PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Junjie Liu	07/31/2006
Ulrich Vollath	07/25/2006
Peter lan West	11/06/2006
Soeren Ulf Klose	07/25/2006

RECEIVING PARTY DATA

Name:	Trimble Navigation Limited
Street Address:	935 Stewart Drive
City:	Sunnyvale
State/Country:	CALIFORNIA
Postal Code:	94085

PROPERTY NUMBERS Total: 2

Property Type	Number
Patent Number:	7498979
Application Number:	12321843

CORRESPONDENCE DATA

Fax Number: (650)941-6376

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 6509486235

Email: bruce@riter.net

Correspondent Name: Bruce D Riter

Address Line 1: 101 First Street PMB 208
Address Line 4: Los Altos, CALIFORNIA 94022

ATTORNEY DOCKET NUMBER:	TNL A-1815US/C1
NAME OF SUBMITTER:	Bruce D Riter

PATENT REEL: 025017 FRAME: 0881

501297858

Total Attachments: 6

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ASSIGNMENT OF PATENT APPLICATION

Docket No. TNL A-1815P

WHEREAS, Junjie LIU, of 1818, 6 Str NW, T2M 4T5, Calgary, Alberta, Canada, and Ullrich VOLLATH of Gernweg 18, D-85774 Unterfoehring, Germany, and Peter Ian WEST of 44 Garreg Rd, Christchurch 8005, New Zealand, and Soeren Ulf KLOSE of Schlossstrasse 5, D-83620 Feldkirchen-Westerham, Germany, hereinafter referred to as "Assignors", have invented certain new and useful improvements as described and set forth in the below identified Provisional United States Patent Application:

Title: Fast Decimenter-Level GNSS Positioning

Filing date: 17 April 2006, Serial No. 60/792,911; and

IN TESTIMONY WHEREOF, Assignors have hereunto signed their names.

WHEREAS, <u>TRIMBLE NAVIGATION LIMITED</u>, 435 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.

(I) (Junjie LIU)

(Signature of Assignor as written above)

(Place and Date of Signing)

BE IT KNOWN, that Junjie LIU 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)

(Signature of Witness)

(Post Office Address of Witness)

(Signature of Witness)

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Page 1 of 2

(2)	(Ullrich VOL	LATH) (Signature of Assignor as written above	e) (Place and Date of Signing)
		(Signature of Assignor as written abov	e) (Fluce and Date of Signing)
	the date of sign	ning indicated above we were personally presen	be the individual described in this assignment, that on it and did see him sign and execute this assignment his free act and deed for the uses and purposes set
	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)	A STATE OF THE STA
(3)	(Peter Ian W		
		(Signature of Assignor as written about	ve) (Place and Date of Signing)
	signing indicate	I, that <u>Peter Ian WEST</u> is known to us to be the d above we were personally present and did see him o us that he executed the same as his free act and de	
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		(Post Office Address of Witness)	
	Witness:	(Signature of Witness)	(Printed Name of Witness)
		(Post Office Address of Witness)	
(2)	(Soeren Ulf l	KLOSE) (Signature of Assignor as written abo	(Place and Date of Signing)
	of signing indic		the individual described in this assignment, that on the date
	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)	

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Joint

ASSIGNMENT OF PATENT APPLICATION

Docket No. TNL A-1815P

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Title: _	Fast Decimenter-Le	evel GNSS	Positioning	
Filing d	ate: <u>17 April 2006</u> ,	Serial No.	60/792,911; an	d

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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.

(Junjie LIU			
	(Signature of Assignor as	written above)	(Place and Date of Signing)
	WN, that <u>Junjie LIU</u> is known to us to ted above we were personally present and dit to us that he executed the same as his free a		
	and and and the first field to	act and aced for the	uses and purposes set forth.
Witness:		net and deed for the	uses and purposes set forth.
	(Signature of Witness)		Name of Witness)
	(Signature of Witness)		

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Page 1 of 2

(2)	(Ullrich VOLL	(Signature of Assignation	or as written above)	- Hohenhitden, 25-Jul-06 (Place and Date of Signing)
	the date of signin	g indicated above we were pe	ersonally present and di	dividual described in this assignment, that on d see him sign and execute this assignment act and deed for the uses and purposes set
	Witness:	(Signature of Witness)	Perinte	ter Kok ed Name of Witness)
		Creicelskinstr. Sa (Post Office Address of Wity	•	
	Witness:	(Mgnature of Witness)		ed Name of Witness)
		(Post Office Address of With	ness)	-81739 München
(3)	(Peter Ian WES	T) (Signature of Assigna	or as written above)	(Place and Date of Signing)
•	signing indicated al	at <u>Peter Ian WEST</u> is know sove we were personally presen that he executed the same as his	t and did see him sign and	al described in this assignment, that on the date of execute this assignment and that he uses and purposes set forth.
	Witness:	(Signature of Witness)	(Printed	d Name of Witness)
	Witness:	(Post Office Address of Witness (Signature of Witness)		d Name of Witness)
(2)	(Communication	(Post Office Address of Witness	ha/	Höhenleirchen, 25. July 2006
(2)	(Soeren Ulf KL	(Signature of Assignation	or as written above)	(Place and Date of Signing)
	of signing indicated	at <u>Socren Ulf KLOSE</u> is known above we were personally presonant that he executed the same as his	ent and did see him sign a	ual described in this assignment, that on the date and execute this assignment and that he uses and purposes set forth.
	Witness:	(Signature of Witness)		of er Kols d Name of Witness)
	Witness:	(Neigels leis h. Sa (Post Office Address of Witness (Signature of Witness)	7)	Trasser GENTANY If Stolt I Name of Witness)
		Klara - Ziegler - 1	Bog cn 11; B-8	81739 München

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Page 2 of 2

Joint

ASSIGNMENT OF PATENT APPLICATION

Docket No. TNL A-1815P

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Title: Fas	t Decimenter-L	evel GNSS	Positioning	
Piline datas	17 1 1 2000	6 : 13	60/792 911 · ar	

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(Junjie L	IU)		
(0 ,	(Signature of Assignor a	s written above)	(Place and Date of Signing)
	OWN, that <u>Junjie LIU</u> is known to us t		escribed in this assignment, that on the execute this assignment and that he
	ed to us that he executed the same as his free		uses and purposes set forth.
	* * *		uses and purposes set forth.
acknowledg	* * *	act and deed for the	uses and purposes set forth. d Name of Witness)
acknowledg	ed to us that he executed the same as his free	act and deed for the	
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	(Post Office Address of Witness)
Witnes	(Signature of Witness)	(Printed Name of Witness)
	(Post Office Address of Witness)
(Peter	Iau WEST) (Signature of Assignor as	s written above) (Place and Date of Signing)
signing	NOWN, that <u>Peter Ian WEST</u> is known to indicated above we were personally present an	o us to be the individual described in this assignment, that on the date of d did see him sign and execute this assignment and that he ee act and deed for the uses and purposes set forth.
Witness	(Signature of Witness)	(Printed Name of Witness)
Witness	(Post Office Address of Witness)	PLACE, KAINOI, NZ Peter France (Printed Name of Witness) Chiddurd, NZ
(Soere	u Ulf KLOSE) (Signature of Assignor as	s written above) (Place and Date of Signing)
of signir	NOWN, that <u>Soeren Ulf KLOSE</u> is known ng indicated above we were personally present	to us to be the individual described in this assignment, that on the date and did see him sign and execute this assignment and that he ee act and deed for the uses and purposes set forth.
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	(Post Office Address of Witness)	
	: (Signature of Witness)	(Printed Name of Witness)
Witness		

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PATENT REEL: 025017 FRAME: 0888

RECORDED: 09/21/2010

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