

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3191388

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the INCORRECT NAME OF ASSIGNEE previously recorded on Reel 034440 Frame 0598. Assignor(s) hereby confirms the CORRECT NAME OF ASSIGNEE IS MORPHO DETECTION, LLC..

## CONVEYING PARTY DATA

Name	Execution Date
JACK A. SYAGE	12/08/2014

## RECEIVING PARTY DATA

<b>Name:</b>	MORPHO DETECTION, LLC
<b>Street Address:</b>	7151 GATEWAY BOULEVARD
<b>City:</b>	NEWARK
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94560

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14564746

## CORRESPONDENCE DATA

Fax Number: (314)612-2307

*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: 314-621-5070

Email: USpatents@armstrongteasdale.com

Correspondent Name: PATENT DOCKET DEPARTMENT ARMSTRONG TEASD

Address Line 1: 7700 FORSYTH BOULEVARD

Address Line 2: SUITE 1800

Address Line 4: ST. LOUIS, MISSOURI 63105

<b>ATTORNEY DOCKET NUMBER:</b>	IT0003US (30017-900)
<b>NAME OF SUBMITTER:</b>	RICHARD B. THOMAS
<b>SIGNATURE:</b>	/Richard B. Thomas/
<b>DATE SIGNED:</b>	01/21/2015

## Total Attachments: 15

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### Electronic Patent Assignment System

## Confirmation Receipt

Your assignment has been received by the USPTO.  
The coversheet of the assignment is displayed below:

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JACK A. SYAGE	12/08/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MORPHO DETECTION, INC.
<b>Street Address:</b>	7151 GATEWAY BOULEVARD
<b>City:</b>	NEWARK
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94560
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14564746
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(314)612-2307

<b>Phone:</b>	314-621-5070
<b>Email:</b>	USpatents@armstrongteasdale.com
<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>Correspondent Name:</b>	PATENT DOCKET DEPARTMENT ARMSTRONG TEASD
<b>Address Line 1:</b>	7700 FORSYTH BOULEVARD
<b>Address Line 2:</b>	SUITE 1800
<b>Address Line 4:</b>	ST. LOUIS, MISSOURI 63105
<b>ATTORNEY DOCKET NUMBER:</b>	IT0003US (30017-900)
<b>NAME OF SUBMITTER:</b>	RICHARD B. THOMAS
<b>Signature:</b>	/Richard B. Thomas/
<b>Date:</b>	12/09/2014
<b>Total Attachments: 6</b> source=IT0003US_Dec_and_Assignment_09DEC2014-19330208#page1.tif source=IT0003US_Dec_and_Assignment_09DEC2014-19330208#page2.tif source=IT0003US_Dec_and_Assignment_09DEC2014-19330208#page3.tif source=IT0003US_Dec_and_Assignment_09DEC2014-19330208#page4.tif source=IT0003US_Dec_and_Assignment_09DEC2014-19330208#page5.tif source=IT0003US_Dec_and_Assignment_09DEC2014-19330208#page6.tif	
<b>RECEIPT INFORMATION</b>  <b>EPAS ID:</b> PAT3139225 <b>Receipt Date:</b> 12/09/2014	

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OUR CLIENT AND MATTER REF. NO.: 30017-900  
CLIENT REF. NO.: IT0003US

First Named Inventor: Jack A. Syage  
Application Number:  
Filing Date:  
Art Unit:  
Confirmation No.

**DECLARATION AND ASSIGNMENT FOR  
UTILITY OR DESIGN APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and country of residence are as stated below next to my name.

I believe I am the original and sole inventor (if only one name is listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SYSTEMS FOR SEPARATING IONS AND NEUTRALS AND METHODS OF OPERATING THE  
SAME**

the specification of which: (check one)

is attached hereto

was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_

We hereby authorize and request our attorneys and agents, and the assignee or its delegated attorneys or agents, to insert above the application number and filing date of the application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims and any claims amended by any amendment made prior to the date of this Declaration.

I acknowledge my duty to disclose all information which is material to patentability of this application in accordance with 37 CFR §1.56.

The above-identified application was made or was authorized to be made by me.

**ASSIGNMENT**

WHEREAS, the undersigned have invented improvements described in the above-identified application.

LLC Initial and date JAS 1/16/15

AND, WHEREAS, MORPHO DETECTION, INC. of 7151 Gateway Boulevard, Newark, California 94560, a ~~corporation~~ of the State of Delaware (hereinafter referred to as "ASSIGNEE") is desirous of acquiring certain rights thereunder;

limited liability company

Initial and date JAS 1/16/15

1

OUR CLIENT AND MATTER REF. NO.: 30017-900  
CLIENT REF. NO.: IT0003US

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, I have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said United States application, any other United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said United States application or in whole or in part on said invention, any foreign applications based in whole or in part on any of the aforesaid United States applications or in whole or in part on said invention, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had no sale and assignment of said interest been made;

AND I hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND I hereby agree for myself and for my heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND I hereby covenant for myself and my legal representatives that I have granted no right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed my right, title and interest in said invention had not been otherwise encumbered, and that I have not executed and will not execute any instrument in conflict herewith.

#### PRIORITY CLAIM

I hereby claim foreign priority benefits under 35 U.S.C. §119 (a)-(d) or (f) or 365(b) of any foreign application(s) for patent or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below, and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

OUR CLIENT AND MATTER REF. NO.: 30017-900  
 CLIENT REF. NO.: IT0003US

Priority Claimed

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED	CERTIFIED COPY ATTACHED
				___Yes ___No
				___Yes ___No

**CLAIM FOR BENEFIT OF PROVISIONAL APPLICATION(S)**

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

APPLICATION NUMBER(S)	FILING DATE (day, month, year)

**CLAIM FOR BENEFIT OF EARLIER U.S. APPLICATION(S)  
 UNDER 35 U.S.C. §120**

(complete this part only if this is a divisional, continuation or CIP application)

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or 365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

U.S. PARENT APPLICATION OR PCT PARENT NUMBER	PARENT FILING DATE (day, month, year)	STATUS (patent and number, pending, abandoned)

OUR CLIENT AND MATTER REF. NO.: 30017-900  
CLIENT REF. NO.: IT0003US

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

-----



OUR CLIENT AND MATTER REF. NO.: 30017-900  
CLIENT REF. NO.: IT0003US

Full name of sole or first inventor

Jack A. Syage

Inventor's signature

*Jack A. Syage*

Date

12/8/14

Residence

Corona del Mar, California

Country of  
Residence

US

Post Office address

7151 Gateway Boulevard

Newark, California 94560

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF WITNESSES

Witnessed by:

*[Signature]*  
Signature

Date:

12/8/14

Ha Phi  
Printed Name of Witness

Witnessed by:

*[Signature]*  
Signature

Date:

12-8-14

CHRIS CE  
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

\_\_\_\_\_  
Jack A. Syage

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Jack A. Syage, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

### EXPLANATION OF ACKNOWLEDGEMENT

By signing the declaration, you acknowledge your duty to disclose to the U.S. Patent and Trademark Office information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, 1.56. Material information includes any information concerning whether:

The subject matter of this application was known or used by others in the United States before your invention thereof; or

The subject matter of this application was patented or described in any printed publication in any country before your invention thereof or more than one year prior to the date of this application; or

The subject matter of this application was in public use, offered for sale or on sale in the United States more than one year prior to the filing date of this application; or

The subject matter of this application was first patented or made the subject of an inventor's certificate issued in any country foreign to the United States as an application filed by you or your representatives or assigns more than twelve months prior to the date of this application; or

any application for patent or inventor's certificate on the subject matter of this application has been filed by your representatives or assigns in any foreign country.

In addition, you must advise us of the closest prior art (including your own patents and publications) of which you are aware so that we may bring it to the attention of the U.S. Patent and Trademark Office.

This duty to disclose material information continues after the application is filed. During the pendency of this patent application, each person substantially involved in the preparation or prosecution of this patent application, including each inventor, has a duty to disclose to the U.S. Patent and Trademark Office all known information which would be material to patentability. Failure to meet this duty can result in an unenforceable and/or invalid patent.

Any of the above information should be brought to the attention of the U.S. Patent and Trademark Office within three months of filing of this application, or within three months of acquiring such information, whichever is later. Accordingly, please promptly advise us of any of the above information, or any other information that may be material to patentability and is either presently known to you or later becomes known to you during the pendency of this application.

First Named Inventor: Jack A. Syage  
Application Number:  
Filing Date:  
Art Unit  
Confirmation No.

**DECLARATION AND ASSIGNMENT FOR  
UTILITY OR DESIGN APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and country of residence are as stated below next to my name.

I believe I am the original and sole inventor (if only one name is listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**SYSTEMS FOR SEPARATING IONS AND NEUTRALS AND METHODS OF OPERATING THE  
SAME**

the specification of which: (check one)

is attached hereto

was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_

We hereby authorize and request our attorneys and agents, and the assignee or its delegated attorneys or agents, to insert above the application number and filing date of the application when known.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims and any claims amended by any amendment made prior to the date of this Declaration.

I acknowledge my duty to disclose all information which is material to patentability of this application in accordance with 37 CFR §1.56.

The above-identified application was made or was authorized to be made by me.

**ASSIGNMENT**

WHEREAS, the undersigned have invented improvements described in the above-identified application.

AND, WHEREAS, MORPHO DETECTION, INC. of 7151 Gateway Boulevard, Newark, California 94560, a corporation of the State of Delaware (hereinafter referred to as "ASSIGNEE") is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, I have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said United States application, any other United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said United States application or in whole or in part on said invention, any foreign applications based in whole or in part on any of the aforesaid United States applications or in whole or in part on said invention, and any and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me had no sale and assignment of said interest been made;

AND I hereby authorize and request the Commissioner of Patents of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND I hereby agree for myself and for my heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND I hereby covenant for myself and my legal representatives that I have granted no right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed my right, title and interest in said invention had not been otherwise encumbered, and that I have not executed and will not execute any instrument in conflict herewith.

#### PRIORITY CLAIM

I hereby claim foreign priority benefits under 35 U.S.C. §119 (a)-(d) or (f) or 365(b) of any foreign application(s) for patent or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below, and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

Priority Claimed

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY NOT CLAIMED	CERTIFIED COPY ATTACHED
				___ Yes ___ No
				___ Yes ___ No

**CLAIM FOR BENEFIT OF PROVISIONAL APPLICATION(S)**

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

APPLICATION NUMBER(S)	FILING DATE (day, month, year)

**CLAIM FOR BENEFIT OF EARLIER U.S. APPLICATION(S)  
 UNDER 35 U.S.C. §120**

(complete this part only if this is a divisional, continuation or CIP application)

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or 365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

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OUR CLIENT AND MATTER REF. NO.: 30017-900  
CLIENT REF. NO.: IT0003US

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

-----

Full name of sole or first inventor

Jack A. Syage

Inventor's signature

*Jack A. Syage*

Date

12/8/14

Residence

Corona del Mar, California

Country of  
Residence

US

Post Office address

7151 Gateway Boulevard

Newark, California 94560

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF WITNESSES

Witnessed by:

*Ha Phi*  
Signature

Date:

12/8/14

Printed Name of Witness

Witnessed by:

*Chris Le*  
Signature

Date:

12-8-14

Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

Jack A. Syage

Date:

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Jack A. Syage, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

\_\_\_\_\_  
(Notary Public)

### EXPLANATION OF ACKNOWLEDGEMENT

By signing the declaration, you acknowledge your duty to disclose to the U.S. Patent and Trademark Office information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, 1.56. Material information includes any information concerning whether:

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The subject matter of this application was first patented or made the subject of an inventor's certificate issued in any country foreign to the United States as an application filed by you or your representatives or assigns more than twelve months prior to the date of this application; or

any application for patent or inventor's certificate on the subject matter of this application has been filed by your representatives or assigns in any foreign country.

**In addition, you must advise us of the closest prior art (including your own patents and publications) of which you are aware so that we may bring it to the attention of the U.S. Patent and Trademark Office.**

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Any of the above information should be brought to the attention of the U.S. Patent and Trademark Office within three months of filing of this application, or within three months of acquiring such information, whichever is later. Accordingly, please promptly advise us of any of the above information, or any other information that may be material to patentability and is either presently known to you or later becomes known to you during the pendency of this application.