

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6397799

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MAHENDRA K. SUNKARA	12/13/2019
JUAN HE	12/13/2019
SIVAKUMAR VASIREDDY	12/13/2019
HUGO APOLO NAMBO SALGADO	05/15/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ADVANCED ENERGY MATERIALS, LLC
<b>Street Address:</b>	311 EAST LEE STREET
<b>City:</b>	LOUISVILLE
<b>State/Country:</b>	KENTUCKY
<b>Postal Code:</b>	40208
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16703817
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	502-265-0370
<b>Email:</b>	JLSPatentLaw@att.net
<b>Correspondent Name:</b>	JOAN L. SIMUNIC
<b>Address Line 1:</b>	P.O. BOX 443
<b>Address Line 4:</b>	LA GRANGE, KENTUCKY 40031-0443
<b>ATTORNEY DOCKET NUMBER:</b>	US16703817
<b>NAME OF SUBMITTER:</b>	JOAN SIMUNIC
<b>SIGNATURE:</b>	/Joan Simunic/
<b>DATE SIGNED:</b>	11/12/2020
<b>Total Attachments: 4</b>	
source=16703817AssignmentSunkara#page1.tif	
source=16703817AssignmentHe#page1.tif	
source=16703817AssignmentVasireddy#page1.tif	



ASSIGNMENT OF APPLICATION

Application Number: 16703817

Filing date: 04-DEC-2019

First Named Inventor: Sunkara

Title: Catalyst Compositions for Conversion of Furfural to 2-Methylfuran and Their Applications

Whereas, I, Mahendra K. Sunkara of Louisville, KY, hereafter referred to as Assignor, have invented certain new and useful improvements in Catalyst Compositions for Conversion of Furfural to 2-Methylfuran and Their Applications for which an application for a United States Patent was filed on 04-DEC-2019, Application Number US 16703817.

Whereas, Advanced Energy Materials, LLC of Louisville, KY herein referred to "Assignee" whose post office address is 311 East Lee St., Louisville, KY 40202 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$1.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, the Assignor, 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(s)) 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 Assignees as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said Assignees, their 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 Assignees or their 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 Assignees, make all rightful oaths, and, generally do everything possible to aid said Assignees, their 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 grant the agent or legal representative of the Assignees, the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the designated patent office for recordation of this document.

Executed this 13<sup>th</sup> day of December, 2019, at Louisville, KY

M. K. Sunkara  
(Signature)

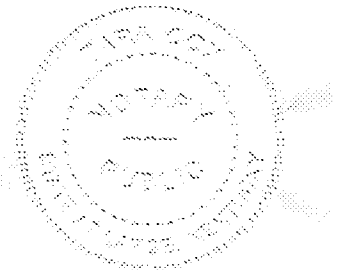
State of Kentucky  
County of Jefferson

Before me personally appeared said Mahendra Sunkara  
and acknowledged the foregoing instrument to be his free act and deed this 13<sup>th</sup>  
day of December, 2019.

Seal

Tara Cox  
(Notary Public)

TARA COX  
Notary Public  
State at Large  
Kentucky  
My Commission Expires Nov. 07 2020



ASSIGNMENT OF APPLICATION

Application Number: 16703817

Filing date: 04-DEC-2019

First Named Inventor: Sunkara

Title: Catalyst Compositions for Conversion of Furfural to 2-Methylfuran and Their Applications

Whereas I, Juan He of Louisville, KY, hereafter referred to as Assignor, have invented certain new and useful improvements in Catalyst Compositions for Conversion of Furfural to 2-Methylfuran and Their Applications for which an application for a United States Patent was filed on 04-DEC-2019, Application Number US 16703817.

Whereas, Advanced Energy Materials, LLC of Louisville, KY herein referred to "Assignee" whose post office address is 311 East Lee St., Louisville, KY 40202 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$1.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I the Assignor, 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(s)) 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.

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Further, I agree that I will communicate to said Assignees or their 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 Assignees, make all rightful oaths, and generally do everything possible to aid said Assignees, their 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.

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Executed this 13 day of December, 2019, at Louisville, KY

Juan He

(Signature)

State of Kentucky )

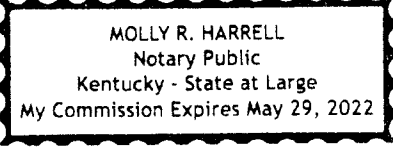
County of Jefferson )

Before me personally appeared said Juan He and acknowledged the foregoing instrument to be his free act and deed this 13 day of December, 20 19.

Seal

Molly R. Harrell

(Notary Public)



ASSIGNMENT OF APPLICATION

Application Number: 16703817

Filing date: 04-DEC-2019

First Named Inventor: Sunkara

Title: Catalyst Compositions for Conversion of Furfural to 2-Methylfuran and Their Applications

Whereas I, Sivakumar Vasireddy of Louisville, KY, hereafter referred to as Assignor, have invented certain new and useful improvements in Catalyst Compositions for Conversion of Furfural to 2-Methylfuran and Their Applications for which an application for a United States Patent was filed on 04-DEC-2019, Application Number US 16703817.

Whereas, Advanced Energy Materials, LLC of Louisville, KY herein referred to "Assignee" whose post office address is 311 East Lee St., Louisville, KY 40202 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$1.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, the Assignor, 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(s)) 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.

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Executed this 13 day of December, 2019, at Louisville, KY

*Sivakumar Vasireddy*

(Signature)

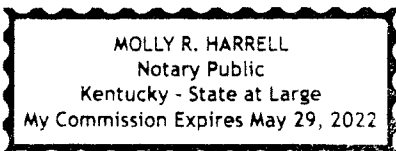
State of Kentucky )

County of Jefferson )

Before me personally appeared said Sivakumar Vasireddy and acknowledged the foregoing instrument to be his free act and deed this 13 day of December, 2019.

Seal

*Molly R. Harrell*  
(Notary Public)



ASSIGNMENT OF APPLICATION

Application Number: 16703817

Filing date: 04-DEC-2019

First Named Inventor: Sunkara

Title: Catalyst Compositions for Conversion of Furfural to 2-Methylfuran and Their Applications

Whereas I, Hugo Apolo Nambo Salgado of Louisville, KY, hereafter referred to as Assignor, have invented certain new and useful improvements in Catalyst Compositions for Conversion of Furfural to 2-Methylfuran and Their Applications for which an application for a United States Patent was filed on 04-DEC-2019, Application Number US 16703817.

Whereas, Advanced Energy Materials, LLC of Louisville, KY herein referred to "Assignee" whose post office address is 311 East Lee St., Louisville, KY 40202 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$1.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, the Assignor, 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(s)) 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 Assignees as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said Assignees, their 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.

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Executed this \_\_\_\_\_ day of December, 2019, at Louisville, KY

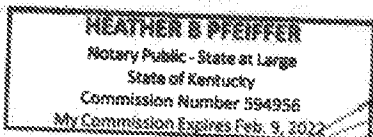
(Signature)

State of Kentucky  
County of Schroeder

Before me personally appeared said Hugo Apolo Nambo Salgado  
and acknowledged the foregoing instrument to be his free act and deed this May  
day of 15, 2020.

Seal

(Notary Public)



PATENT

RECORDED: 11/12/2020

REEL: 054347 FRAME: 0959