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| PATENT ASSIGNMENT COVER SHEET |
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EPAS ID: PAT3531415

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ROGER STUART MARSHALL | 09/15/2015 |
| GORDON JOHN HINES | 09/15/2015 |
| VICTOR BURTON | 09/15/2015 |
| THOMAS WOODROW NESMITH | 09/15/2015 |
| TODD POREMBA | 09/15/2015 |
| RECEIVING PARTY DATA | |
| Name: | TELECOMMUNICATION SYSTEMS, INC. |
| Street Address: | 275 WEST STREET |
| Internal Address: | SUITE 400 |
| City: | ANNAPOLIS |
| State/Country: | MARYLAND |
| Postal Code: | 21401 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14857477 |
| CORRESPONDENCE DATA | |
| Fax Number: | (216)621-4072 |
| <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> | |
| Phone: | 216-621-2234 |
| Email: | rkline@tarolli.com |
| Correspondent Name: | TAROLLI, SUNDHEIM, COVELL & TUMMINO LLP |
| Address Line 1: | 1300 EAST NINTH STREET, SUITE 1700 |
| Address Line 4: | CLEVELAND, OHIO 44114 |
| ATTORNEY DOCKET NUMBER: | TCS-024181 US ORD |
| NAME OF SUBMITTER: | CHRISTOPHER P. HARRIS |
| SIGNATURE: | /Christopher P Harris/ |
| DATE SIGNED: | 09/17/2015 |
| Total Attachments: 2 | |

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ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, TeleCommunication Systems, Inc., a corporation organized and existing under the laws of the State of Delaware, with a place of business at 275 West Street, Suite 400, Annapolis, MD 21401, United States of America, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TeleCommunication Systems, Inc., its successors and assigns, my/our entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, and extensions thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TeleCommunication Systems, Inc., as assignee of my entire right, title and interest.

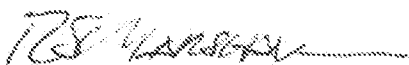
I also hereby sell and assign to TeleCommunication Systems, Inc., its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

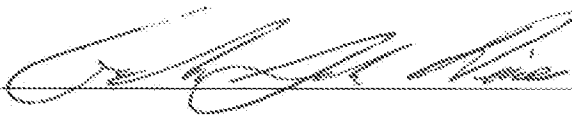
I hereby further agree that I will communicate to said TeleCommunication Systems, Inc., or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TeleCommunication Systems, Inc., its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

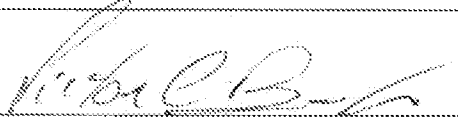
I hereby further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

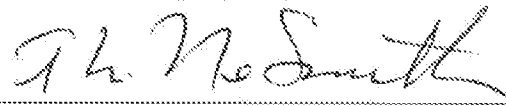
IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

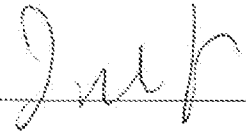
| TITLE | TRIGGER MECHANISM | | |
|--------------------------------|-------------------|-------------|-------------------|
| NONPROVISIONAL APPLICATION NO. | 14/857477 | FILING DATE | 17 September 2015 |

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| SIGNATURE OF INVENTOR |  |
| PRINTED NAME OF INVENTOR | ROGER STUART MARSHALL |
| DATE | 9/15/2015 |
| RESIDENCE (CITY AND STATE) | AUBURN, WA |

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| SIGNATURE OF INVENTOR |  |
| PRINTED NAME OF INVENTOR | GORDON JOHN HINES |
| DATE | Sept 15, 2015 |
| RESIDENCE (CITY AND STATE) | KIRKLAND, WA |

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| SIGNATURE OF INVENTOR |  |
| PRINTED NAME OF INVENTOR | VICTOR BURTON |
| DATE | 9/15/2015 |
| RESIDENCE (CITY AND STATE) | BELLEVUE, WA |

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|----------------------------|---|
| SIGNATURE OF INVENTOR |  |
| PRINTED NAME OF INVENTOR | THOMAS WOODROW NESMITH |
| DATE | 9/15/2015 |
| RESIDENCE (CITY AND STATE) | KENMORE, WA |

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|----------------------------|---|
| SIGNATURE OF INVENTOR |  |
| PRINTED NAME OF INVENTOR | TODD POREMBA |
| DATE | 9/15/2015 |
| RESIDENCE (CITY AND STATE) | SEATTLE, WA |