505702913 10/02/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5749723

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------------|----------------|
| ERIN MARIE BRODERICK | 09/26/2019 |
| HAYIM ABREVAYA | 09/26/2019 |
| PAUL T BARGER | 09/26/2019 |
| ALAKANANDA BHATTACHARYYA | 09/27/2019 |

RECEIVING PARTY DATA

| Name: | UOP LLC |
|-----------------|------------------------|
| Street Address: | 25 EAST ALGONQUIN ROAD |
| City: | DES PLAINES |
| State/Country: | ILLINOIS |
| Postal Code: | 60017 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16586942 |

CORRESPONDENCE DATA

Fax Number:

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: 872-810-2994

Email: mark.goldberg@pm-ip.com

Correspondent Name: HONEYWELL/PASCHALL MAAS PATENT SERVICES

Address Line 1: 115 TABOR ROAD

Address Line 2: P O BOX 377 MAIL STOP 4D3

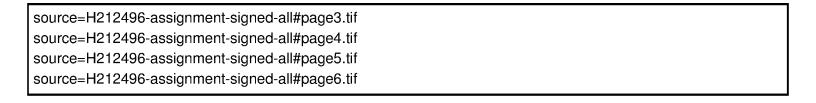
Address Line 4: MORRIS PLAINS, NEW JERSEY 07950

| ATTORNEY DOCKET NUMBER: | H212496-US |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | MARK GOLDBERG |
| SIGNATURE: | /Mark Goldberg/ |
| DATE SIGNED: | 10/02/2019 |

Total Attachments: 6

source=H212496-assignment-signed-all#page1.tif source=H212496-assignment-signed-all#page2.tif

PATENT 505702913 REEL: 050600 FRAME: 0459



ASSIGNMENT

Page 2002

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as ASSIGNOR) has invented new and useful improvements in

APROCESS FOR THE SYNTHESIS OF AROMATIC DICARBOXYLIC ACIDS

for which application for patent in the United States

| ▓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | ΰ | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

AND WHEREAS the Assigned Property shall mean (i) the above identified United States application for patient (the Application), (ii) all inventions disclosed in the Application, (iii) any and all applications for patient throughout the world directed to the subject matter of the Application (iv) the right of priority arising from the Application or from such other applications, under the Panis Convention for the Protection of Industrial Property or under relevant laws theaties, conventions or bilateral and multilaters agreements in any jurisdiction, (v) any and all patients throughout the world resulting from the Application of such other application(s) for patients, and (vi) any and all claims against third parties in connection with any of the rights assigned by this Agreement.

AND WHEREAS, UOP LLC, a Delaware Limited Liability Company having a place of business at 25 East Algorithm Road, Des Plaines, IL 69017-5017, its successors and assigns (hereinafter individually and collectively reterred to as "ASSIGNEE"), is desirous of acquiring ASSIGNOR's entire right, title, and interest in and to and resulting from said Assigned Property and in general all property rights included therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are bereby acknowledged. ASSIGNOR does hereby inevocably and unconditionally assign and transfer unto ASSIGNEE ASSIGNOR's entire right, title and interest in and to and resulting from the Assigned Property and hereby authorizes and requests the Commissioner of Patents to issue said patent to ASSIGNEE for the sole use and benefit of ASSIGNEE, ASSIGNEE hereby accepts such transfer and assignment.

AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to travel on each page of this instrument (where indicated) the filing date and application number of said Application when known.

AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNOR and without further remoneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of segal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filling and granting of patent rights in the Assigned Property. Property the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property.

This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs executors and administrators, for the uses and purposes above set forth and effected to and shall increits the benefit of ASSIGNEE or anyone it may properly designate.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

This assignment shall be construed, governed interpreted and applied in accordance with the laws of

| ASSIGNMENT H21(2496-US the State of Deservoire, United States of America | Page 2 of 3 |
|---|--|
| EXECUTED on behalf of ASSIGNEE and effective as of the signature at below. | ie latest date of the ASSIGNOR |
| Addit Konnet | |
| Deputy Chief IP Counsel UOP LLC | |
| EXECUTED as of the date(s) set form below on behalf of the | he ASSIGNOR |
| Esn Mane Broderick | Date: |
| Hayım Abrevaya | Date |
| Paul T. Barger | Date: |
| Alakaranda Bhattachanyya | Date: Stylember 27, 2017 |
| | |
| | |
| | |
| | |
| | |
| | The Control of the Co |
| | |

Honeywell Docket N H212496-US

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

A PROCESS FOR THE SYNTHESIS OF AROMATIC DICARBOXYLIC ACIDS

for which application for patent in the United States:

| x _ has been exec | cuted on even d | ate herewith; | | | |
|-------------------|-----------------|---------------|------------|-----|--|
| was executed | | | ; | | |
| was filed on | | and assigned | U.S. Appl. | No. | |
| was filed on | | and assigned | | | |

AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified United States application for patent (the "Application"), (ii) all inventions disclosed in the Application, (iii) any and all applications for patent throughout the world directed to the subject matter of the Application, (iv) the right of priority arising from the Application or from such other applications, under the Paris Convention for the Protection of Industrial Property or under relevant laws, treaties, conventions or bilateral and multilateral agreements, in any jurisdiction, (v) any and all patents throughout the world resulting from the Application or such other application(s) for patents, and (vi) any and all claims against third parties in connection with any of the rights assigned by this Agreement;

AND WHEREAS, UOP LLC, a Delaware Limited Liability Company having a place of business at 25 East Algonquin Road, Des Plaines, IL 60017-5017, its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring ASSIGNOR's entire right, title, and interest in and to and resulting from said Assigned Property and in general all property rights included therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE ASSIGNOR's entire right, title and interest in and to and resulting from the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said patent to ASSIGNEE for the sole use and benefit of ASSIGNEE; ASSIGNEE hereby accepts such transfer and assignment;

AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to insert on each page of this instrument (where indicated) the filing date and application number of said Application when known;

AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filing and granting of patent rights in the Assigned Property, the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property.

This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE or anyone it may properly designate.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

This assignment shall be construed, governed, interpreted and applied in accordance with the laws of the State of Delaware, United States of America.

(Rev.03/20/2012)

EXECUTED on behalf of ASSIGNEE and effective as of the latest date of the ASSIGNOR signature(s) below:

Deputy Chief IP Counsel UOP LLC

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:

| Fin Mari | e B | | e.M | Date: _ | 09/0 | 16/19 |
|--|-----|--------------------------|-----------------|---------|------|---------|
| Erin Marie Broderick | | ner grunn grunn der eine | •••••• <u>•</u> | | | |
| | | | | | | |
| | | | | | | |
| | | <u>Kajara 1</u> | News; | Date: _ | | |
| Hayim Abrevaya | | gradient in the | | | | 48 - 19 |
| | | | | | | |
| | | | | Date: | | |
| Paul T. Barger | | 100 | | | | |
| and the second s | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | Date: | | |
| Alakananda Bhattacharyy | a | | | | | |

(Rev.03/20/2012)

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") has invented new and useful improvements in:

A PROCESS FOR THE SYNTHESIS OF AROMATIC DICARBOXYLIC ACIDS

for which application for patent in the United States:

| _x has been executed or | a even date herewith; |
|-------------------------|-----------------------------|
| was executed on | ; |
| was filed on | and assigned U.S. Appl. No; |
| was filed on | and assigned U.S. Appl. No; |
| | |

AND WHEREAS, the "Assigned Property" shall mean (i) the above-identified United States application for patent (the "Application"), (ii) all inventions disclosed in the Application, (iii) any and all applications for patent throughout the world directed to the subject matter of the Application, (iv) the right of priority arising from the Application or from such other applications, under the Paris Convention for the Protection of Industrial Property or under relevant laws, treaties, conventions or bilateral and multilateral agreements, in any jurisdiction, (v) any and all patents throughout the world resulting from the Application or such other application(s) for patents, and (vi) any and all claims against third parties in connection with any of the rights assigned by this Agreement;

AND WHEREAS, UOP LLC, a Delaware Limited Liability Company having a place of business at 25 East Algonquin Road, Des Plaines, IL 60017-5017, its successors and assigns (hereinafter individually and collectively referred to as "ASSIGNEE"), is desirous of acquiring ASSIGNOR's entire right, title, and interest in and to and resulting from said Assigned Property and in general all property rights included therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby irrevocably and unconditionally assign and transfer unto ASSIGNEE ASSIGNOR's entire right, title and interest in and to and resulting from the Assigned Property, and hereby authorizes and requests the Commissioner of Patents to issue said patent to ASSIGNEE for the sole use and benefit of ASSIGNEE; ASSIGNEE hereby accepts such transfer and assignment;

AND ASSIGNOR FURTHERMORE authorizes ASSIGNEE, or anyone it may properly designate, to insert on each page of this instrument (where indicated) the filing date and application number of said Application when known;

AND ASSIGNOR AGREES, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, but at no expense to ASSIGNOR, that ASSIGNOR or ASSIGNOR'S heirs, executors, or administrators will provide all reasonable assistance to obtain, maintain, and assert the fullest measure of legal protection that ASSIGNEE desires to obtain or assert for the Assigned Property, including executing any and all papers desired by ASSIGNEE for the filing and granting of patent rights in the Assigned Property, the perfecting of title in ASSIGNEE, and in enforcing any rights in the Assigned Property.

This instrument is executed by, and shall be binding upon ASSIGNOR, and ASSIGNOR's heirs, executors and administrators, for the uses and purposes above set forth and referred to and shall inure to the benefit of ASSIGNEE or anyone it may properly designate.

If any provision of this assignment is held by any court to be unenforceable, such provision shall be interpreted to accomplish the objectives of the original provision to the fullest extent allowed by law and the remainder of this assignment shall remain in full force and effect.

This assignment shall be construed, governed, interpreted and applied in accordance with the laws of the State of Delaware, United States of America.

(Rev.03/20/2012)

Asklyg E. Konano

Alakananda Bhattacharyya

EXECUTED on behalf of ASSIGNEE and effective as of the latest date of the ASSIGNOR signature(s) below:

Deputy Chief IP Counsel
UOP LLC

EXECUTED as of the date(s) set forth below on behalf of the ASSIGNOR:

Date:

Dat

(Rev.03/20/2012)