

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Wei-Youh Kuu</td> <td>04/09/2012</td> </tr> <tr> <td>Mark J. Doty</td> <td>04/09/2012</td> </tr> <tr> <td>William S. Hurst</td> <td>04/09/2012</td> </tr> <tr> <td>Christine L. Rebbeck</td> <td>04/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Wei-Youh Kuu	04/09/2012	Mark J. Doty	04/09/2012	William S. Hurst	04/09/2012	Christine L. Rebbeck	04/05/2012
Name	Execution Date										
Wei-Youh Kuu	04/09/2012										
Mark J. Doty	04/09/2012										
William S. Hurst	04/09/2012										
Christine L. Rebbeck	04/05/2012										
RECEIVING PARTY DATA											
Name:	Baxter International Inc.										
Street Address:	One Baxter Parkway										
City:	Deerfield										
State/Country:	ILLINOIS										
Postal Code:	60015										
Name:	Baxter Healthcare S.A.										
Street Address:	Thurgauerstrasse 130										
City:	Glattpark (Opfikon)										
State/Country:	SWITZERLAND										
Postal Code:	8152										
PROPERTY NUMBERS Total: 1											
Property Type	Number										
Application Number:	13432498										
CORRESPONDENCE DATA											
Fax Number:	(312)474-0448										
Email:	anagelberg@marshallip.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	Marshall, Gerstein & Borun LLP										
Address Line 1:	233 South Wacker Drive										

OP \$40.00 13432498

Address Line 2: Suite 6300
Address Line 4: Chicago, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	31203/45463B
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NAME OF SUBMITTER:	Audrey Nagelberg
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Total Attachments: 3 source=45463B_US_assn#page1.tif source=45463B_US_assn#page2.tif source=45463B_US_assn#page3.tif

**ASSIGNMENT
(Joint Inventor)**

Serial No. 13/432,498

Filed: March 28, 2012

Attorney Docket No. P5624USAC1
(31203/45463B)

For good and valuable considerations, the receipt and sufficiency whereof are hereby acknowledged, we hereby assign to **BAXTER INTERNATIONAL INC.**, a corporation of Delaware, having a principal place of business at Deerfield, Illinois, its successors, legal representatives and assigns, and to **BAXTER HEALTHCARE S.A.**, a corporation of Switzerland, having a principal place of business at Glattpark (Opfikon), Switzerland, its successors, legal representatives and assigns, (hereinafter referred to as "assignee") the entire right, title and interest throughout the world, to the extent not previously assigned to assignee, in our invention or improvements in

OPTIMIZATION OF NUCLEATION AND CRYSTALLIZATION FOR LYOPHILIZATION USING GAP FREEZING

and, effective as of the date of filing, in the above listed application(s) for Letters Patent therefor, executed by each of us individually, and any and all other patent applications in any and all countries which have been or may hereafter be filed, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of any country which may be obtained on any of the said applications, and in any reissue or extension thereof and any applications that claim priority thereto, including any regional and national stage applications.

We hereby authorize and request the patent offices of all countries to issue to the said assignee all patents that may issue on said invention or improvements. We hereby authorize and request the attorneys of record in said application to insert in this assignment the date and serial number and docket number of said applications when officially known.

We warrant ourselves to be the owners of the interest herein assigned and to have the right to make this assignment; and further warrant that there are no outstanding prior assignments, licenses, or other rights to any person or entity other than the assignee in the interest herein assigned.

For said considerations we hereby agree, upon the request and at the expense of said assignee, its successors, legal representatives and assigns, to execute any and all divisional, continuation, and renewal applications for said invention or improvements, and any necessary oath or supplemental oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, including any regional and national stage applications that claim priority thereto, that said assignee, its successors, legal representatives and assigns may deem necessary or expedient, and for the said considerations we further agree, upon the request of said assignee, its successors, legal representatives and assigns, in the event of said application or any continuation or division thereof, or Letters Patent issued thereon, or any reissue or application for the reissue thereof becoming involved in interference, to cooperate to the best of our ability with said assignee, its successors, legal representatives and assigns in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof.

We further agree to perform, upon such request, any and all affirmative acts, including but not limited to execution of any and all documents deemed necessary or expedient by the said assignee or its successors, legal representatives or assigns, to obtain Letters Patent, and vest all rights therein hereby conveyed in the said assignee, its successors, legal representatives and assigns whereby said Letters Patent will be held and enjoyed by the said assignee, its successors, legal representatives and assigns to the end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made, and for the said considerations we hereby also assign to said assignee, its successors, legal representatives and assigns the entire right, title and interest in said invention or improvements for any and all foreign countries and the right of priority for patent and utility model applications in all countries arising under any applicable international convention for the protection of industrial property and/or any internal priority legislation of such countries, and we further agree upon the request of said assignee, its successors, legal representatives and assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said assignee.

WITNESS our hand and seal.

**Signature Sheet
(Joint Inventor)**

Serial No. 13/432,498

Filed: March 28, 2012

Attorney Docket No. P5624USAC1
(31203/45463B)

OPTIMIZATION OF NUCLEATION AND CRYSTALLIZATION FOR LYOPHILIZATION USING GAP FREEZING

Inventor Name: Wei-Youh Kuu

Inventor Name: Mark J. Doty

Date 4/9/2012

Date 4/9/12

Signature *Wei Youh Kuu*

Signature *Mark J. Doty*

State of Illinois

State of Illinois

County of Lake

County of Lake

On 4-9-2012 before me,

On 4-9-2012 before me,

Laurene M. Lerche (Notary Public),

Laurene M. Lerche (Notary Public),

personally appeared Wei-Youh Kuu, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

personally appeared Mark J. Doty, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

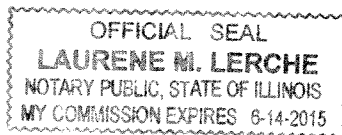
WITNESS my hand and official seal.

WITNESS my hand and official seal.

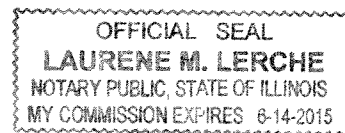
Notary Signature *Laurene M. Lerche*

Notary Signature *Laurene M. Lerche*

(Seal)



(Seal)



**Signature Sheet
(Joint Inventor)**

Serial No. 13/432,498

Filed: March 28, 2012

Attorney Docket No. P5624USAC1
(31203/45463B)

OPTIMIZATION OF NUCLEATION AND CRYSTALLIZATION FOR LYOPHILIZATION USING GAP FREEZING

Inventor Name: William S. Hurst

Inventor Name: Christine L. Rebbeck

Date April 9, 2012

Date 4/5/12

Signature *William S. Hurst*

Signature *Christine L. Rebbeck*

State of Illinois

State of IL

County of Lake

County of Lake

On April 9, 2012 before me,

On April 5, 2012 before me,

Laurene M. Lerche (Notary Public),

Laurene M. Lerche (Notary Public),

personally appeared William S. Hurst, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

personally appeared Christine L. Rebbeck, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

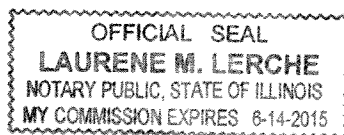
WITNESS my hand and official seal.

WITNESS my hand and official seal.

Notary Signature *Laurene M. Lerche*

Notary Signature *Laurene M. Lerche*

(Seal)



(Seal)

