

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

Assignment ID: PATI116789

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	Anatoly Borisovich Grudin	01/21/2013
	John Redvers Clowes	01/21/2013
	Pascal Dupriez	01/28/2013
	Paulo Almeida	01/21/2013
<b>RECEIVING PARTY DATA</b>		
<b>Company Name:</b>	FIANIUM LTD	
<b>Street Address:</b>	20 Compass Point	
<b>Internal Address:</b>	Ensign Way, Hamble	
<b>City:</b>	Southampton	
<b>State/Country:</b>	UNITED KINGDOM	
<b>Postal Code:</b>	SO31 4RA	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16741186	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	7038362021	
<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>Phone:</b>	9544682338	
<b>Email:</b>	stacey.pflieger@bipc.com	
<b>Correspondent Name:</b>	Mrs. Stacey Pflieger	
<b>Address Line 1:</b>	1737 King St	
<b>Address Line 2:</b>	Suite 500	
<b>Address Line 4:</b>	Alexandria, VIRGINIA 22314-2727	
<b>ATTORNEY DOCKET NUMBER:</b>	0098133-000029	
<b>NAME OF SUBMITTER:</b>	Stacey Pflieger	
<b>SIGNATURE:</b>	Stacey Pflieger	
<b>DATE SIGNED:</b>	03/25/2024	
<b>Total Attachments: 8</b>		

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ASSIGNMENT NUNC PRO TUNC

THIS INSTRUMENT OF ASSIGNMENT NUNC PRO TUNC WITNESSETH  
THAT:

WHEREAS, I, Anatoly Borisovich Grudinin, resident of 69 Burgess Rd, Southampton, Hampshire SO16 7AL, Great Britain, have made the inventions described below in the following Patent Applications:

TUNABLE PULSE WIDTH LASER as described in: United States Provisional Patent Application Serial No. 61/345,145 filed on 16 May 2010 and International Application PCT/US2011/036681 filed on 16 May 2011; and

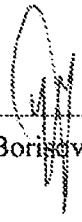
WHEREAS, FIANIUM LTD, a limited company of the United Kingdom having a place of business at 20 Compass Point, Ensign Way, Hamble, Southampton, SO31 4RA, United Kingdom, (hereinafter "ASSIGNEE") did acquire and is desirous of acquiring all right, title and interest in and to said inventions, said application and the Letters Patent to be issued therefor

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt whereof is hereby acknowledged, I, Anatoly Grudinin hereby confirm that as of 16 May 2010 I sold, assigned and set over, and do hereby sell, assign and set over to said ASSIGNEE, its successors or assigns, the entire right, title and interest to and in said inventions in all jurisdictions, including the United States, its territorial possessions and all countries foreign to the United States (hereinafter "foreign countries"), said entire right, title and interest including the above-identified patent applications and any patents issuing therefrom; regular, continuation, continuation-in-part, divisional, reissue, or re-exam applications and patents of the foregoing; any other patents or applications, including United States, foreign or international patent or applications, related to the foregoing by way of a priority claim; as well as any and all proprietary rights, Convention rights, and other benefits accruing or to accrue to me with respect to the filing and/or prosecuting applications for patents or securing patents in any and all jurisdictions, including the United States, its territorial possessions, and any and all foreign countries.

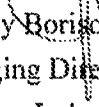
And I also hereby covenant and agree to sign all proper papers including divisional and other applications for patents and assignments thereof in the United States and applications for patents and assignments in all foreign countries, and to execute all rightful oaths and to take any

other proper action that may in the judgment of the said ASSIGNEE be necessary to obtain and enforce full rights to said invention in any and all jurisdictions, including the United States, its territorial possessions and any and all foreign countries, all of the foregoing to be at the expense of said ASSIGNEE.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal this 21<sup>st</sup>  
day of January, 2013.

  
\_\_\_\_\_  
Anatoly Borisovich Grudinin

Executed by ASSIGNEE on this 21<sup>st</sup> day of January 2013

  
\_\_\_\_\_  
Anatoly Borisovich Grudinin  
Managing Director  
Fianium, Ltd.

ASSIGNMENT NUNC PRO TUNC

THIS INSTRUMENT OF ASSIGNMENT NUNC PRO TUNC WITNESSETH  
THAT:

WHEREAS, I, John Redvers Clowes, resident of Meadowbank, South Sway Lane, Sway, Lymington, SO41 6DL, Great Britain, have made inventions described below in the following Patent Applications:

TUNABLE PULSE WIDTH LASER as described in United States Provisional Patent Application Serial No. 61/345,145 filed on 16 May 2010 and International Application PCT/US2011/036681 filed on 16 May 2011; and

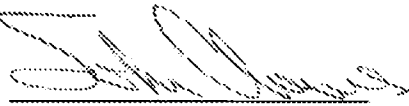
WHEREAS, FIANIUM LTD, a limited company of the United Kingdom having a place of business at 20 Compass Point, Ensign Way, Hamble, Southampton, SO31 4RA, United Kingdom, (hereinafter "ASSIGNEE") did acquire and is desirous of acquiring all right, title and interest in and to said inventions, said application and the Letters Patent to be issued therefor

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt whereof is hereby acknowledged, I, John Redvers Clowes, hereby confirm that as of 16 May 2010 I sold, assigned and set over, and do hereby sell, assign and set over to said ASSIGNEE, its successors or assigns, the entire right, title and interest to and in said inventions in all jurisdictions, including the United States, its territorial possessions and all countries foreign to the United States (hereinafter "foreign countries"), said entire right, title and interest including the above-identified patent applications and any patents issuing therefrom; regular, continuation, continuation-in-part, divisional, reissue, or re-exam applications and patents of the foregoing; any other patents or applications, including United States, foreign or international patent or applications, related to the foregoing by way of a priority claim; as well as any and all proprietary rights, Convention rights, and other benefits accruing or to accrue to me with respect to the filing and/or prosecuting applications for patents or securing patents in any and all jurisdictions, including the United States, its territorial possessions, and any and all foreign countries.

And I also hereby covenant and agree to sign all proper papers including divisional and other applications for patents and assignments thereof in the United States and applications for patents and assignments in all foreign countries, and to execute all rightful oaths and to take any

other proper action that may in the judgment of the said ASSIGNEE be necessary to obtain and enforce full rights to said invention in any and all jurisdictions, including the United States, its territorial possessions and any and all foreign countries, all of the foregoing to be at the expense of said ASSIGNEE.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal this 21<sup>st</sup> day of January, 2013.



John Redvers Clowes

Executed by ASSIGNEE on this 21<sup>st</sup> day of January 2013



Anatoly Borisovich Grudin  
Managing Director  
Fianium, Ltd.

ASSIGNMENT NUNC PRO TUNC

THIS INSTRUMENT OF ASSIGNMENT NUNC PRO TUNC WITNESSETH  
THAT:

WHEREAS, I, Pascal Dupriez, resident of 153 chemin de Loustalade, Leognan, 33850, France, have made inventions described below in the following Patent Applications:

TUNABLE PULSE WIDTH LASER as described in United States Provisional Patent Application Serial No. 61/345,145 filed on 16 May 2010 and International Application PCT/US2011/036681 filed on 16 May 2011; and

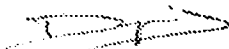
WHEREAS, FIANIUM LTD, a limited company of the United Kingdom having a place of business at 20 Compass Point, Ensign Way, Hamble, Southampton, SO31 4RA, United Kingdom, (hereinafter "ASSIGNEE") did acquire and is desirous of acquiring all right, title and interest in and to said inventions, said application and the Letters Patent to be issued therefor

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt whereof is hereby acknowledged, I, Pascal Dupriez, hereby confirm that as of 16 May 2010 I sold, assigned and set over, and do hereby sell, assign and set over to said ASSIGNEE, its successors or assigns, the entire right, title and interest to and in said inventions in all jurisdictions, including the United States, its territorial possessions and all countries foreign to the United States (hereinafter "foreign countries"), said entire right, title and interest including the above-identified patent applications and any patents issuing therefrom; regular, continuation, continuation-in-part, divisional, reissue, or re-exam applications and patents of the foregoing; any other patents or applications, including United States, foreign or international patent or applications, related to the foregoing by way of a priority claim; as well as any and all proprietary rights, Convention rights, and other benefits accruing or to accrue to me with respect to the filing and/or prosecuting applications for patents or securing patents in any and all jurisdictions, including the United States, its territorial possessions, and any and all foreign countries.

And I also hereby covenant and agree to sign all proper papers including divisional and other applications for patents and assignments thereof in the United States and applications for patents and assignments in all foreign countries, and to execute all rightful oaths and to take any other proper action that may in the judgment of the said ASSIGNEE be necessary to obtain and

enforce full rights to said invention in any and all jurisdictions, including the United States, its territorial possessions and any and all foreign countries, all of the foregoing to be at the expense of said ASSIGNEE.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal this 28<sup>th</sup> day of January, 2013.



Pascal Dupriez

Executed by ASSIGNEE on this 30 day of January



Anatoly Borisovich Grudinn  
Managing Director  
Fianium, Ltd.

ASSIGNMENT NUNC PRO TUNC

THIS INSTRUMENT OF ASSIGNMENT NUNC PRO TUNC WITNESSETH  
THAT:

WHEREAS, I, Paulo Almeida, resident of Flat 19, Bassett Avenue, Southampton, SO16 7DR, Great Britain, have made inventions described below in the following Patent Applications:

TUNABLE PULSE WIDTH LASER as described in United States Provisional Patent Application Serial No. 61/345,145 filed on 16 May 2010 and International Application PCT/US2011/036681 filed on 16 May 2011; and

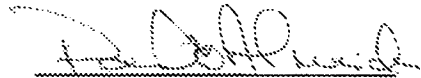
WHEREAS, FIANIUM LTD, a limited company of the United Kingdom having a place of business at 20 Compass Point, Ensign Way, Hamble, Southampton, SO31 4RA, United Kingdom, (hereinafter "ASSIGNEE") did acquire and is desirous of acquiring all right, title and interest in and to said inventions, said application and the Letters Patent to be issued therefor

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt whereof is hereby acknowledged, I, Paulo Almeida, hereby confirm that as of 16 May 2010 I sold, assigned and set over, and do hereby sell, assign and set over to said ASSIGNEE, its successors or assigns, the entire right, title and interest to and in said inventions in all jurisdictions, including the United States, its territorial possessions and all countries foreign to the United States (hereinafter "foreign countries"), said entire right, title and interest including the above-identified patent applications and any patents issuing therefrom; regular, continuation, continuation-in-part, divisional, reissue, or re-exam applications and patents of the foregoing; any other patents or applications, including United States, foreign or international patent or applications, related to the foregoing by way of a priority claim; as well as any and all proprietary rights, Convention rights, and other benefits accruing or to accrue to me with respect to the filing and/or prosecuting applications for patents or securing patents in any and all jurisdictions, including the United States, its territorial possessions, and any and all foreign countries.

And I also hereby covenant and agree to sign all proper papers including divisional and other applications for patents and assignments thereof in the United States and applications for patents and assignments in all foreign countries, and to execute all rightful oaths and to take any other proper action that may in the judgment of the said ASSIGNEE be necessary to obtain and

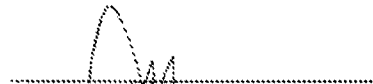
enforce full rights to said invention in any and all jurisdictions, including the United States, its territorial possessions and any and all foreign countries, all of the foregoing to be at the expense of said ASSIGNEE.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal this 21<sup>st</sup> day of January, 2013.



Paulo Almeida

Executed by ASSIGNEE on this 21<sup>st</sup> day of January 2013



Anatoly Borisovich Grudin  
Managing Director  
Fianium, Ltd.