

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2739906

| 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>YINJUN ZHU</td> <td>09/13/2005</td> </tr> <tr> <td>GORDON JOHN HINES</td> <td>09/13/2005</td> </tr> <tr> <td>VICTOR BURTON</td> <td>09/13/2005</td> </tr> <tr> <td>HSIN-CHIH LIAO</td> <td>09/13/2005</td> </tr> </tbody> </table> | | Name | Execution Date | YINJUN ZHU | 09/13/2005 | GORDON JOHN HINES | 09/13/2005 | VICTOR BURTON | 09/13/2005 | HSIN-CHIH LIAO | 09/13/2005 |
| Name | Execution Date | | | | | | | | | | |
| YINJUN ZHU | 09/13/2005 | | | | | | | | | | |
| GORDON JOHN HINES | 09/13/2005 | | | | | | | | | | |
| VICTOR BURTON | 09/13/2005 | | | | | | | | | | |
| HSIN-CHIH LIAO | 09/13/2005 | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14188351</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 14188351 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 14188351 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: | | | | | | | | | | | |
| Phone: | 410-295-1426 | | | | | | | | | | |
| Email: | doneill@telecomsys.com | | | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | | | | | | | | | | | |
| Correspondent Name: | TELECOMMUNICATION SYSTEMS, INC. | | | | | | | | | | |
| Address Line 1: | 275 WEST STREET | | | | | | | | | | |
| Address Line 4: | ANNAPOLIS, MARYLAND 21401 | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 40182 | | | | | | | | | | |
| NAME OF SUBMITTER: | WILLIAM H. BOLLMAN | | | | | | | | | | |

| | |
|---|----------------------|
| Signature: | /William H. Bollman/ |
| Date: | 02/24/2014 |
| Total Attachments: 5 source=Assignment-40182#page1.tif source=Assignment-40182#page2.tif source=Assignment-40182#page3.tif source=Assignment-40182#page4.tif source=Assignment-40182#page5.tif | |

ASSIGNMENT AND AGREEMENT

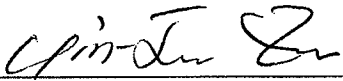
For value received, we, **ZHU, Yinjun**, of **Sammamish**, in the County of **King** and State of **Washington**, **HINES, Gordon John** of **Kirkland**, in the County of **King** and State of **Washington**, **BURTON, Victor** of **Bellevue**, in the County of **King** and the State of **Washington**, and **LIAO, Hsin-Chih**, of **Mill Creek**, in the County of **King** and State of **Washington** hereby sell, assign and transfer to **TeleCommunication Systems, Inc.**, a corporation of the State of **Maryland**, having an office at **275 West Street, Suite 400, Annapolis, Maryland, 21401, U.S.A.**, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **LOCATION SERVICE REQUESTS THROTTLING**, described in an application for Letters Patent of the United States, filed herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to **TeleCommunication Systems, Inc.** the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize **TeleCommunication Systems, Inc.** to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of **TeleCommunication Systems, Inc.** to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said invention be issued to **TeleCommunication Systems, Inc.** in the United States and in all countries foreign to the United States, or to such nominees as **TeleCommunication Systems, Inc.** may designate.

We agree that, when requested, we shall, without charge to **TeleCommunication Systems, Inc.** but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


Yinjun ZHU

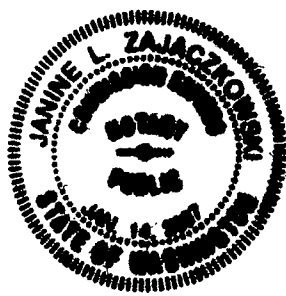
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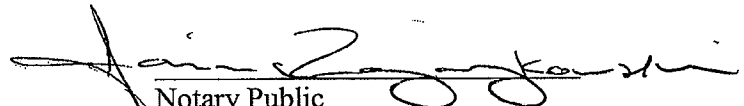
United States of America)


State of WA) ss.:

County of King)

On this 13th day of Sept., 2005, before me personally came **Yinjun ZHU**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.




Notary Public


Gordon John HINES

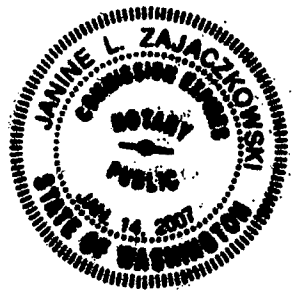
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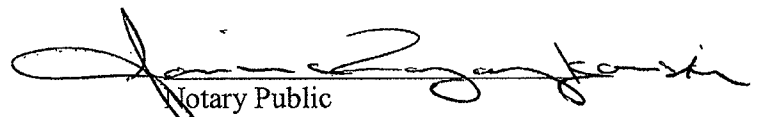
United States of America)

State of WA) ss.:

County of King)

On this 13th day of Sept, 2005, before me personally came **Gordon John HINES**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.




Notary Public

Victor C. Burton
Victor BURTON

Date: 09/13/2005

United States of America)

State of WA) ss.:

County of King)

On this 13th day of Sept., 2005, before me personally came **Victor BURTON**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



[Signature]
Notary Public

Hsin-Chih LIAO
Hsin-Chih LIAO

Date: 09/13/2005

United States of America)

State of WA) ss.:

County of King)

On this 13th day of Sept., 2005, before me personally came **Hsin-Chih LIAO**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Janine Zajackowski
Notary Public

TeleCommunication Systems, Inc.
275 West Street, Suite 400
Annapolis, MD 21401