PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5977260

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MAHAJAN SAGAR BHASKAR	12/29/2019
DHAFER J. ALMAKHLES	01/02/2020
UMASHANKAR SUBRAMANIAM	12/29/2019
SANJEEVIKUMAR PADMANABAN	12/30/2019
SAKTHIVEL RATHINASAMY	12/30/2019

RECEIVING PARTY DATA

Name:	PRINCE SULTAN UNIVERSITY	
Street Address:	P.O. BOX NO. 66833, RAFHA STREET	
City:	RIYADH	
State/Country:	SAUDI ARABIA	
Postal Code:	11586	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16798532

CORRESPONDENCE DATA

Fax Number: (703)413-2220

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:(703) 413-3000Email:ehasan@oblon.comCorrespondent Name:OBLON, ET AL.Address Line 1:1940 DUKE STREET

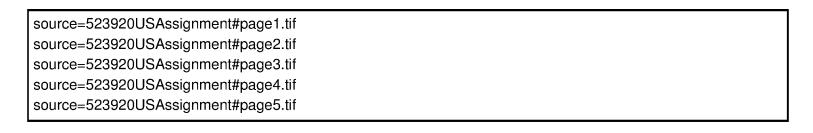
Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER: 523920US		
NAME OF SUBMITTER:	EMEL HASAN	
SIGNATURE:	/Emel Hasan/	
DATE SIGNED: 02/24/2020		
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 5

PATENT REEL: 051897 FRAME: 0470

505930542



Title of Invention	MICROGRID POWER SUPPLY SYSTI CONTROLLING METHOD	EM DC-DC CONVERTER AND		
As the below named inventor, I hereby declare that:				
This declaration 🗵	The attached application, or			
is directed to:	United States application or PCT international filed on	application number		
The above-identifie	The above-identified application was made or authorized to be made by me.			
I believe that I am t	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.			
(hereinafter referre Saudi Arabia 1158	6 is desirous of acquiring the entire right, title a	ss at: P.O. Box No. 66833, Rafha Street, Riyadh, and interest in and to said invention and in and to es and its territorial possessions and in any and all		
recognized, I, by the said invention in the claim priority und Arrangements from Patent which may	hese presents do sell, assign and transfer unto sa the United States and its territorial possessions a ter the terms of the International Convention on the aforesaid application) and the entire right	e consideration, the receipt of which is hereby aid ASSIGNEE, the full and exclusive right to the and in all foreign countries (including the right to a and other relevant International Treaties and t, title and interest in and to any and all Letters territorial possessions and in any and all foreign s, substitutions and renewals thereof.		
any and all foreign assignee of my ent (his) successors an	countries to issue any and all of said Letters ire right, title and interest in and to the same, for	e United States and its territorial possessions and Patent, when granted, to said ASSIGNEE as the or the sole use and behoof of said ASSIGNEE, its said Letters Patent may be granted, as fully and ent and sale not been made.		
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.				
	rledge that any willful false statement made in the ment of not more than five (5) years, or both.	nis declaration is punishable under 18 U.S.C. 1001		
LEGAL NAME OF	FINVENTOR			
Inventor: Mahaja	n Sagar BHASKAR	Date:29/ 12/ 2019		
Cionatura	CA CA .			

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

little of Invention	MICROGRID POWER SUPPLY SYSTEM DC-DC CONVERTER AND CONTROLLING METHOD		
As the below mame	As the below named inventor, I hereby declare that:		
This declaration	The attached application, or		
is directed to:	United States application or PCT international application number		
The above-identific	ed application was made or authorized to be made by me.		
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.		
WHEREAS. Prince Sultan University (bereinafter referred to as "ASSIGNEE") having places of business at: P.O. Box No. 66833. Rafha Street, Riyadh. Saudi Arabia 11586 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;			
NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby recognized, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.			
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignce of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.			
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.			
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
LEGAL NAME OF INVENTOR			
Inventor: <u>Dhafer</u>	J. ALMAKHLES Date: 2/1/2020		
Signature			

ÓBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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Title of Invention	MICROGRID POWER SUPPLY SYSTEM DC-DC CONVERTER AND CONTROLLING METHOD		
As the below name	d inventor, I hereby declare that:		
This declaration 🗵	The attached application, or		
is directed to:	United States application or PCT international application number filed on		
The above-identifie	ed application was made or authorized to be made by me.		
I believe that I am t	he original inventor or an original joint inventor of a claimed invention in the application.		
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NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby recognized, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.			
I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.			
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.			
	dedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.		
LEGAL NAME OF	FINVENTOR		
Inventor: Umasha	nnkar SUBRAMANIAM Date: 29.12.2019		
Signature:	S. Unitary Date:		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	MICROGRID POWER SUPPLY SYSTEM DC-DC CONVERTER AND CONTROLLING METHOD		
As the below named inventor, I hereby declare that:			
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is directed to:	United States application or PCT international application number filed on		
The above-identifie	ed application was made or authorized to be made by me.		
I believe that I am t	the original inventor or an original joint inventor of a claimed invention in the application.		
(hereinafter referre Saudi Arabia 1158	d to as "ASSIGNEE") having places of business at: P.O. Box No. 66833, Rafha Street, Riyadh. 6 is desirous of acquiring the entire right, title and interest in and to said invention and in and to that may be granted therefore in the United States and its territorial possessions and in any and all		
recognized, I, by the said invention in the claim priority und Arrangements from Patent which may	FORE, in consideration of good and valuable consideration, the receipt of which is hereby hese presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the ne United States and its territorial possessions and in all foreign countries (including the right to her the terms of the International Convention and other relevant International Treaties and in the aforesaid application) and the entire right, title and interest in and to any and all Letters be granted therefor in the United States and its territorial possessions and in any and all foreign d to any and all divisions, reissues, continuations, substitutions and renewals thereof.		
any and all foreign assignee of my enti (his) successors an	ize and request the Patent Office Officials in the United States and its territorial possessions and a countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the ire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its d assigns, to the full end of the term for which said Letters Patent may be granted, as fully and a would have been held by me had this Assignment and sale not been made.		
Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.			
	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 ment of not more than five (5) years, or both.		
LEGAL NAME OF	INVENTOR		
Inventor: Sanjeev	vikumar PADMANABAN Date: 30-12-2019		
Cianatura	- Comment		

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

ATTORNEYS AT LAW 1940 DUKE STREET ALEXANDRIA, VIRGINIA 22314

Title of Invention	MICROGRID POWER SUPP CONTROLLING METHOD	LY SYSTEM DC-DC CONVERTER AND
As the below name	d inventor, I hereby declare that	
This declaration 🖔	The attached application, or	*
is directed to:	United States application or PCT filed on	nternational application number
The above-identific	ed application was made or authorize	ed to be made by me.
I believe that I am t	he original inventor or an original je	out inventor of a claimed invention in the application.
(hereinafier referre Saudi Arabia 1158)	b is desirous of acquiring the entire	is of business at: P.O. Box No. 66833, Ratha Street, Riyadh, right, title and interest in and to said invention and in and to United States and its territorial possessions and in any and all
recognized. I, by the said invention in the claim priority and Arrangements from Patent which may be	hese presents do sell, assign and traite United States and its territorial poter the terms of the International the aforesaid application) and the be granted therefor in the United St	and valuable consideration, the receipt of which is hereby useful unto said ASSIGNEE, the full and exclusive right to the ossessions and in all foreign countries (including the right to Convention and other relevant International Treaties and entire right, title and interest in and to any and all Letters lates and its territorial possessions and in any and all foreign ontinuations, substitutions and renewals thereof.
any and all foreign assignce of my enti (his) successors and	countries to issue any and all of s fre right, title and interest in and to d assigns, to the full end of the terr	Ticials in the United States and its territorial possessions and aid Letters Patent, when granted, to said ASSIGNEE as the the same, for the sole use and behoof of said ASSIGNEE, its nofor which said Letters Patent may be granted, as fully and its Assignment and sale not been made.
Further, Lagree respecting said in continuation, substituall of said Letters possible to aid said	that I will communicate to said Assention, and testify in any legal tute, renewal and reissue application. Patent to be issued to said ASSIGNEE, its (his) successors a	SSIGNEE or its (his) representatives any facts known to me proceeding, sign all lawful papers, execute all divisional, his, execute all necessary assignment papers to cause any and NEE, make all rightful oaths, and, generally do everything and assigns, to obtain and enforce proper protection for said ions and in any and all foreign countries.
I hereby acknow by fine or imprison	dedge that any willful false statemen ment of not more than five (8) years	it made in this declaration is punishable under 18 U.S.C. 1001 , or both.
LEGAL NAME OF	INVENTOR	
Inventor: Sakthiv	el RATHINASAMY	Date: 30-12-2019
Signature: 1	2	

OBLON, McCLELLAND, MAIER & NEUSTADT, L.L.P.

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> PATENT REEL: 051897 FRAME: 0476

RECORDED: 02/24/2020