

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>Ralph M Kling</td><td>01/11/2008</td></tr><tr><td>Darren S Liccardo</td><td>01/11/2008</td></tr><tr><td>Michael J Grimmer</td><td>01/11/2008</td></tr></tbody></table>		Name	Execution Date	Ralph M Kling	01/11/2008	Darren S Liccardo	01/11/2008	Michael J Grimmer	01/11/2008
Name	Execution Date								
Ralph M Kling	01/11/2008								
Darren S Liccardo	01/11/2008								
Michael J Grimmer	01/11/2008								
RECEIVING PARTY DATA									
Name:	Crossbow Technology, Inc.								
Street Address:	4145 North First Street								
City:	San Jose								
State/Country:	CALIFORNIA								
Postal Code:	95134								
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>12013860</td></tr></tbody></table>		Property Type	Number	Application Number:	12013860				
Property Type	Number								
Application Number:	12013860								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	18856-13686								
NAME OF SUBMITTER:	Dohyun Ahn								
Total Attachments: 4 source=13686_assignment#page1.tif source=13686_assignment#page2.tif									

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## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to Crossbow Technology Inc., a California corporation, having a place of business at 4145 North First Street, San Jose, CA 95134, ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(b) or non-provisional application filed under 35 U.S.C. §111(a) and entitled **ENHANCING RECEPTION OF SIGNALS IN GLOBAL POSITIONING SYSTEM (GPS) RECEIVER MODULE** ("APPLICATION"), which:

☐ is to be filed herewith.

☒ was filed on 1/14/08, and now bears U.S. application serial number 12/013,860.

☐ The APPLICATION claims priority from [a provisional/foreign application], filed on \_\_\_\_\_, now bearing [Country] application serial number \_\_\_\_\_.

2. The entire worldwide right, title, and interest in and to:  
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION;  
(c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not

Title: Enhancing Reception of Signals in Global Positioning System  
(GPS) Receiver Module  
Filed: January 14, 2008  
Application No.: 12/013,860

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hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that 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.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature \_\_\_\_\_

Date of Signature \_\_\_\_\_

Ralph M. Kling  
Ralph M. Kling

1/11, 2008

State of California  
County of Santa Clara

On Jun 11<sup>th</sup>, 2008 before me, Atosa Vardeh personally appeared  
[DATE] [NOTARY PUBLIC]

\_\_\_\_\_ personally known to me or proved to me on the basis of satisfactory

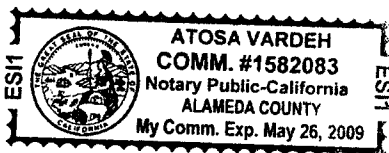
Ralph M. Kling

evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Atosa Vardeh

Notary Seal

Notary



Title: Enhancing Reception of Signals in Global Positioning System  
(GPS) Receiver Module  
Filed: January 14, 2008  
Application No.: 12/013,860

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Name and Signature

Date of Signature

Darren S. Liccardo

Jan. 11, 2008

Darren S. Liccardo

State of California

County of San Joaquin

On Jan. 11<sup>th</sup>, 2008 before me, Atosa Vardeh personally appeared  
[DATE] [NOTARY PUBLIC]

Darren S. Liccardo personally known to me or proved to me on the basis of satisfactory

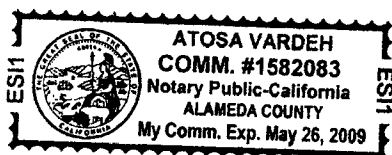
Darren S. Liccardo

evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Atosa Vardeh

Notary Seal

Notary



Title: Enhancing Reception of Signals in Global Positioning System  
(GPS) Receiver Module  
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Name and Signature

Michael J. Grimmer  
Michael J. Grimmer

Date of Signature

1/11, 2008

State of California  
County of Santa Clara

On Jan. 11<sup>th</sup>, 2008 before me, Atosa Vardeh personally appeared  
[DATE] [NOTARY PUBLIC]

Michael J. Grimmer personally known to me or proved to me on the basis of satisfactory  
evidence to be the person whose name is subscribed to the within instrument and acknowledged to me  
that he/she executed the same in his/her authorized capacity, and that by his/her signature on the  
instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Notary Seal

Atosa Vardeh  
Notary

