire right, title and interest in the invention and improvements of the undersigned disclosed in applications for Letters Patent of the United States and internationally, entitled and identified as:

PUMPED HEAT ELECTRIC STORAGE SYSTEM
U.S. Provisional Patent Application No. 62/936,491, filed November 16, 2019
Case No. 19-1665-US-PRO
Matter No. 321835

PUMPED HEAT ELECTRIC STORAGE SYSTEM
U.S. Provisional Patent Application No. 63/113,386, filed November 13, 2020
Case No. 19-1665-US-PRO2
Matter No. 329295

PUMPED HEAT ELECTRIC STORAGE SYSTEM
International (PCT) Patent Application No. PCT/US2020/060700, filed November 16, 2020
Case No. 19-1665-WO
Matter No. 329296

in the offices of BARNES & THORNBURG LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention and improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application(s) to insert in this assignment the filing date and serial number of said application when officially

BARNES & THORNBURG ONE NORTHWACKER DRIVE SUITE 4400 CHICAGO, ILLINOIS 60606 TELEPHONE (312) 357-1313

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention and improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all provisional, non-provisional, divisional, continuation, continuation-in-part, and substitute applications for said invention and improvements, and any necessary oath, affidavit or declaration relating thereto, and any application(s) for the reissue or extension of any Letters Patent that may be granted upon said application(s) and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Assignor Signature:		Date:
Name:	Benjamin R. Bollinger	
Assignor Signature: Name:	Mert Geveci	Date:
Assignor Signature: Name:	Bao H. Truong	Date:
Assignor Signature: Name:	Erhan Karaca	Date:
Assignor Signature: Name:	Sebastian W. Freund	Date:

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Assignor Signature:		_ Date:
Name:	David M. Brantzeg	
Assignor Signature: Name:	James J. Underwood	_ Date:
Assignor Signature: Name:	John S. Bowen	Date:
Assignor Signature: Name:	Roy T. Collins	_ Date:
Assignee Signature: Name:	Elvir Mujanovic, Vice President Finance as legal representative of:	Date: $12/17/2$ C
	MALTA INC. 210 Broadway, Suite 201 Cambridge, MA 02139 United States of America	

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RECORDED: 05/18/2022

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