

PATENT ASSIGNMENT

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 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>Rolf Vetter</td> <td>03/08/2012</td> </tr> <tr> <td>Leopoldo Rossini</td> <td>03/08/2012</td> </tr> <tr> <td>Andrea Ridolfi</td> <td>03/08/2012</td> </tr> <tr> <td>Josep Sola i Caros</td> <td>03/06/2012</td> </tr> <tr> <td>Marc Correvon</td> <td>03/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Rolf Vetter	03/08/2012	Leopoldo Rossini	03/08/2012	Andrea Ridolfi	03/08/2012	Josep Sola i Caros	03/06/2012	Marc Correvon	03/14/2012
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<table border="1"> <tr> <td>Name:</td> <td>CSEM SA</td> </tr> <tr> <td>Street Address:</td> <td>Jaquet-Droz 1</td> </tr> <tr> <td>City:</td> <td>Neuchatel</td> </tr> <tr> <td>State/Country:</td> <td>SWITZERLAND</td> </tr> <tr> <td>Postal Code:</td> <td>2002</td> </tr> </table>		Name:	CSEM SA	Street Address:	Jaquet-Droz 1	City:	Neuchatel	State/Country:	SWITZERLAND	Postal Code:	2002		
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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>13406691</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13406691								
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CORRESPONDENCE DATA													
<p>Fax Number: (216)579-6073 Phone: 216-579-1700 Email: cdavis@pearne.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: Pearne & Gordon LLP Address Line 1: 1801 East 9th Street Address Line 2: Suite 1200 Address Line 4: Cleveland, OHIO 44114-3108</p>													
ATTORNEY DOCKET NUMBER:	P&TS-48968												
NAME OF SUBMITTER:	Michael W. Garvey												
<p>Total Attachments: 3 source=PTS-48968-Assignment-EXE#page1.tif source=PTS-48968-Assignment-EXE#page2.tif source=PTS-48968-Assignment-EXE#page3.tif</p>													

CH \$40.00 13406691

PATENT

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

MONITORING DEVICE AND METHOD FOR ESTIMATING BLOOD CONSTITUENT CONCENTRATION FOR TISSUES WITH LOW PERFUSION

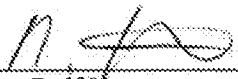
and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office, and executed by the undersigned on the date(s) indicated on the Declaration by the same, which application is further identified as Pearne & Gordon LLP Docket No. PTS-48968.


WHEREAS, CSEM SA, having a place of business at Jaquet-Droz 1, Neuchatel, CH-2002, Switzerland, hereinafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

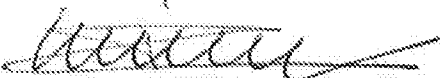
The undersigned hereby grant the firm of Pearne & Gordon LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

 Date: 08.03.2012
Name: Rolf Vetter
Post Office Address: Chemin du Grand Pre 8, CH-1116 Cottens, CH


Witness: 

Witness: 

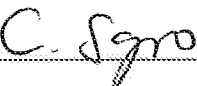
 Date: 08.03.2012
Name: Leopoldo Rossini
Post Office Address: 1 Runch di Guera 6, CH-6528 Camorino, CH

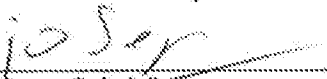
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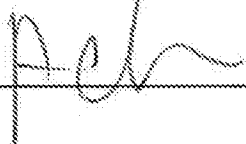
 Date: 08.03.2012
Name: Andrea Ridolfi
Post Office Address: Kirchbergerstrasse 46, CH-3008 Bern, CH

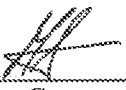
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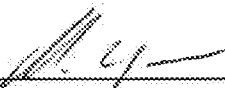
 Date: 06.07.2012
Name: Josep Sola i Caros
Post Office Address: Cure 11A, CH-2035 Corcelles, CH

Witness: 

Witness: 


Name: Marc Correvo
Post Office Address: Etroits 30, CH-2087 Cornaux, CH

Date: 14.03.2012

Witness: 

Witness: 