

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>Sean Lineaweaver</td> <td>07/19/2010</td> </tr> <tr> <td>Gregory Wakefield</td> <td>03/22/2011</td> </tr> <tr> <td>Christopher van den Honert</td> <td>07/26/2010</td> </tr> <tr> <td>Aaron Parkinson</td> <td>07/22/2010</td> </tr> <tr> <td>Wendy Parkinson</td> <td>07/22/2010</td> </tr> <tr> <td>Jim Patrick</td> <td>03/25/2011</td> </tr> <tr> <td>John Parker</td> <td>07/23/2012</td> </tr> </tbody> </table>		Name	Execution Date	Sean Lineaweaver	07/19/2010	Gregory Wakefield	03/22/2011	Christopher van den Honert	07/26/2010	Aaron Parkinson	07/22/2010	Wendy Parkinson	07/22/2010	Jim Patrick	03/25/2011	John Parker	07/23/2012
Name	Execution Date																
Sean Lineaweaver	07/19/2010																
Gregory Wakefield	03/22/2011																
Christopher van den Honert	07/26/2010																
Aaron Parkinson	07/22/2010																
Wendy Parkinson	07/22/2010																
Jim Patrick	03/25/2011																
John Parker	07/23/2012																
RECEIVING PARTY DATA																	
Name:	Cochlear Limited																
Street Address:	1 University Avenue																
City:	Macquarie University, NSW 2109																
State/Country:	AUSTRALIA																
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>12835428</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12835428												
Property Type	Number																
Application Number:	12835428																
CORRESPONDENCE DATA																	
Fax Number:	2022045622																
Phone:	202-639-4719																
Email:	vward@kilpatricktownsend.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:	Michael G. Verga																
Address Line 1:	1100 Peachtree Street, Suite 2800																
Address Line 4:	Atlanta, GEORGIA 30309																
ATTORNEY DOCKET NUMBER:	62367-393705																

OP \$40.00 12835428

NAME OF SUBMITTER:

Michael G. Verga

Total Attachments: 18

source=12835428_Assignment_393705#page1.tif
source=12835428_Assignment_393705#page2.tif
source=12835428_Assignment_393705#page3.tif
source=12835428_Assignment_393705#page4.tif
source=12835428_Assignment_393705#page5.tif
source=12835428_Assignment_393705#page6.tif
source=12835428_Assignment_393705#page7.tif
source=12835428_Assignment_393705#page8.tif
source=12835428_Assignment_393705#page9.tif
source=12835428_Assignment_393705#page10.tif
source=12835428_Assignment_393705#page11.tif
source=12835428_Assignment_393705#page12.tif
source=12835428_Assignment_393705#page13.tif
source=12835428_Assignment_393705#page14.tif
source=12835428_Assignment_393705#page15.tif
source=12835428_Assignment_393705#page16.tif
source=12835428_Assignment_393705#page17.tif
source=12835428_Assignment_393705#page18.tif

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Sean Lineaweaver, residing in Parker, Colorado, Gregory Wakefield, residing in Ann Arbor, Michigan, Christopher van den Honert, residing in Aurora, Colorado, Aaron Parkinson, residing in Parker, Colorado, Wendy Parkinson, residing in Parker, Colorado, Jim Patrick, residing in Roseville, Australia, and John Parker, residing in Roseville, Australia, respectively, (each hereinafter referred to as Assignor);

WHEREAS, Assignor has invented certain new and useful improvements in USING A GENETIC ALGORITHM IN A MIXED MODE DEVICE ("invention(s)"), set forth in Patent Application No. 12/835,428, filed on July 13, 2010; and

WHEREAS, Cochlear Limited, having its principal place of business at 1 University Avenue, Macquarie University, NSW 2109 AUSTRALIA (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any Letters Patent to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Patent Application, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and

delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is a lawful owner of the entire right, title and interest in and to the said invention(s) and said Patent Application, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.


AND Assignor acknowledges an obligation of assignment of said invention(s) to Assignee at the time said invention(s) was/were made.

ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said Patent Application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention(s), including additional documents that may be required to affirm the rights of Assignee in and to said invention(s), all without further consideration. Assignor also agrees, without further consideration and at Assignee's expense, to identify and communicate to Assignee at Assignee's request documents and information concerning said invention(s) that are within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ALSO, Assignor agrees, without further consideration and at Assignee's expense, to transfer the right to sue for past infringement to Assignee and at Assignee's request documents and information concerning the enforcement of the right to sue within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the right to sue of any patent encompassed within the terms of this instrument.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue any Letters Patent of the United States to be obtained therefore and thereon the Patent Application to Assignee, as Assignee of said invention(s) and any Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants all practitioners at Customer Number 30678 (CONNOLLY BOVE LODGE & HUTZ 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.

Date: 19 JULY 2010 
Sean Lineaweaver

Date: _____
Gregory Wakefield

Date: _____
Christopher van den Honert

Date: _____
Aaron Parkinson

Date: _____
Wendy Parkinson

Date: _____
Jim Patrick

Date: _____
John Parker

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Sean Lineaweaver, residing in Parker, Colorado, Gregory Wakefield, residing in Ann Arbor, Michigan, Christopher van den Honert, residing in Aurora, Colorado, Aaron Parkinson, residing in Parker, Colorado, Wendy Parkinson, residing in Parker, Colorado, Jim Patrick, residing in Roseville, Australia, and John Parker, residing in Roseville, Australia, respectively, (each hereinafter referred to as Assignor);

WHEREAS, Assignor has invented certain new and useful improvements in **USING A GENETIC ALGORITHM IN A MIXED MODE DEVICE** ("invention(s)"), set forth in Patent Application No. 12/835,428, filed on July 13, 2010; and

WHEREAS, Cochlear Limited, having its principal place of business at 1 University Avenue, Macquarie University, NSW 2109 AUSTRALIA (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any Letters Patent to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Patent Application, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and

delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is a lawful owner of the entire right, title and interest in and to the said invention(s) and said Patent Application, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND Assignor acknowledges an obligation of assignment of said invention(s) to Assignee at the time said invention(s) was/were made.

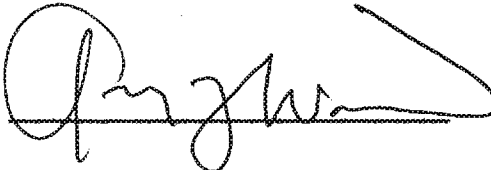
ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said Patent Application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention(s), including additional documents that may be required to affirm the rights of Assignee in and to said invention(s), all without further consideration. Assignor also agrees, without further consideration and at Assignee's expense, to identify and communicate to Assignee at Assignee's request documents and information concerning said invention(s) that are within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ALSO, Assignor agrees, without further consideration and at Assignee's expense, to transfer the right to sue for past infringement to Assignee and at Assignee's request documents and information concerning the enforcement of the right to sue within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the right to sue of any patent encompassed within the terms of this instrument.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue any Letters Patent of the United States to be obtained therefore and thereon the Patent Application to Assignee, as Assignee of said invention(s) and any Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants all practitioners at Customer Number 30678 (CONNOLLY BOVE LODGE & HUTZ 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.

Date: _____ Sean Lineaweaver

Date:  _____ 3/22/2011
Gregory Wakefield

Date: _____ Christopher van den Honert

Date: _____ Aaron Parkinson

Date: _____ Wendy Parkinson

Date: _____ Jim Patrick

Date: _____ John Parker

ASSIGNMENT BY INVENTOR

Boulder
26-Jul-10

THIS ASSIGNMENT, made by Sean Lineaweaver, residing in Parker, Colorado, Gregory Wakefield, residing in Ann Arbor, Michigan, Christopher van den Honert, residing in Aurora, Colorado, Aaron Parkinson, residing in Parker, Colorado, Wendy Parkinson, residing in Parker, Colorado, Jim Patrick, residing in Roseville, Australia, and John Parker, residing in Roseville, Australia, respectively, (each hereinafter referred to as Assignor);

WHEREAS, Assignor has invented certain new and useful improvements in USING A GENETIC ALGORITHM IN A MIXED MODE DEVICE ("invention(s)"), set forth in Patent Application No. 12/835,428, filed on July 13, 2010, and

WHEREAS, Cochlear Limited, having its principal place of business at 1 University Avenue, Macquarie University, NSW 2109 AUSTRALIA (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any Letters Patent to be obtained (thereof and thereon).

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Patent Application, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and

delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is a lawful owner of the entire right, title and interest in and to the said invention(s) and said Patent Application, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND Assignor acknowledges an obligation of assignment of said invention(s) to Assignee at the time said invention(s) was/were made.

ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said Patent Application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention(s), including additional documents that may be required to affirm the rights of Assignee in and to said invention(s), all without further consideration. Assignor also agrees, without further consideration and at Assignee's expense, to identify and communicate to Assignee at Assignee's request documents and information concerning said invention(s) that are within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ALSO, Assignor agrees, without further consideration and at Assignee's expense, to transfer the right to sue for past infringement to Assignee and at Assignee's request documents and information concerning the enforcement of the right to sue within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the right to sue of any patent encompassed within the terms of this instrument.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue any Letters Patent of the United States to be obtained therefore and thereon the Patent Application to Assignee, as Assignee of said invention(s) and any Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants all practitioners at Customer Number 30678 (CONNOLLY BOVE LODGE & HUTZ 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.

Date: _____ Sean Lineaweaver

Date: _____ Gregory Wakefield

Date: 26 July 2010 _____

Christopher van den Honert

Date: _____ Aaron Parkinson

Date: _____ Wendy Parkinson

Date: _____ Jim Patrick

Date: _____ John Parker

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Sean Lineaweaver, residing in Parker, Colorado, Gregory Wakefield, residing in Ann Arbor, Michigan, Christopher van den Honert, residing in Aurora, Colorado, Aaron Parkinson, residing in Parker, Colorado, Wendy Parkinson, residing in Parker, Colorado, Jim Patrick, residing in Roseville, Australia, and John Parker, residing in Roseville, Australia, respectively, (each hereinafter referred to as Assignor);

WHEREAS, Assignor has invented certain new and useful improvements in **USING A GENETIC ALGORITHM IN A MIXED MODE DEVICE** ("invention(s)"), set forth in Patent Application No. 12/835,428, filed on July 13, 2010; and

WHEREAS, Cochlear Limited, having its principal place of business at 1 University Avenue, Macquarie University, NSW 2109 AUSTRALIA (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any Letters Patent to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Patent Application, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and

delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is a lawful owner of the entire right, title and interest in and to the said invention(s) and said Patent Application, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND Assignor acknowledges an obligation of assignment of said invention(s) to Assignee at the time said invention(s) was/were made.

ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said Patent Application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention(s), including additional documents that may be required to affirm the rights of Assignee in and to said invention(s), all without further consideration. Assignor also agrees, without further consideration and at Assignee's expense, to identify and communicate to Assignee at Assignee's request documents and information concerning said invention(s) that are within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ALSO, Assignor agrees, without further consideration and at Assignee's expense, to transfer the right to sue for past infringement to Assignee and at Assignee's request documents and information concerning the enforcement of the right to sue within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the right to sue of any patent encompassed within the terms of this instrument.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue any Letters Patent of the United States to be obtained therefore and thereon the Patent Application to Assignee, as Assignee of said invention(s) and any Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants all practitioners at Customer Number 30678 (CONNOLLY BOVE LODGE & HUTZ 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.

Date: _____ Sean Lineaweaver

Date: _____ Gregory Wakefield

Date: _____ Christopher van den Honert

Date: 7/22/10 _____ Aaron Parkinson

Date: 7/22/10 _____ Wendy Parkinson

Date: _____ Jim Patrick

Date: _____ John Parker

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Sean Lineaweaver, residing in Parker, Colorado, Gregory Wakefield, residing in Ann Arbor, Michigan, Christopher van den Honert, residing in Aurora, Colorado, Aaron Parkinson, residing in Parker, Colorado, Wendy Parkinson, residing in Parker, Colorado, Jim Patrick, residing in Roseville, Australia, and John Parker, residing in Roseville, Australia, respectively, (each hereinafter referred to as Assignor);

WHEREAS, Assignor has invented certain new and useful improvements in USING A GENETIC ALGORITHM IN A MIXED MODE DEVICE ("invention(s)"), set forth in Patent Application No. 12/835,428, filed on July 13, 2010; and

WHEREAS, Cochlear Limited, having its principal place of business at 1 University Avenue, Macquarie University, NSW 2109 AUSTRALIA (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any Letters Patent to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Patent Application, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and

delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is a lawful owner of the entire right, title and interest in and to the said invention(s) and said Patent Application, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND Assignor acknowledges an obligation of assignment of said invention(s) to Assignee at the time said invention(s) was/were made.

ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said Patent Application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention(s), including additional documents that may be required to affirm the rights of Assignee in and to said invention(s), all without further consideration. Assignor also agrees, without further consideration and at Assignee's expense, to identify and communicate to Assignee at Assignee's request documents and information concerning said invention(s) that are within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ALSO, Assignor agrees, without further consideration and at Assignee's expense, to transfer the right to sue for past infringement to Assignee and at Assignee's request documents and information concerning the enforcement of the right to sue within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the right to sue of any patent encompassed within the terms of this instrument.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue any Letters Patent of the United States to be obtained therefore and thereon the Patent Application to Assignee, as Assignee of said invention(s) and any Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants all practitioners at Customer Number 30678 (CONNOLLY BOVE LODGE & HUTZ 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.

Date: _____ Sean Lineaweaver

Date: _____ Gregory Wakefield

Date: _____ Christopher van den Honert

Date: _____ Aaron Parkinson

Date: _____ Wendy Parkinson

Date: 25/3/11 _____
Jim Patrick

Date: _____ John Parker

ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Sean Lineaweaver, residing in Parker, Colorado, Gregory Wakefield, residing in Ann Arbor, Michigan, Christopher van den Honert, residing in Aurora, Colorado, Aaron Parkinson, residing in Parker, Colorado, Wendy Parkinson, residing in Parker, Colorado, Jim Patrick, residing in Roseville, Australia, and John Parker, residing in Roseville, Australia, respectively, (each hereinafter referred to as Assignor);

WHEREAS, Assignor has invented certain new and useful improvements in USING A GENETIC ALGORITHM IN A MIXED MODE DEVICE. ("invention(s)"), set forth in Patent Application No. 12/835,428, filed on July 13, 2010; and

WHEREAS, Cochlear Limited, having its principal place of business at 1 University Avenue, Macquarie University, NSW 2109 AUSTRALIA (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any Letters Patent to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to said invention(s) and said Patent Application, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Patent Application, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

AND for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and

delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is a lawful owner of the entire right, title and interest in and to the said invention(s) and said Patent Application, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND Assignor acknowledges an obligation of assignment of said invention(s) to Assignee at the time said invention(s) was/were made.

ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said Patent Application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention(s), including additional documents that may be required to affirm the rights of Assignee in and to said invention(s), all without further consideration. Assignor also agrees, without further consideration and at Assignee's expense, to identify and communicate to Assignee at Assignee's request documents and information concerning said invention(s) that are within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

ALSO, Assignor agrees, without further consideration and at Assignee's expense, to transfer the right to sue for past infringement to Assignee and at Assignee's request documents and information concerning the enforcement of the right to sue within Assignor's possession or control, and to provide further assurances and testimony on behalf of Assignee that lawfully may be required of Assignor in respect of the right to sue of any patent encompassed within the terms of this instrument.

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue any Letters Patent of the United States to be obtained therefore and thereon the Patent Application to Assignee, as Assignee of said invention(s) and any Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignor hereby grants all practitioners at Customer Number 30678 (CONNOLLY BOVE LODGE & HUTZ, 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.

Date: _____ Sean Lineaweaver

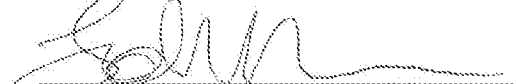
Date: _____ Gregory Wakefield

Date: _____ Christopher van den Honert

Date: _____ Aaron Parkinson

Date: _____ Wendy Parkinson

Date: _____ Jim Patrick

Date: 23/07/2012  _____
John Parker