

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Youzhi Li</td> <td>12/02/2011</td> </tr> <tr> <td>Bo Chen</td> <td>12/02/2011</td> </tr> <tr> <td>Lockett Wood</td> <td>12/05/2011</td> </tr> <tr> <td>Ulf Borg</td> <td>12/16/2011</td> </tr> </tbody> </table>		Name	Execution Date	Youzhi Li	12/02/2011	Bo Chen	12/02/2011	Lockett Wood	12/05/2011	Ulf Borg	12/16/2011
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Youzhi Li	12/02/2011										
Bo Chen	12/02/2011										
Lockett Wood	12/05/2011										
Ulf Borg	12/16/2011										
RECEIVING PARTY DATA											
Name:	Nellcor Puritan Bennett LLC										
Street Address:	6135 Gunbarrel Avenue										
City:	Boulder										
State/Country:	COLORADO										
Postal Code:	80301										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13310849</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13310849						
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Application Number:	13310849										
CORRESPONDENCE DATA											
Fax Number:	(303)305-2224										
Phone:	303-305-2400										
Email:	ip.legal@covidien.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:	Nellcor Puritan Bennett LLC										
Address Line 1:	6135 Gunbarrel Avenue										
Address Line 2:	IP Legal										
Address Line 4:	Boulder, COLORADO 80301										
ATTORNEY DOCKET NUMBER:	H-RM-02416										
NAME OF SUBMITTER:	Sean O. Christofferson										

CH \$40.00 13310849

Total Attachments: 4

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ASSIGNMENT

WHEREAS, I (we), the undersigned

1. Youzhi Li of Longmont CO USA;
2. Bo Chen of Louisville CO USA;
3. Lockett Wood of Lyons CO USA;
4. Ulf Borg of Longmont CO USA,

(hereinafter, individually referred to as "ASSIGNOR" and collectively referred to "ASSIGNORS") am (are) inventor(s) of the subject matter which is claimed and for which a patent is sought based on the patent application entitled:

**METHODS AND SYSTEMS FOR PHOTOACOUSTIC MONITORING
USING INDICATOR DILUTION**

and which may be further identified below (hereinafter, the "Patent Application").

NOW THEREFORE, I (we), the ASSIGNOR(S), in consideration of my (our) past and/or present relationship with the ASSIGNEE (defined below) or an affiliate thereof, and for other good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, do(es) hereby:

SELL, ASSIGN AND TRANSFER to **Nellcor Puritan Bennett LLC** (hereinafter, the "ASSIGNEE"), a legal entity of the State of Delaware, having a place of business at **6135 Gunbarrel Avenue, Boulder, Colorado 80301**, the entire right, title and interest for the United States and all foreign countries in and to any invention(s) and all improvements which are disclosed in the Patent Application and all divisional, continuation, continuation-in-part, substitute, renewal, reissue, re-examinations, and all other applications for patent which have been or shall be filed in the United States, including all provisional and non-provisional applications, and all foreign countries relating to such inventions and improvements; all original and reissued or re-examined patents which have been or shall be issued in the United States and all foreign countries for such invention(s) and improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on the Patent Application, and the right to sue for past, present and future infringement of any patents issuing from the Patent Application;

AUTHORIZE AND REQUEST ASSIGNEE, its successors and assigns, or any attorney it may properly designate and/or to insert into this assignment additional information, such as that listed below, identifying the Patent Applications after execution of this assignment;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on the Patent Application to the ASSIGNEE,

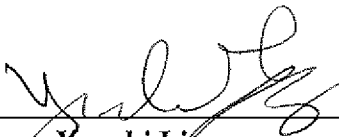
AUTHORIZE the ASSIGNEE to apply for such patents for the invention in its own name;

WARRANT AND COVENANT that no assignment, grant, mortgage, lien, license or other encumbrance or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the ASSIGNOR(S);

COVENANT, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, the undersigned will (1) execute all divisional, continuation, continuation-in-part, substitute, renewal, reissue, re-examinations, and all other patent applications based on the Patent Application, including any and all such invention(s) and improvements entitled; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers relating to the foregoing; (3) communicate to the ASSIGNEE all facts known to the undersigned relating to the Patent Application, including any and all invention(s) and improvements disclosed therein and the history relating thereto; (4) cooperate with the ASSIGNEE in any interference, opposition, dispute, or litigation involving any of the applications or patents for such invention(s) and improvements, including but not limited to testifying; and (5) generally do everything possible which the ASSIGNEE shall consider desirable for vesting title to such invention(s) and improvements in the ASSIGNEE, and for securing, maintaining and enforcing proper patent protection for such inventions(s) and improvements; and

AGREES THAT THIS ASSIGNMENT IS BINDING upon the heirs, assigns, representatives and successors of the undersigned and extends to the successors, assigns and nominees of the ASSIGNEE.

<u>Additional Patent Application Information</u>	
U.S. Provisional Application Serial No. _____,	filed on _____.
U.S. Non-Provisional Application Serial No. <u>13/310849</u>	, filed on <u>December 5, 2011</u>
International Application Serial No. _____,	filed on _____.

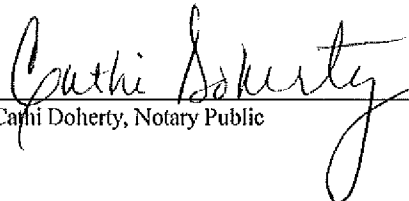
(Signature): 
Name: Youzhi Li

Date: Dec. 2, 2011

STATE OF COLORADO §
 § ss.
COUNTY OF BOULDER §

BEFORE ME, the undersigned authority, on this 2nd day of December, 2011, personally appeared **Youzhi Li** known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

CATHI DOHERTY
[SEAL] NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires 12/27/13


Cathi Doherty, Notary Public

(Signature): [Handwritten Signature]
Name: **Bo Chen**

Date: 12/02/2011

STATE OF COLORADO §
 COUNTY OF BOULDER § ss.
 §

BEFORE ME, the undersigned authority, on this 2nd day of December, 2011, personally appeared **Bo Chen** known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

[SEAL] CATHI DOHERTY
 NOTARY PUBLIC
 STATE OF COLORADO
 My Commission Expires 12/27/13

[Handwritten Signature]
 Cathi Doherty, Notary Public

(Signature): [Handwritten Signature]
Name: **Lockett Wood**

Date: 12/05/2011

STATE OF COLORADO §
 COUNTY OF BOULDER § ss.
 §

BEFORE ME, the undersigned authority, on this 5th day of December, 2011, personally appeared **Lockett Wood** known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

[SEAL] Joan C. Schubert
 Notary Public
 State of Colorado
 My Commission Expires 3-2-13

[Handwritten Signature]

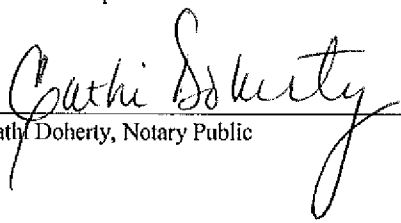
(Signature): 
Name: **Ulf Borg**

Date: 12-16-2011

STATE OF COLORADO §
 COUNTY OF BOULDER § ss.
 §

BEFORE ME, the undersigned authority, on this 16th day of December, 2011, personally appeared **Ulf Borg** known to me to be the person whose name subscribed to the foregoing instrument and acknowledged to me that he/she executed the same of his/her own free will for the purposes and consideration therein expressed.

[SEAL] CATHI DOHERTY
 NOTARY PUBLIC
 STATE OF COLORADO
 My Commission Expires 12/27/13


 Cathi Doherty, Notary Public