

## 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>Jeffrey F. Bull</td><td>01/16/2009</td></tr><tr><td>Matthew L. Ward</td><td>01/15/2009</td></tr></tbody></table>	Name	Execution Date	Jeffrey F. Bull	01/16/2009	Matthew L. Ward	01/15/2009	
Name	Execution Date						
Jeffrey F. Bull	01/16/2009						
Matthew L. Ward	01/15/2009						
RECEIVING PARTY DATA							
Name:	TruePosition, Inc.						
Street Address:	1000 Chesterbrook Boulevard						
City:	Berwyn						
State/Country:	PENNSYLVANIA						
Postal Code:	19312						
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>12346598</td></tr></tbody></table>	Property Type	Number	Application Number:	12346598			
Property Type	Number						
Application Number:	12346598						
CORRESPONDENCE DATA							
Fax Number:	(215)568-3439						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	(215) 568-3100						
Email:	lworkman@woodcock.com						
Correspondent Name:	Michael David Stein						
Address Line 1:	2929 Arch Street						
Address Line 2:	12th Floor						
Address Line 4:	Philadelphia, PENNSYLVANIA 19104-2891						
ATTORNEY DOCKET NUMBER:	TPI-0992						
NAME OF SUBMITTER:	Laura Rae Workman						
Total Attachments: 3 source=TPI-0992_Assignment#page1.tif source=TPI-0992_Assignment#page2.tif							

CH 12346598 \$40.00

500766096

PATENT  
REEL: 022169 FRAME: 0763



**DOCKET NO.: TPI-0992**

**PATENT  
Joint Inventors  
(Pending Application;  
Application No. Known)**

**ASSIGNMENT**

WHEREAS, we **Jeffrey F. Bull** and **Matthew L. Ward**, hereinafter referred to as the assignors, residing respectively at **100 Aspen Court, Chalfont, Pennsylvania 18914**, and **363 Woodlyn Drive, Collegeville, Pennsylvania 19436**, are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Application No. **12/346,598**, filed **December 30, 2008**, entitled **"INTERFERENCE DETECTION, CHARACTERIZATION AND LOCATION IN A WIRELESS COMMUNICATIONS OR BROADCAST SYSTEM;"** and

WHEREAS, **TruePosition, Inc.**, hereinafter referred to as the assignee, of **1000 Chesterbrook Boulevard, Berwyn, Pennsylvania 19312**, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound hereby, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, including the full right to sue for and collect damages for past violations of provisional rights having arisen from any publication of said application or any continuations, divisions, or renewals of or substitutes for said application. We further assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful

DOCKET NO.: TPI-0992

**PATENT**  
**Joint Inventors**  
**(Pending Application;**  
**Application No. Known)**

papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

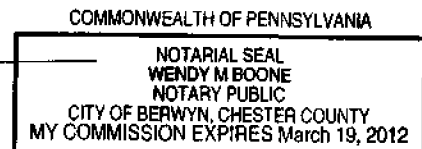
January 16, 2009  
Date

Jeffrey F. Bull (L.S.)  
Jeffrey F. Bull

STATE OF Pennsylvania :  
: SS  
COUNTY OF Chester :

On this 16 day of January, year of 2009, before me personally came the above named **Jeffrey F. Bull**, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

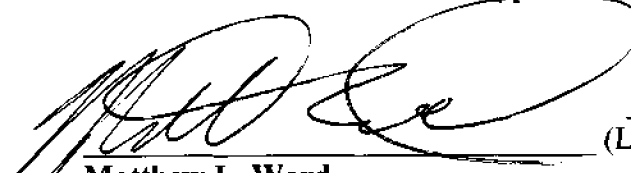
Wendy M. Boone  
Notary Public



DOCKET NO.: TPI-0992

PATENT  
Joint Inventors  
(Pending Application;  
Application No. Known)

1-15-09  
Date

  
Matthew L. Ward (L.S.)

STATE OF Pennsylvania :  
: SS  
COUNTY OF Chester :

On this 15 day of January, year of 2009, before me personally came the above named **Matthew L. Ward**, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.

  
Notary Public

COMMONWEALTH OF PENNSYLVANIA  
NOTARIAL SEAL  
WENDY M BOONE  
NOTARY PUBLIC  
CITY OF BERWYN, CHESTER COUNTY  
MY COMMISSION EXPIRES March 19, 2012