

## 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>Rodrigo Leandro</td> <td>04/25/2012</td> </tr> <tr> <td>Ulrich Vollath</td> <td>03/28/2012</td> </tr> <tr> <td>Nicholas Charles Talbot</td> <td>03/29/2012</td> </tr> </tbody> </table>                |                             | Name          | Execution Date             | Rodrigo Leandro     | 04/25/2012        | Ulrich Vollath | 03/28/2012 | Nicholas Charles Talbot | 03/29/2012 |              |       |
| Name   | Execution Date              |               |                            |                     |                   |                |            |                         |            |              |       |
| Rodrigo Leandro  | 04/25/2012                  |               |                            |                     |                   |                |            |                         |            |              |       |
| Ulrich Vollath   | 03/28/2012                  |               |                            |                     |                   |                |            |                         |            |              |       |
| Nicholas Charles Talbot  | 03/29/2012                  |               |                            |                     |                   |                |            |                         |            |              |       |
| RECEIVING PARTY DATA   |                             |               |                            |                     |                   |                |            |                         |            |              |       |
| <table border="1"> <tr> <td>Name:</td> <td>Trimble Navigation Limited</td> </tr> <tr> <td>Street Address:</td> <td>935 Stewart Drive</td> </tr> <tr> <td>City:</td> <td>Sunnyvale</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94085</td> </tr> </table> |                             | Name:         | Trimble Navigation Limited | Street Address:     | 935 Stewart Drive | City:          | Sunnyvale  | State/Country:          | CALIFORNIA | Postal Code: | 94085 |
| Name:  | Trimble Navigation Limited  |               |                            |                     |                   |                |            |                         |            |              |       |
| Street Address:  | 935 Stewart Drive           |               |                            |                     |                   |                |            |                         |            |              |       |
| City:  | Sunnyvale                   |               |                            |                     |                   |                |            |                         |            |              |       |
| State/Country:   | CALIFORNIA                  |               |                            |                     |                   |                |            |                         |            |              |       |
| Postal Code:   | 94085                       |               |                            |                     |                   |                |            |                         |            |              |       |
| 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>14002332</td> </tr> </tbody> </table>  |                             | Property Type | Number                     | Application Number: | 14002332          |                |            |                         |            |              |       |
| Property Type  | Number                      |               |                            |                     |                   |                |            |                         |            |              |       |
| Application Number:  | 14002332                    |               |                            |                     |                   |                |            |                         |            |              |       |
| CORRESPONDENCE DATA  |                             |               |                            |                     |                   |                |            |                         |            |              |       |
| Fax Number:  | 6509416376                  |               |                            |                     |                   |                |            |                         |            |              |       |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>   |                             |               |                            |                     |                   |                |            |                         |            |              |       |
| Phone:   | 650-948-6235                |               |                            |                     |                   |                |            |                         |            |              |       |
| Email:   | bruce@riter.net             |               |                            |                     |                   |                |            |                         |            |              |       |
| Correspondent Name:  | Bruce Riter                 |               |                            |                     |                   |                |            |                         |            |              |       |
| Address Line 1:  | 101 First Street PMB 208    |               |                            |                     |                   |                |            |                         |            |              |       |
| Address Line 4:  | Los Altos, CALIFORNIA 94022 |               |                            |                     |                   |                |            |                         |            |              |       |
| ATTORNEY DOCKET NUMBER:  | TNL A-2676US                |               |                            |                     |                   |                |            |                         |            |              |       |
| NAME OF SUBMITTER:   | Bruce Riter                 |               |                            |                     |                   |                |            |                         |            |              |       |
| Signature:   | /BD Riter/                  |               |                            |                     |                   |                |            |                         |            |              |       |
| Date:  | 08/29/2013                  |               |                            |                     |                   |                |            |                         |            |              |       |

OP \$40.00 14002332

**Total Attachments: 6**

source=TNL\_A-2676PCT\_Assignment\_signed#page1.tif

source=TNL\_A-2676PCT\_Assignment\_signed#page2.tif

source=TNL\_A-2676PCT\_Assignment\_signed#page3.tif

source=TNL\_A-2676PCT\_Assignment\_signed#page4.tif

source=TNL\_A-2676PCT\_Assignment\_signed#page5.tif

source=TNL\_A-2676PCT\_Assignment\_signed#page6.tif

**ASSIGNMENT OF PATENT APPLICATION**

WHEREAS, Rodrigo LEANDRO of Robert-Koch Strasse 26, 85521 Ottobrunn, Germany, and Ulrich VOLLATH of 1144 E Akron Pl. Superior, Colorado 80027 USA, and Nicholas Charles TALBOT of 18 Amery Street, Ashburton, Victoria 3147, Australia, hereinafter referred to as "Assignors", have invented certain new and useful improvements as described and set forth in the below identified Application for Patent:

Title: GNSS Signal Processing With Ionospheric Bridging For Reconvergence

Filing date: 11 March 2012, Application No. PCT/US2012/028670 ; and

WHEREAS, TRIMBLE NAVIGATION LIMITED, 935 Stewart Drive, Sunnyvale, CA, 94085 (name and address of Assignee) hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent which may be granted on the same;

FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application, all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have hereunto signed their names.

(1) (Rodrigo LEANDRO)

Rodrigo Leandro  
(Signature of Assignor as written above)

HONGKONG, 25. APR. 2012  
(Place and Date of Signing)

BE IT KNOWN, that Rodrigo LEANDRO is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness:

Am Gantner  
(Signature of Witness)

Xiaoming Chen  
(Printed Name of Witness)

Am Gantner 1  
(Post Office Address of Witness)

85635 Höhenkirchen

Witness:

T. Allison  
(Signature of Witness)

Timo Allison  
(Printed Name of Witness)

Old Cottage, East Grimstead  
(Post Office Address of Witness)

Salisbury SPS 3RT, UK.

(2) (Ulrich VOLLATH)

\_\_\_\_\_  
(Signature of Assignor as written above) (Place and Date of Signing)

BE IT KNOWN, that Ulrich VOLLATH is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)

\_\_\_\_\_  
(Post Office Address of Witness)

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)

\_\_\_\_\_  
(Post Office Address of Witness)

(3) (Nicholas Charles TALBOT)

\_\_\_\_\_  
(Signature of Assignor as written above) (Place and Date of Signing)

BE IT KNOWN, that Nicholas Charles TALBOT is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)

\_\_\_\_\_  
(Post Office Address of Witness)

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)

\_\_\_\_\_  
(Post Office Address of Witness)

**ASSIGNMENT OF PATENT APPLICATION**

WHEREAS, Rodrigo LEANDRO of Robert-Koch Strasse 26, 85521 Ottobrunn, Germany, and Ulrich VOLLATH of 1144 E Akron Pl, Superior, Colorado 80027 USA, and Nicholas Charles TALBOT of 18 Amery Street, Ashburton, Victoria 3147, Australia, hereinafter referred to as "Assignors", have invented certain new and useful improvements as described and set forth in the below identified Application for Patent:

Title: **GNSS Signal Processing With Ionospheric Bridging For Reconvergence**

Filing date: 11 March 2012, Application No. PCT/US2012/028670 ; and

WHEREAS, TRIMBLE NAVIGATION LIMITED, 935 Stewart Drive, Sunnyvale, CA, 94085 (name and address of Assignee) hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent which may be granted on the same;

FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application, all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have hereunto signed their names.

(1) (Rodrigo LEANDRO)

\_\_\_\_\_  
*(Signature of Assignor as written above)*      *(Place and Date of Signing)*

BE IT KNOWN, that Rodrigo LEANDRO is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness: \_\_\_\_\_  
*(Signature of Witness)*      *(Printed Name of Witness)*

\_\_\_\_\_  
*(Post Office Address of Witness)*

Witness: \_\_\_\_\_  
*(Signature of Witness)*      *(Printed Name of Witness)*

\_\_\_\_\_  
*(Post Office Address of Witness)*

(2) (Ulrich VOLLATH)

Ulrich VOLLATH Westminster, 3/28/2012  
(Signature of Assignor as written above) (Place and Date of Signing)

BE IT KNOWN, that Ulrich VOLLATH is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness: J. Westberg JOHAN WESTBERG  
(Signature of Witness) (Printed Name of Witness)  
3349 BRYANT ST, DENVER CO 80211 USA  
(Post Office Address of Witness)

Witness: Stefano GHIEMMETTI Stefano GHIEMMETTI  
(Signature of Witness) (Printed Name of Witness)  
15026 Silver Feather Cir. Broomfield, Co 80023  
(Post Office Address of Witness)

(3) (Nicholas Charles TALBOT)

\_\_\_\_\_  
(Signature of Assignor as written above) (Place and Date of Signing)

BE IT KNOWN, that Nicholas Charles TALBOT is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)  
\_\_\_\_\_  
(Post Office Address of Witness)

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)  
\_\_\_\_\_  
(Post Office Address of Witness)

**ASSIGNMENT OF PATENT APPLICATION**

WHEREAS, Rodrigo LEANDRO of Robert-Koch Strasse 26, 85521 Ottobrunn, Germany, and Ulrich VOLLATH of 1144 E Akron Pl, Superior, Colorado 80027 USA, and Nicholas Charles TALBOT of 18 Amery Street, Ashburton, Victoria 3147, Australia, hereinafter referred to as "Assignors", have invented certain new and useful improvements as described and set forth in the below identified Application for Patent:

Title: **GNSS Signal Processing With Ionospheric Bridging For Reconvergence**

Filing date: 11 March 2012, Application No. PCT/US2012/028670 ; and

WHEREAS, TRIMBLE NAVIGATION LIMITED, 935 Stewart Drive, Sunnyvale, CA 94085 (name and address of Assignee) hereinafter referred to as "Assignee", is desirous of acquiring an interest in the invention and application and in any Letters Patent which may be granted on the same;

FOR good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application, all foreign counterparts (including patent, utility model and industrial designs), and all future improvements thereon, and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have hereunto signed their names.

**(1) (Rodrigo LEANDRO)**

\_\_\_\_\_  
(Signature of Assignor as written above) (Place and Date of Signing)

BE IT KNOWN, that Rodrigo LEANDRO is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)

\_\_\_\_\_  
(Post Office Address of Witness)

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)

\_\_\_\_\_  
(Post Office Address of Witness)

(2) (Ulrich VOLLATH)

\_\_\_\_\_  
(Signature of Assignor as written above) (Place and Date of Signing)

BE IT KNOWN, that Ulrich VOLLATH is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)

\_\_\_\_\_  
(Post Office Address of Witness)

Witness: \_\_\_\_\_  
(Signature of Witness) (Printed Name of Witness)

\_\_\_\_\_  
(Post Office Address of Witness)

(3) (Nicholas Charles TALBOT)

Nicholas Talbot UNIT 1, 6 GARDEN RD  
(Signature of Assignor as written above) CLAYTON, VICTORIA, AUSTRALIA.  
29 March 2012.  
(Place and Date of Signing)

BE IT KNOWN, that Nicholas Charles TALBOT is known to us to be the individual described in this assignment, that on the date of signing indicated above we were personally present and did see him sign and execute this assignment and that he acknowledged to us that he executed the same as his free act and deed for the uses and purposes set forth.

Witness: Martin English  
(Signature of Witness) MARTIN ENGLISH  
(Printed Name of Witness)

24 CRAIG ST BLACKBURW STH VIC 3130 AUS.  
(Post Office Address of Witness)

Witness: Jamie Portman  
(Signature of Witness) JAMIE PORTMAN  
(Printed Name of Witness)

2811 HEALESVILLE-KINGLAKE RD, KINGLAKE VIC 3763 AUS  
(Post Office Address of Witness)